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# **GLOSSARY AND ABBREVIATION OF TERMS**

APC Adelaide Plains Council

BAM Bushland Assessment Method

BCM Bushland Condition Monitoring

Declared Weed Weeds that are regulated under the Landscape South Australia Act 2019 due to their threat

to primary industries.

DEW Department of Environment and Water (South Australia) (formerly DEWNR)

DEWNR Department of Environment, Water and Natural Resources (South Australia)

E East

EBS Ecology Environment and Biodiversity Services Pty Ltd

GPS Global Positioning System

Ha Hectares

LGA Act Local Government Act 1999

LSA Act Landscapes South Australia Act 2019

N North

NA Northern Agricultural

NE North East

NPW Act National Parks and Wildlife Act 1972

NV Act Native Vegetation Act 1991

NVC Native Vegetation Council

S South

Site A roadside marker site

sp. Species

spp. Species plural

ssp. Subspecies

SW South West

Rd Road

RMS Roadside Marker Scheme

var. Variant

VCS Vegetation Condition Score

W West

WP Waypoint

WoNS Weeds of National Significance



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# **Attachments**

Attachment 1: Spatial data package (EX220815\_Attachment 1\_20230323\_RMSAllData\_Datapackage) – ZIP File.



## **EXECUTIVE SUMMARY**

EBS Ecology was engaged by Adelaide Plains Council (APC) to undertake vegetation condition assessments for 103 Roadside Marker Sites across the Adelaide Plains (Table 1 and Figure 2). This Project reports on the assessment of RMS Sites and additional roadsides, that have been identified as important throughout the Adelaide Plains Council Local Government Area (LGA).

Adelaide Plains Council (APC) requires Site surveying and an accompanying assessment report to be completed on 99 Roadside Marker System (RMS) Sites, four of which were inaccessible.

The objectives were as followed:

- GPS marking of Site, aerial map high-lighting location, photograph(s) of Site, Site number, road/reserve name, date of survey;
- List of plant species (native and threatening weeds) and their conservation rating (NPW Act and EPBC Act);
- Condition of the vegetation; and
- Site recommendations.

#### <u>Methods</u>

The field assessment was spread across a two-week period. The first field survey was conducted from 13 December to 16 December 2022, with the second field survey conducted from the 9 January to the 13 of January 2023 by Ecologists E. West and G. Wilson. The native vegetation condition of all Roadside Marker Sites was assessed in accordance with the Bushland Assessment Method (BAM) (NVC 2020a) (section 3.1.1).

#### **Survey findings**

Across the Adelaide Plains region, a total of six benchmark communities (Croft *et al.* 2005-2009, Appendix 9.3) were observed, this included:

- NA 4 Low Woodlands & Open Mallee with dense to mid-dense shrub &/or Spinifex and sedge understorey (three Sites);
- NA 5 Mallee & Woodlands with Open Chenopod and Sclerophyll Shrub understory (87 Sites);
- NA 7.1 Riparian Woodlands (one Site);
- NA 9.1 Shrublands and Low Shrublands on Coastal Dunes and Shell-grit Ridges (five Sites);
- NA 9.2 Low Woodlands on Coastal Dunes and Shell Grit Ridges (three Sites); and
- NA 10.2 Samphire low shrublands with infrequent inundation/Lower salinity (four Sites).

Out of 99 Roadside Marker Sites assessed, there were a total of 104 different vegetation associations. Out of these 104 Sites, the following condition was observed:

- 1 Site (Site 85a) had a High Vegetation Condition Score (VCS);
- 7 Sites had a Medium to High VCS;
- 56 Sites had a Medium VCS;
- 27 Sites had a Low to Medium VCS; and
- 13 Sites had a Low VCS



All of the 99 RMS Sites assessed, showed some sign of degradation, this included issues such as:

- Weed invasion;
- Inappropriate management by land holders (roadside verge planting and spray drift);
- Illegal dumping and roadside rubbish; and
- Introduced pests.



# 1 INTRODUCTION

Native roadside vegetation is considered to have a significant ecological value as these Sites withhold a majority of the remnant native vegetation, which may contain threatened plant species and ecological communities. As such, roadside vegetation is protected in South Australia under both the *Local Government Act* (LGA) 1999 and the *Native Vegetation* (NV) *Act 1991*. Currently, very limited native vegetation exists across South Australia due to historic clearing for agriculture, grazing and urbanisation. It is therefore essential that local councils maintain remaining pockets of native vegetation, as they provide habitat for local native flora and fauna species. Due to the fragmentation of road reserves across South Australia, it increases their exposure to threats such as weed, and pest, which eventually results in the degradation of the native vegetation. The Roadside Marker Scheme (RMS) was developed, to allow for survey and subsequent protection of ecologically significant roadside remnant vegetation.

EBS Ecology was engaged by Adelaide Plains Council (APC) to undertake vegetation condition assessments for 103 Roadside Marker Sites across the Adelaide Plains (Table 1 and Figure 2). This Project reports on the assessment of RMS Sites and additional roadsides, that have been identified as important throughout the Adelaide Plains Council Local Government Area (LGA). The Council's rural roadsides hold most of the remnant vegetation within the Adelaide Plains District, with a total of 103 roadside marker Sites. Currently, a roadside marker highlights the significance of indigenous flora indicted with a blue and white sign.

# 1.1 Objectives

Adelaide Plains Council (APC) requires Site surveying and an accompanying assessment report to be completed on 99 Roadside Marker System (RMS) Sites, four of which were inaccessible.

The objectives were as followed:

- GPS marking of Site, aerial map high-lighting location, photograph(s) of Site, Site number, road/reserve name, date of survey;
- List of plant species (native and threatening weeds) and their conservation rating (NPW Act and EPBC Act);
- Condition of the vegetation; and
- Site recommendations.

# 1.2 Project area

The location of the Roadside Marker Sites is depicted in Figure 2. The Project Area spans across 18 suburbs (Table 1 and Figure 2). The assessment consisted of both on-ground assessment and drive-by assessments. Four Sites (Site 24, 25, 71 and 84) were assessed on-ground, with the existing 95 assessed by drive-by assessments. Of these 103 Sites, the following four inaccessible Sites were excluded from the assessment:

- Roadside Marker Site 89;
- Roadside Marker Site 94 Roberts Road;
- Roadside Marker Site 96 Redbanks; and



Roadside Marker Site 103 – Jenkins Water Reserve.

Table 1. Summary of the Roadside Marker Sites.

Roadside Marker Site	Road	Suburb	Assessment	Section in the report
001	T junction Hamley Bridge Road (Rd) at Edward Rd	Barabba	Drive-by assessment	5.1.1
002	Fridge Rd at Brady Rd	Barabba	Drive-by assessment	5.1.2
003	Fridge Rd	Barabba	Drive-by assessment	5.1.3
004	Pinkerton Rd	Pinkerton Plains	Drive-by assessment	5.2.1
005	March and Davies Rd Intersection	Barabba	Drive-by assessment	5.1.4
006	Wilson Rd	Barabba	Drive-by assessment	5.1.5
007	In a paddock off Brady Rd	Barabba	On-ground assessment for about 100 meters.	5.1.6
800	Tank Rd at Murphy Rd and Fridge Rd at Murphy	Barabba	Drive-by assessment	5.1.7
009	Woolsheds Rd	Pinkerton Plains	Drive-by assessment	5.2.2
010	Boundary Rd	Reeves Plains	Drive-by assessment	5.3.1
011	Gawler Rd at Aunger North Rd	Reeves Plains	Drive-by assessment	5.3.2
012	Kenner Rd at Hall Rd (T- intersection)	Korunye	Drive-by assessment	5.4.1
013	Conroy Rd and Humphrey Rd	Reeves Plains	Drive-by assessment	5.3.3
014	Hall Rd	Korunye	Drive-by assessment	5.4.2
015	Sandpit Rd	Reeves Plains	Drive-by assessment	5.3.4
016	Richter Rd	Reeves Plains	Drive-by assessment	0
017	Verner Rd	Redbanks	Drive-by assessment	5.5.1
018	Fischer Rd	Reeves Plains	Drive-by assessment	5.3.6
019	Lynch Rd	Redbanks	Drive-by assessment	5.5.2
020	Helps Rd	Redbanks	Drive-by assessment	5.5.3
021	Hancock Rd	Redbanks	Drive-by assessment	5.5.4
022	Sharpe Rd at Pederick Rd	Lewiston	Drive-by assessment	5.6.1
23	Sharpe Rd at McPharlin Rd	Lewiston	Drive-by assessment	5.6.2
024	Oliver Rd	Reeves Plains	On-ground assessment	5.3.7
025	Oliver Rd	Reeves Plains	On-ground assessment	5.3.8
026	Boundary Rd	Reeves Plains	Drive-by assessment	5.3.9
027	Boundary Rd	Lewiston	Drive-by assessment	5.6.3
028	Cawrse Rd at Curnow Rd	Mallala	Drive-by assessment	5.7.1
029	Limerock Rd	Mallala	Drive-by assessment	5.7.2
030	Frost Rd	Mallala	Drive-by assessment	5.7.3
031	Franks Rd	Mallala	Drive-by assessment	5.7.4
032	Ross Rd	Mallala	Drive-by assessment	5.7.5
033	Tank Rd	Barabba	Drive-by assessment	5.1.8
034	Fidge Rd	Barabba	Drive-by assessment	5.1.9
035	Hall Rd	Mallala	Drive-by assessment	5.7.6
036	Earl Rd	Mallala	Drive-by assessment	5.7.7
037	Hall Rd	Mallala	Drive-by assessment	5.7.8
038	Ross Rd, Hall Rd and Calomba Rd	Mallala	Drive-by assessment	5.7.9
039	Hallion Rd at Hall Rd	Grace Plains	Drive-by assessment	5.8.1



Roadside Marker Site	Road	Suburb	Assessment	Section in the report
040	Tiller Rd	Grace Plains	Drive-by assessment	5.8.2
041	Tiller Rd at Franks Rd	Grace Plains	Drive-by assessment	5.8.3
042	Tiller Rd	Grace Plains	Drive-by assessment	5.8.4
043	Young Rd	Calomba	Drive-by assessment	5.9.1
044	Hallion Rd	Calomba	Drive-by assessment	5.9.2
045	Hallion Rd	Grace Plains	Drive-by assessment	5.8.5
046	Powerline Rd	Grace Plains	Drive-by assessment	5.8.6
047	Calomba Rd	Calomba	Drive-by assessment	5.9.3
048	Daniel Rd	Calomba	Drive-by assessment	5.9.4
049	Turner Rd and Old Dublin Rd	Mallala	Drive-by assessment	0
050	Johnsons Rd	Calomba	Drive-by assessment	5.9.5
051	Pritchard Rd	Windsor	Drive-by assessment	5.10.1
052	Carter Rd	Windsor	Drive-by assessment	5.10.2
053	Avon Rd	Windsor	Drive-by assessment	5.10.3
054	Carslake Rd	Dublin	Drive-by assessment	5.11.1
055	Cawrse Rd	Mallala	Drive-by assessment	5.7.11
056	Limerock Rd	Dublin	Drive-by assessment	5.11.2
057	Shannon Rd	Dublin/lower light	Drive-by assessment	5.11.3
058	Shannon Rd	Dublin	Drive-by assessment	5.11.4
059	Shannon Rd	Calomba	Drive-by assessment	5.9.6
060	Jenkin Rd	Calomba	Drive-by assessment	5.9.7
061	Long Plains Rd	Calomba/Windsor	Drive-by assessment	5.9.8
062	Long Plains Rd	Calomba/Long Plains	Drive-by assessment	5.9.9
063	Parker Rd	Calomba/Long Plains	Drive-by assessment	5.9.10
064	Lawrie Rd	Calomba	Drive-by assessment	5.9.11
065	Lyons Rd	Long Plains	Drive-by assessment	5.12.1
066	Wild Horse Plains Rd	Long Plains	Drive-by assessment	5.12.2
067	Ridley Rd	Long Plains	Drive-by assessment	5.12.3
068	Windsor Rd and Long plains Rd	Calomba/Windsor	Drive-by assessment	5.10.4
069	Port Wakefield Hwy (RHS)	Dublin	Drive-by assessment	5.11.5
070	Port Wakefield Hwy (RHS)	Dublin	Drive-by assessment	5.11.6
071	Seventh St, Dublin	Dublin	On-ground assessment	5.11.7
072	Port Wakefield Hwy (RHS)	Windsor	Drive-by assessment	5.10.5
073	Port Wakefield Hwy (LHS)	Windsor	,	
074 Bakers Rd		Windsor/long plains	Drive-by assessment	5.10.7
075	Sandy Brae Rd	Long Plains/Wild Horse Plains	Drive-by assessment	5.13.1
076	Wild Horse Plains Rd	Long Plains	Drive-by assessment	5.12.4
077	Slant Rd	Wild Horse Plains	Drive-by assessment	5.13.2
078	Webb Beach ( look to be walking along Dunes)	Webb Beach	Drive-by assessment	5.14.1
079	The Esplanade (Thompson Beach)	Parham	Drive-by assessment	5.15.1
080	Tickera Rd	Parham	Drive-by assessment	5.15.2



Roadside Marker Site	Road	Suburb	Assessment	Section in the report
081	Bubner Rd at Harris Rd	Dublin	Drive-by assessment 5.1	
082	Thompson Rd at	Dublin	Drive-by assessment	5.11.9
083	Shingleback Beach Rd	Dublin	Drive-by assessment	5.11.10
084	Port Prime Rd	Lower Light	On-ground assessment	5.16.1
085	North Tet and Beach Tet	Lower Light	Drive-by assessment	5.16.2
086	Thompsons Beach Rd	Lower Light	Drive-by assessment	5.16.3
087	The Esplanade (Thompson Beach)	Thompson Beach	Drive-by assessment	5.17.1
088	Off of Recreation Dr	Port Gawler	Drive-by assessment	5.18.1
089			Was not assessed due to development	
090	Middle Beach	Middle Beach	Drive-by assessment	5.19.1
091	Port Gawler Rd at Applebee Rd	Port Gawler	Drive-by assessment	5.18.2
092	Middle Beach Rd at Smith Rd	Middle Beach	Drive-by assessment	5.19.2
093	Off of Light Beach Rd (In the dunes)	Lower Light	Drive-by assessment 5.16.4	
094	Roberts Rd		Does not require surveying	
095	Day Rd	Reeves Plains	Drive-by assessment	5.3.10
096	Redbanks		Does not require surveying	
097	Hamley Bridge Rd	Barraba	Drive-by assessment 5.1.10	
098	Collins Rd	Barraba/ Grace Plains	e Drive-by assessment 5.1.11	
099	Port Wakefield Hwy (RHS)	Windsor	Drive-by assessment 5.10.8	
100	Lowey Rd	Windsor	Drive-by assessment	5.10.9
101	Port Wakefield Hwy (RHS)	Wild Horse Plains	Drive-by assessment 5.13.3	
102	Light River	Barraba	On-ground assessment 5.1.12	
103	Jenkins Water Reserve		Does not require surveying	





Figure 1. The Project Area.



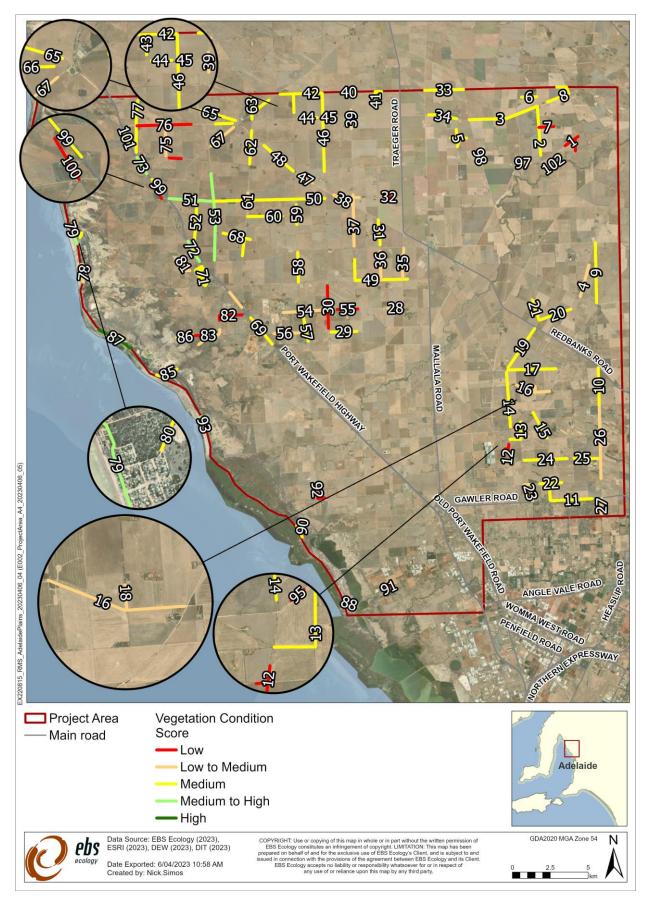


Figure 2. The Roadside Marker Sites across the Adelaide Plains Council Area.



# 2 BACKGROUND INFORMATION

# 2.1 Project details

#### 2.1.1 Administrative boundaries

Local government in South Australia is made up of 68 councils, or Local Government Areas (LGAs). The Project Area falls within the Adelaide Plains LGA. The Project Area is situated within the Northern and Yorke Landscape Management Region (LMR).

#### 2.1.2 Previous surveys conducted

Two surveys were previously conducted across the Adelaide Plains LGA, which included:

- J.A Pedler and W.E Matheson 1993. Remnant Vegetation in the Mallala District Council Area. Its Status and Conservation Strategies.
- Vicki Philpott 2004. District Council of Mallala Roadside Vegetation Drive-by Survey #60. Survey Findings and Recommendations to Council.

# 2.2 Environmental setting

#### 2.2.1 Interim Biogeographical Regionalisation of Australia

The Interim Biogeographical Regionalisation of Australia (IBRA) identifies geographically distinct bioregions based on common climate, geology, landform, native vegetation, and species information. The bioregions are further refined into subregions and environmental associations. The Project Area is located within the Eyre Yorke Block IBRA bioregion the St Vincent subregion and Mallala and Parham association (Table 2).

Table 2. IBRA bioregion, subregion, and environmental association environmental landscape summary.

#### Eyre Yorke Block IBRA bioregion

Archaean basement rocks and Proterozoic sandstones overlain by undulating to occasionally hilly calcarenite and calcrete plains and areas of aeolian quartz sands, with mallee woodlands, shrublands and heaths on calcareous earths, duplex soils and calcareous to shallow sands, now largely cleared for agriculture.

## St Vincent IBRA subregion

Most of this region consists of with calcrete development and shallow reddish earths. The plain is mainly dune free but isolated areas are overlain by low indistinct sand dunes. Near the Mt Lofty Ranges, the plains have a definite westerly gradient and merge eastwards with the alluvial fans from the Mt Lofty ranges. Moderately deep red mallee-yorrell (*Eucalyptus socialis*, *E. gracilis*) association occurs throughout the region with some woodland of *E. porosa* on the plains or *E. odorata* on the hills and footslopes. The subregion has been extensively cleared and sown to crops or exotic pastures so little of the natural vegetation remains. What does exist on road verges and a few isolated blocks.

Remnant vegetation	Approximately 8% (87,402 ha) of the subregion is mapped as remnant native vegetation, of which 5% (473 2ha) is formally conserved
Landform	Alluvial and littoral plains with NW-SE longitudinal dunes, mainly stabilized, in isolated areas.  Near the Mt Lofty Ranges, the plains have a detritic westerly gradient and merge eastwards with the alluvial fans of the Ranges.



Geology	Calcrete development; some variably oriented dunes in north west of unit beyond Port Augusta, calcareous loams clay rich soils, both plastic & cracking varieties.
Soil	Cracking clays, Brown calcareous earths, highly calcareous loamy earths, plastic saline clay soils, hard setting loamy soils with red clayey subsoils.
Vegetation	Mixed chenopod, samphire or forblands.
Conservation significance	125 species of threatened fauna, 103 species of threatened flora.  5 wetlands of national significance.
Mallala IBRA envir	onmental association
Remnant vegetation	Approximately 3% (5, 874 ha) of the association is mapped as remnant native vegetation, of which 2% (103 ha) is formally conserved
Landform	Undulating plain with occasional dunes.
Geology	Alluvium and sand.
Soil	Brown calcareous loams, hard pedal red duplex soils and brownish sands.
Vegetation	Grasslands.
Conservation	73 species of threatened fauna, 32 species of threatened flora.
significance	3 wetlands of national significance.
Parham IBRA envii	ronmental association
Remnant vegetation	Approximately 44% (16, 432 ha) of the association is mapped as remnant native vegetation, of which 7% (1,076 ha) is formally conserved
Landform	Coastal complex of tidal flats, dunes, swamps and sandy beaches, backed by a gently sloping plain.
Geology	Alluvium and sand.
Soil	Grey non-cracking plastic clays, grey duplex soils, whitish sands, grey calcareous loams and greyish calcareous sands.
Vegetation	Low woodland of mangrove, chenopod shrubland of samphire and open heath of coast daisy bush, coast beard heath and coastal wattle.
Conservation significance	71 species of threatened fauna, 14 species of threatened flora.  3 wetlands of national significance.

## 2.2.2 Pre-European vegetation

The APC rural roadsides now hold most of the remnant vegetation within the APC, which is highlighted by a roadside marker. Pre-European vegetation varied greatly across the Adelaide Plains. A total of nine pre-European communities were present, including: Herbland, Low Open Forest, Low Shrubland, Low Woodland, Mallee, Shrubland, Tall Shrubland, Tussock Grassland and Woodland (Figure 3).



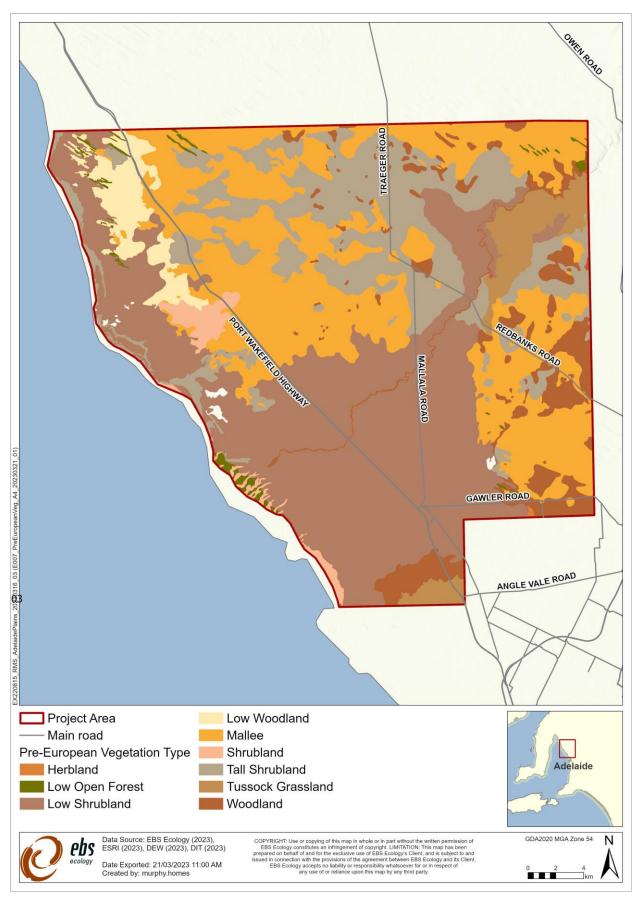


Figure 3. Pre-European vegetation located across the Project Area.



## 2.2.3 Threatened ecological communities

Three Threatened Ecological Communities (TEC) exists within the Northern and Yorke LMR, including:

- Peppermint Box (Eucalyptus odorata) Grassy Woodland Critically Endangered;
- Iron-grass Natural Temperate Grassland of South Australia Critically Endangered; and
- Subtropical and Temperate Coastal Saltmarsh Vulnerable.

Based on the Protected Matters Search (DCCEEW 2023), It is likely that the Critically Endangered Peppermint Box Grassy Woodland and the Vulnerable Subtropical and Temperate Coastal Saltmarsh exist within the Project Area. The Critically Endangered Iron-grass Natural Temperate Grassland of South Australia may exist within the Project Area.

#### 2.2.4 Watercourses and wetlands

Two major river systems flow within the APC: the Gawler River and the Light River (Figure 4). The Light River flows from the northeast slopes of the Mount Lofty Ranges to the southwest, eventually entering the St Vincent Gulf. The Gawler River is the confluence of the North Para and the South Para Rivers in the town of Gawler, flowing west into the Adelaide Plains and eventually draining into the mouth of the Adelaide International Bird Sanctuary National Park (Winaityinaityi Pangkara). Other watercourses that flow through the Project Area include:

- Salt Creek (Middle Beach);
- Baker Creek (Dublin);
- Thompson Creek; and
- Templers Creek (Reeves Plains).

The Clinton wetlands are Wetlands of National Significance and extend from the Clinton, through Clinton Conservation Park and south through Port Wakefield and Port Gawler. This wetland consists of mangrove/samphire estuarine area with many large tidal channels fringed by mangroves (Landscape South Australia Northern and Yorke 2023).

#### 2.2.5 Adelaide International Bird Sanctuary National Park – Winaityinaityi Pangkara.

A large part of the western section of the Project Area incorporates the Adelaide International Bird Sanctuary National Park(Winaityinaityi Pangkara). This sanctuary encompasses a total of 60 km of coastline north of Adelaide. The Bird Sanctuary is positioned at the southern end of the East Asian-Australasian Flyway (EAAF) and is one of the key feeding and roosting Sites for migratory birds that utilise the flyway each year (NPWSSA 2023).





Figure 4. Water courses located within the Project Area.



## 2.2.6 Fire history

Bushfires are an important part of the Australian environment and these ecosystems have evolved with fire. Many of Australia's native plants are not only prone to fire but require fire to regenerate (Geoscience Australia 2023). Since 2010, nine bushfires have been recorded within the APC (DEW 2023). One of the largest of those bushfires was the Pinery fire that burnt on the 25 of November in 2015, where approximately 78,257 hectares (ha) of land was burnt (Figure 5). The Pinery fire caused a significant loss of native flora and fauna. 20 Roadside Marker Sites across the APC were impacted by the 2015 Pinery bushfire. In order to rehabilitate native vegetation, post-fire on-ground works to stabilise soil with large machinery across the fire scar. Approximately 30,000 native plants, stakes and guards to assist in re-greening the fire scar (Zimmerman 2017).



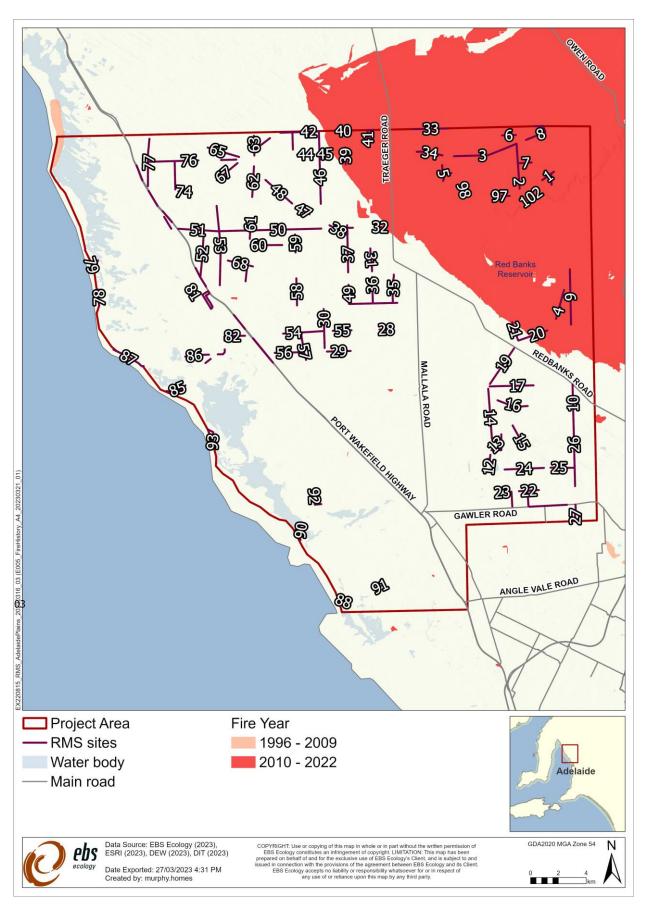


Figure 5. Fire history within the Project Area.



# 3 METHODS

# 3.1 Field survey

The field assessment was spread across a two-week period. The first field survey was conducted from 13 December to 16 December 2022, with the second field survey conducted from the 9 January to the 13 of January 2023 by Ecologists E. West and G. Wilson. The native vegetation condition of all Roadside Marker Sites was assessed in accordance with the Bushland Assessment Method (BAM) (NVC 2020a) (section 3.1.1).

#### 3.1.1 Vegetation condition

The condition of vegetation was surveyed according to the BAM. The Native Vegetation Council (NVC) is derived from the Nature Conservation Society of South Australia's Bushland Condition Monitoring (BCM) methodology (Croft *et al.* 2005-2009). This method is suitable for assessing vegetation located within the agricultural regions of South Australia. This method was developed for most vegetation assessments undertaken in the Native Vegetation Branch (NVB), including clearance/regulation applications and potential Significant Environmental Benefit (SEB) areas and Heritage Agreements. However, this method can be used to assess any vegetation for which biological/biodiversity value need to be determined.

For NVC BAM, three components of the biodiversity value of the any specific Site are generally measured and scored:

- Landscape context;
- · Vegetation condition; and
- Conservation significance.

The scores of these three components are combined to provide the Unit Biodiversity Score (UBS), which is then multiplied by size (hectares) of the Site to provide a Total Biodiversity Score (TBS). However, as this project is not a clearance/regulation application, only the Vegetation Condition component was utilised for these scope of works (Table 3), generating a score out of 80 for each Site. The Sites are scored based on several factors outlined in Table 4 and Table 5.

Table 3. Factors that influence the value in the BAM scoresheet (NVC 2020a).

Component	Factors	Score range
Landscape context	<ul> <li>Percentage vegetation cover within 5 km.</li> <li>Block shape (cleared perimeter: area ratio).</li> <li>Native vegetation rampancy of IBRA Association.</li> <li>Percentage of native vegetation protected within the IBRA Association; and</li> <li>The presence of riparian vegetation, swamps, or wetlands.</li> </ul>	1.00-1.25
Vegetation condition	<ul> <li>Native plant species diversity.</li> <li>Number of native lifeforms and their cover.</li> <li>Number of regenerating species.</li> <li>Weed cover and the level of invasiveness of dominant weed species.</li> <li>Mature tree health, fallen timber, hollow bearing trees, and tree canopy; and</li> </ul>	max 80.00



Component	Factors	Score range
	Native: exotic understorey biomass.	
Conservation significance	<ul> <li>The presence of federal or state listed threatened ecological communities, and their conservation rating.</li> <li>Number of threatened plant species recorded at the Site, and their conservation rating; and</li> <li>Number of threatened fauna species and their conservation rating or potential habitat occurs within the Site.</li> </ul>	1.00-1.50

Table 4. Vegetation condition scores (/80).

Vegetation condition component	Overview description
Native Plant Species Diversity	A count of the number of species present is compared to a "benchmark" value for that vegetation type. This is then allocated a score from 0-30.
Weed Score	The cover and abundance of all weed species present is recorded. The 5 weeds with the highest product of threat rating and cover are summed to provide a score. This is then compared to a "benchmark" value for that vegetation type and allocated a score from 0-15.
Native Plant Life Forms	The cover of different native plant life forms is compared to a "benchmark" value for that vegetation type. This is then allocated a score from 0-20.
Regenerating	The total number of woody native species in juvenile or seedling form is recorded and compared to a "benchmark" value for that vegetation type. This is then allocated a score from 0-12.
Native:exotic Understorey Biomass	The percentage of the total <i>vegetative biomass</i> of shrubs and groundcover plants < 2m high that is native is noted. This is then allocated a score from 0-5.
Mature Tree Score	The density of mature trees is an estimate percentage of mature trees present within the Site as a proportion of what would be expected within the benchmark community with a rating of 0-8.
Tree Canopy Cover Score	The area covered by the canopy of tree species that form part of the canopy or subcanopy and then a score from 0-5.
Hollow-bearing Trees Score	This score relates to the number of small and large tree hollows present, with a rating of 0-5.
Fallen timber/debris	This score relates to the amount of branch and trunk sized logs present, with a rating of 0-5.

Table 5. Cover Rating Scores for Introduced species.

Cover Rating		
not many, cover <1%	1	
Plentiful, cover <1%	1a	
Covering 1 - 5%	2	
Covering 5 – 25%	3	
Covering 26 –50%	4	



Cover Rating	
Covering 51 – 75%	5
Covering > 75%	6

# 3.2 Limitations

#### 3.2.1 Flora

At the time the survey was undertaken, not all plant species may have been visibly present (given it was undertaken within the summer months of December-January). Some species such as native orchids and lilies are particularly hard to detect when not in flower.

## 3.2.2 4.3.3 Spatial data limitations

All spatial data has been captured or converted to the following coordinate reference system:

Datum: Geocentric Datum of Australia 2020 (GDA2020).

Projection: Map Grid of Australia 2020 (MGA2020), Zone 53H.

All location coordinates listed in this report, are expressed using this system. Spatial data converted from other coordinate reference systems may have accuracy limitations.



# **4 LEGISLATIVE REQUIREMENTS**

## 4.1 Environment Protection and Biodiversity Conservation Act 1999

The Environment Protection and Biodiversity Conservation Act 1999 (EPBC Act) and the Environment Protection and Biodiversity Conservation Regulations 2000 provide a legal framework to protect and manage nationally and internationally important flora, fauna, ecological communities, and heritage places – defined in the Act as 'matters of national environmental significance' (MNES). The nine matters of national environmental significance protected under the Act are:

- 1. World Heritage properties
- 2. National Heritage places
- 3. Wetlands of international importance (listed under the RAMSAR Convention)
- 4. Listed threatened species and ecological communities
- 5. Migratory species protected under international agreements
- 6. Commonwealth marine areas
- 7. The Great Barrier Reef Marine Park
- 8. Nuclear actions (including uranium mines
- 9. A water resource, in relation to coal seam gas development and large coal mining development

Any action that has, will have, or is likely to have a significant impact on matters of national environmental significance requires referral under the EPBC Act. Substantial penalties apply for undertaking an action that has, will have or is likely to have significant impact on a matter of national environmental significance without approval.

The EPBC Act Significant Impact Guidelines provide overarching guidance on determining whether an action is likely to have a significant impact on a matter of national environmental significance. In terms of nationally threatened species, the guidelines define an action as likely to have a significant impact if there is a real chance or possibility that it will:

- Lead to a long-term decrease in the population
- Reduce the area of occupancy of the species
- Fragment an existing population
- Adversely affect critical habitat
- Disrupt breeding cycles
- Modify, destroy, remove, isolate, or decrease the availability or quality of habitat to the extent that the species is likely to decline
- Result in the establishment of invasive species that are harmful to the species
- Introduce disease that may cause the species to decline
- Interfere with the recovery of the species.



## 4.2 Native Vegetation Act 1991

The Project Area is in the district council of the Adelaide Plains, which is currently subject to the *Native Vegetation Act 1991* (NV Act). Native vegetation within the Project Area is protected under the NV Act and *Native Vegetation Regulations 2017*. Any proposed clearance of native vegetation in South Australia (unless exempt under the *Native Vegetation Regulations 2017*) is to be assessed against the NV Act Principles of Clearance and requires approval from the Native Vegetation Council (NVC).

Native vegetation refers to any naturally occurring local plant species that are indigenous to South Australia, from small ground covers and native grasses to large trees and water plants.

"Clearance", in relation to native vegetation, means:

- The killing or destruction of native vegetation.
- The removal of native vegetation.
- The severing of branches, limbs, stems, or trunks of native vegetation.
- The burning of native vegetation.
- Any other substantial damage to native vegetation, and includes the draining or flooding of land, or any other act or activity, that causes the killing or destruction of native vegetation, the severing of branches, limbs, stems or trunks of native vegetation or any other substantial damage to native vegetation.

Approval must be obtained before performing any activity that could cause substantial damage to native plants. This also applies to dead trees that may provide habitat for animals. These activities include but are not limited to:

- The cutting down, destruction or removal of whole plants.
- The removal of branches, limbs, stems, or trunks (including brush cutting and woodcutting).
- Burning.
- Poisoning.
- Slashing of understorey.
- Drainage and reclamation of wetlands.
- Grazing by animals (in some circumstances).
- Change of land use.

Under the NV Act, the NVC considers applications to clear native vegetation under ten principles. Native vegetation should not be cleared if it is significantly at odds with these principles:

- It contains a high level of diversity of plant species.
- It is an important wildlife habitat.
- It includes rare, vulnerable, or endangered plant species.
- The vegetation comprises a plant community that is rare, vulnerable, or endangered.
- It is a remnant of vegetation in an area which has been extensively cleared.
- It is growing in, or association with, a wetland environment.



- It contributes to the amenity of the area.
- The clearance of vegetation is likely to contribute to soil erosion, salinity, or flooding.
- The clearance of vegetation is likely to cause deterioration in the quality of surface or underground water.
- After clearance, the land is to be used for a purpose which is unsustainable.

### 4.3 National Parks and Wildlife Act 1972

Native plants and animals in South Australia are protected under the *National Parks and Wildlife Act 1972* (NPW Act). It is an offence to take a native plant or protected animal without approval. Threatened plant and animal species are listed in Schedules 7 (Endangered species), 8 (Vulnerable species) and 9 (Rare species) of the Act. Persons must not:

- Take a native plant on a reserve, wilderness protection area, wilderness protection zone, land reserved for public purposes, a forest reserve, or any other Crown land
- Take a native plant of a prescribed species on private land
- Take a native plant on private land without the consent of the owner (such plants may also be covered by the NV Act)
- Take a protected animal or the eggs of a protected animal without approval
- Keep protected animals unless authorised to do so
- Use poison to kill a protected animal without approval

# 4.4 Landscape of South Australia Act 2019

Under the *Landscape South Australia Act 2019* (LSA Act), new regional landscape boards have been established. The aim is to deliver landscape related services to regional communities, including effective water management, pest plant and animal control, soil and land management and support for broader sustainable primary production programs. Under the LSA Act, landholders have a legal responsibility to manage declared pest plants and animals and prevent land and water degradation.

### 4.5 Local Government Act 1999

All work within the road reserve requires written authority from the Council under Section 221 of the *Local Government Act 1999*. This includes removal and disturbance of vegetation and the control of pest plants and animals. Council can issue permits to property owners allowing them to use Unmade Public Road for business purposes for activities such as grazing or cropping or for access to their property.

Temporary and permanent alterations to a public road carried out by an applicant under Section 221 of the *Local Government Act 1999* are managed by the Construction or Modification to Council Land Process. Business activity on a public road – also known as "road rentals" under Section 222 of the Act, is managed by the Use an Unmade Public Road Process.



# **5 FIELD SURVEY RESULTS**

The 99 Roadside Marker Sites are discussed below and are divided into their associated suburb (section 5.1 to 5.19).

### 5.1 Barabba

A total of 12 Roadside Marker Sites are present within the Barabba suburb (Figure 6).

### 5.1.1 Roadside Marker Site 001 (Hamley Bridge and Edward Road (Rd))

One post was present at Site 1, which was located at the T-junction of Hamley Bridge and Edward Rd (Table 6). A total of 12 native species were identified with four species showing signs of natural regeneration. No species were listed as threatened under the NPW Act or the EPBC Act. A total of seven introduced species were observed, this includes two declared weeds, one of which is listed as a Weed on National Significance (WoNS) and four environmental weeds (Table 7). This Site received a low Vegetation Condition Score (VCS) of 17.10 out of 80 (Table 8).

Table 6. Summary of Roadside Marker Site 001.

Site	001
Road	Hamley Bridge Rd and Edward Rd.
Suburb	Barabba
IBRA Association	Mallala
Date surveyed	13/12/2022
	<b>Start:</b> 138.6192 - 34.3746 (E end of Hamley Bridge Rd)
	138.6171 -34.376 (RMS post)
	138.6171 -34.3831 (S end of Edwards Rd)
Longitude and Latitude	End: 138.6098 -34.3799 (W end of Hamley Bridge Rd)
Post present?	One
	Weed invasion, crop drift, dieback, mowing or slashing of roadside vegetation, tree
Threats	guards.
Vegetation Condition	Low – 17.10
Score	LOW - 17.10
Adjacent land use	Cropping/pasture
	Eucalyptus socialis and E. gracilis Mallee over Melaleuca lanceolata and Acacia
Vegetation association	ligulata.
	Northern Agricultural (NA) 5 – Mallee & Woodlands with Open Chenopod and
Benchmark Community	Sclerophyll Shrub understory
Photo points	T-junction of Hamley Bridge Rd and Edward Rd looking S





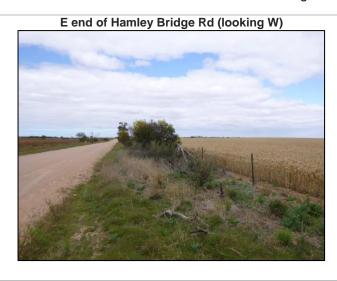
S end of Edward Rd (looking N)



W end of Hamley Bridge Rd (looking E)







Native				
Species Name	Common Name	AUS	SA	
Acacia ligulata	Umbrella Bush			
Acacia notabilis	Notable Wattle			
Callitris gracilis	Southern Cypress Pine			
Chloris truncata	Windmill Grass			
Dodonaea viscosa ssp.	Sticky Hop-bush			
Enchylaena tomentosa var. tomentosa	Ruby Saltbush			
Eremophila longifolia	Weeping Emubush			
Eucalyptus gracilis	Yorrell			
Eucalyptus socialis	Beaked Red Mallee			
Grevillea huegelii	Comb Grevillea			
Melaleuca lanceolata	Dryland Tea-tree			
Senna artemisioides ssp. petiolaris				
Introduced				
Species Name	Common Name	Declared	WoNS	Environmental Weed
Brassica sp.				
Cenchrus clandestinus	Kikuyu			Yes
Echium plantagineum	Salvation Jane	Yes		
Lolium perenne	Perennial Rye-grass			Yes
Lycium ferocissimum	African Boxthorn	Yes	Yes	
Solanum nigrum	Black Nightshade			Yes
Sonchus oleraceus	Common Sow-thistle			Yes

Table 8. Scores for Bushland Assessment Vegetation Condition Components for Roadside Marker Site 1.

Attribute	Score
Native Plant Species Diversity	15/30
Weeds	5/15
Native Plant Life forms	8/20
Regenerating	3/12
Native: Exotic Understorey Biomass	1/5
Tree Canopy cover	1/5
Hollow-bearing tree	4/5
Fallen Timber/debris	4/5



Attribute	Score
Mature Tree	2/8
TOTAL VEGETATION CONDITION SCORE	17.10/80

### 5.1.2 Roadside Marker Site 002 (Brady Rd)

One post was present at Site 2, which was located at the western side on the southern end of Brady Rd (Table 9). A total of 17 native species were identified, with one species naturally regenerating (*Eucalyptus socialis*). No species were listed as threatened under the NPW Act or the EPBC ACT. Nine introduced species were observed, this included three declared (all WoNS) and four environmental weeds (Table 10). This Site received a low-medium VCS of 34.53 out of 80 (Table 11).

Table 9. Summary of Roadside Marker Site 002.

Table 5. Guillilary of Roads	ide marker one ooz.		
Site	002		
Road	Fidge Rd and Brady Rd		
Suburb	Barabba		
IBRA Association	Mallala		
Date surveyed	13/12/2022		
	<b>Start:</b> 138.5921 -34.3851 (S end on the W side of Brady Rd).		
Longitude and Latitude	<b>End:</b> 138.5823 -34.3584 (W end of Fidge Rd).		
Post present?	One (S end on the W side of Brady Rd).		
Threats	Weed invasion, crop drift, dieback.		
Vegetation Condition			
Score	Medium - 34.53		
Adjacent land use	Cropping/pasture		
Vegetation association	Eucalyptus odorata Mallee over Acacia ligulata and +/- Myoporum platycarpum		
	NA 5 – Mallee & Woodlands with Open Chenopod and Sclerophyll Shrub		
Benchmark Community	understory		
	W side on the S end of Brady Rd (looking N)		
Photo points			



# N end of Brady Rd



W end of Fidge Rd on the S side



W end of Fidge Rd on the N side





Table 10. Flora Species List at Roadside Marker Site 002.

Native				
Species Name	Common Name	AUS	SA	
Acacia ligulata	Umbrella Bush			
Acacia notabilis	Notable Wattle			
Acacia oswaldii	Umbrella Wattle			
Alectryon oleifolius ssp.				
canescens	Bullock Bush			
Dianella sp.	Flax-lily			
Enchylaena tomentosa var.				
tomentosa	Ruby Saltbush			
Eucalyptus odorata	Peppermint Box			
Eucalyptus socialis ssp.	Beaked Red Mallee			
Grevillea huegelii	Comb Grevillea			
Maireana brevifolia	Short-leaf Bluebush			
Melaleuca lanceolata	Dryland Tea-tree			
Myoporum platycarpum ssp.	False Sandalwood			
Pittosporum angustifolium	Native Apricot			
Rhagodia parabolica	Mealy Saltbush			
Santalum acuminatum	Quandong			
Senna artemisioides ssp.				
petiolaris x ssp. sturtii	Desert Senna			
Senna artemisioides ssp. X				
coriacea	Broad-leaf Desert Senna			
Introduced				
Species Name	Common Name	Declared	WoNS	Environmenta Weed
Aira sp.	Hair-grass			
Asparagus asparagoides f.	Bridal Creeper	Yes	Yes	
Echium plantagineum	Salvation Jane	Yes	Yes	
Ehrharta calycina	Perennial Veldt Grass			Yes
Lycium ferocissimum	African Boxthorn	Yes	Yes	
Malva sp.	Mallow			
Schinus molle	Pepper-tree			Yes
Solanum nigrum	Black Nightshade			Yes
Sonchus oleraceus	Common Sow-thistle			Yes

Table 11. Scores for Bushland Assessment Vegetation Condition Components for Roadside Marker Site 002.

Attribute	Score
Native Plant Species Diversity	15/30
Weeds	8/15
Native Plant Life forms	12/20
Regenerating	6/12
Native: Exotic Understorey Biomass	3/5
Tree Canopy cover	3/5
Hollow-bearing tree	3/5
Fallen Timber/debris	3.5/5
Mature Tree	3/8
TOTAL VEGETATION CONDITION SCORE	34.53/80



### 5.1.3 Roadside Marker Site 003 (Fidge Rd)

One post was present at Site 3, which was located at the T-junction of Hamley Bridge and Edward Rd (Table 12). A total of 14 native species were identified, with one species regenerating (*Eucalyptus socialis*). No species are s listed as threatened under the NPW Act or the EPBC Act. A total of 11 introduced species, three of these species are declared and six are environmental weeds (Table 7). This Site received a Vegetation Condition Score (VCS) of 35.20 out of 80, reflecting a low VCS.

Table 12. Summary of Roadside Marker Site 003.

iside Marker Site 003.
003
Fidge Rd
Barabba
13/12/2022
<b>Start:</b> 138.5852 -34.3577 (W end on the )
End: 138.5414 -34.363 (W end of Fidge Rd)
One
Weed invasion, crop drift.
Medium - 35.20
Cropping/pasture
Eucalyptus odorata Mallee over Acacia notabilis and Senna artemisioides ssp. X coriacea.
NA 5 – Mallee & Woodlands with Open Chenopod and Sclerophyll Shrub understory
E side of Fidge Road on the W End (looking south)  W End (looking east) of Fidge Rd on the N side





W End (looking east) of Fidge Rd on the S side



Table 13. Flora Species List at Roadside Marker Site 003.

Native				
Species Name	Common Name	AUS	SA	
Acacia notabilis	Notable Wattle			
Acacia oswaldii	Umbrella Wattle			
Alectryon oleifolius ssp. canescens	Bullock Bush			
Austrostipa sp.	Spear-grass			
Bursaria spinosa ssp. spinosa	Sweet Bursaria			
Dianella sp.	Flax-lily			
Enchylaena tomentosa var.	Ruby Saltbush			
Eucalyptus odorata	Peppermint Box			
Eucalyptus socialis ssp. socialis	Beaked Red Mallee			
Maireana brevifolia	Short-leaf Bluebush			
Rhagodia parabolica	Mealy Saltbush			
Rytidosperma sp.	Wallaby-grass			
Senna artemisioides ssp. X coriacea	Broad-leaf Desert Senna			
Vittadinia sp.	New Holland Daisy			
Introduced				
Species Name	Common Name	Declared	WoNS	Environmental Weed
Asparagus asparagoides f.	Bridal Creeper	Yes	Yes	
Avena barbata	Bearded Oat			Yes



Heliotropium europaeum	Common Heliotrope			Yes
Malva sp.	Mallow			
Marrubium vulgare	Horehound	Yes		
Reichardia tingitana	False Sowthistle			
Salvia verbenaca var.	Wild Sage			Yes
Schinus molle	Pepper-tree			Yes
Solanum elaeagnifolium	Silver-leaf Nightshade	Yes	Yes	
Solanum nigrum	Black Nightshade			Yes
Sonchus oleraceus	Common Sow-thistle			Yes

Table 14. Scores for Bushland Assessment Vegetation Condition Components for Roadside Marker Site 003.

Attribute	Score
Native Plant Species Diversity	18/30
Weeds	7/15
Native Plant Life forms	12/20
Regenerating	6/12
Native: Exotic Understorey Biomass	3/5
Tree Canopy cover	3/5
Hollow-bearing tree	3/5
Fallen Timber/debris	3/5
Mature Tree	2/8
TOTAL VEGETATION CONDITION SCORE	35.20/80

### 5.1.4 Roadside Marker Site 005 (March and Davies Rd Intersection)

No posts were present at Site 5 (Table 15). A total of 14 native species were identified, with one species showing natural regeneration (*Eucalyptus socialis*). No species are listed as threatened under the NPW Act or the EPBC Act. A total of 13 introduced species were observed with presence of both Environmental and Declared weeds (Table 7). This Site received a VCS of 31.63 out of 80, reflecting a low-medium VCS (Table 17).

Table 15. Summary of Roadside Marker Site 005.

Site	005
Road	March Rd and Davies Rd
Suburb	Barabba
Date surveyed	13/12/2022
	<b>Start:</b> 138.5392 -34.374 (E end of March Rd)
Langituda and Latituda	138.5277 -34.3736 (W end of March Rd)
Longitude and Latitude	138.532 -34.3686 (N end of Davies Rd)
	End: 138.5325 -34.3789 (S end of Davies Rd)
Posts present?	No
Threats	Weed invasion, crop drift, stockpiles of dirt.
Vegetation Condition	M. II
Score	Medium - 31.63
Adjacent land use	Cropping/pasture



	Adelaide Plains Council Roadside Marker Scheme Ecological Assessmen		
Vegetation association	Eucalyptus porosa Open Mallee over Acacia ligulata and A. notabilis		
Benchmark Community	NA 5 – Mallee & Woodlands with Open Chenopod and Sclerophyll Shrub understory		
	E end of March Rd (E side)		
	W end of March Rd (N side)		
Photo points			
	N end of Davies Rd (E side)		
	N end of Davies Rd (W side)		





S end of Davies Rd (W side)



S end of Davies Rd (E side)



Table 16. Flora Species List at Roadside Marker Site 005.

Native			
Species Name	Common Name	AUS	SA
Acacia ligulata	Umbrella Bush		
Acacia notabilis	Notable Wattle		
Adriana quadripartita	Coast Bitter-bush		
Austrostipa elegantissima	Feather Spear-grass		
Austrostipa sp.	Spear-grass		
Eremophila longifolia	Weeping Emubush		



Native				
Species Name	Common Name	AUS	SA	
Eucalyptus gracilis	Yorrell			
Eucalyptus oleosa ssp. ampliata				
Eucalyptus porosa	Mallee Box			
Maireana brevifolia	Short-leaf Bluebush			
Melaleuca lanceolata	Dryland Tea-tree			
Phragmites australis	Common Reed			
Pittosporum angustifolium	Native Apricot			
Rhagodia parabolica	Mealy Saltbush			
Senna artemisioides ssp.				
petiolaris				
Introduced				
Species Name	Common Name	Declared	WoNS	Environmental Weed
Asphodelus fistulosus	Onion Weed			Yes
Avena barbata	Bearded Oat			Yes
Brassica sp.				
Brassica tournefortii	Wild Turnip			Yes
Bromus sp.	Brome			
Carthamus sp.				
Echium plantagineum	Salvation Jane	Yes		
Marrubium vulgare	Horehound	Yes		
Mesembryanthemum		Yes		Vas
Mesembryanthemum crystallinum	Common Iceplant	Yes		Yes
Mesembryanthemum crystallinum Reichardia tingitana	Common Iceplant False Sowthistle	Yes		1.00
Mesembryanthemum crystallinum Reichardia tingitana Salvia verbenaca var.	Common Iceplant False Sowthistle Wild Sage			Yes
Mesembryanthemum crystallinum Reichardia tingitana	Common Iceplant False Sowthistle	Yes	Yes	

Table 17. Scores for Bushland Assessment Vegetation Condition Components for Roadside Marker Site 005.

Attribute	Score
Native Plant Species Diversity	18/30
Weeds	5/15
Native Plant Life forms	12/20
Regenerating	6/12
Native: Exotic Understorey Biomass	2/5
Tree Canopy cover	3/5
Hollow-bearing tree	3/5
Fallen Timber/debris	4/5
Mature Tree	1/8
TOTAL VEGETATION CONDITION SCORE	31.63/80

### 5.1.5 Roadside Marker Site 006 (Wilson Rd)

Only stakes with no signs were present at Site 6 (Table 18). A total of 12 native species were identified at Site 6, with numerous species showing natural regeneration. No species are listed as threatened under the NPW Act or the EPBC Act. A total of 11 introduced species were observed, this includes four declared weeds (one WoNS) weeds and five environmental (Table 19). This Site received a VCS of 41.10 out of 80, reflecting a medium VCS (Table 20).



Table 18. Summary of Roadside Marker Site 006.

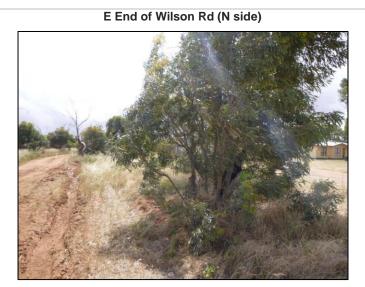
Site	006	
Road	Wilson Rd	
Suburb	Barabba	
Date surveyed	13/12/2022	
Langitude and Latitude	Start: 138.5901 -34.3504 (E end of Wilson Rd)	
Longitude and Latitude	End: 138.5793 -34.3503 (W end of Wilson Rd)	
Posts present?	No, only stakes.	
Threats	Weed invasion, crop drift, non-indigenous eucalyptus plantings and fire scar.	
Vegetation Condition Score	Medium - 41.10	
Adjacent land use	Cropping/pasture, residential.	
Vegetation association	Eucalyptus porosa and E.odorata over Acacia notabilis and Senna spp.	
Benchmark Community	NA 5 – Mallee & Woodlands with Open Chenopod and Sclerophyll Shrub understory	
	W end of Wilson Rd (S side)	



# Photo points







E End of Wilson Rd (S side)



Table 19. Flora Species List at Roadside Marker Site 006.

Native				
Species Name	Common Name	AUS	SA	
Acacia oswaldii	Umbrella Wattle			
Austrostipa sp.	Spear-grass			
Eucalyptus brachycalyx	Gilja			
Eucalyptus odorata	Peppermint Box			
Eucalyptus porosa	Mallee Box			
Lomandra multiflora ssp.	Many-flower Mat-rush			
Myoporum platycarpum ssp.	False Sandalwood			
Pittosporum angustifolium	Native Apricot			
Rhagodia candolleana ssp.	Sea-berry Saltbush			
Rhagodia parabolica	Mealy Saltbush			
Santalum acuminatum	Quandong			
Senna artemisioides ssp. petiolaris				
Introduced				
Species Name	Common Name	Declared	WoNS	Environmental Weed
Asparagus asparagoides f.	Bridal Creeper	Yes	Yes	
Asphodelus fistulosus	Onion Weed			Yes



Avena barbata	Bearded Oat			Yes
Brassica sp.				Yes
Echium plantagineum	Salvation Jane	Yes		
Lycium ferocissimum	African Boxthorn	Yes	Yes	
Malva sp.	Mallow			
Reichardia tingitana	False Sowthistle			
Salvia verbenaca var.	Wild Sage			Yes
Solanum nigrum	Black Nightshade	Yes	Yes	
Sonchus oleraceus	Common Sow-thistle			Yes

Table 20. Scores for Bushland Assessment Vegetation Condition Components for Roadside Marker Site 006.

Attribute	Score
Native Plant Species Diversity	21/30
Weeds	8/15
Native Plant Life forms	12/20
Regenerating	6/12
Native: Exotic Understorey Biomass	3/5
Tree Canopy cover	4/5
Hollow-bearing tree	2/5
Fallen Timber/debris	4/5
Mature Tree	4/5
TOTAL VEGETATION CONDITION SCORE	41.10/80

### 5.1.6 Roadside Marker Site 007 (Off Brady Rd)

One posts was present at this the start of this Site. However, survey only extended to about 100 meters in (Table 21). A total of 10 native species were identified at Site 7, with numerous species showing natural regeneration. No species are listed as threatened under the NPW Act or the EPBC Act. A total of nine introduced species were observed, this included two declared weeds (both WoNS) and four environmental weeds (Table 22). This Site received a VCS of 18.03 out of 80, reflecting a low VCS.

Table 21. Summary of Roadside Marker Site 007.

Site	007
Road	Off Brady Rd – only went about 100 meters in.
Suburb	Barabba
Date surveyed	13/12/2022
	<b>Start:</b> 138.5913 -34.3686 (RMS post)
Longitude and Latitude	End: NA
Posts present?	One
Threats	Weed invasion.
Vegetation Condition Score	Low- 18.03
Adjacent land use	Cropping/pasture
Vegetation association	Eucalyptus socialis Mallee over Senna artemisioides ssp. petiolaris.



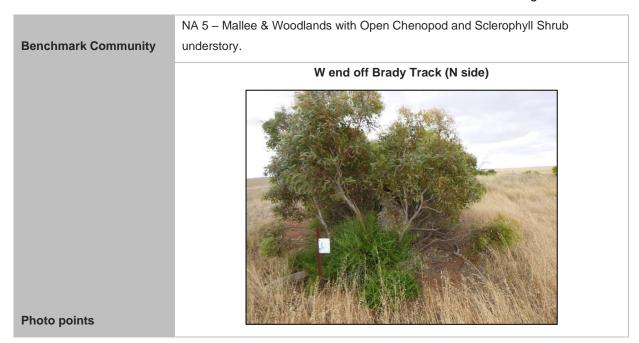


Table 22. Flora Species List at Roadside Marker Site 007.

Table 22. Flora Species List at Ro	daside Marker Site 607.			
Native				
Species Name	Common Name	AUS	SA	
Acacia ligulata	Umbrella Bush			
Acacia notabilis	Notable Wattle			
Austrostipa sp.	Spear-grass			
Enchylaena tomentosa var.	Ruby Saltbush			
Eucalyptus socialis ssp. socialis	Beaked Red Mallee			
Maireana brevifolia	Short-leaf Bluebush			
Pittosporum angustifolium	Native Apricot			
Rhagodia parabolica	Mealy Saltbush			
Senna artemisioides ssp. petiolaris				
Dianella revoluta var.				
Introduced				
Species Name	Common Name	Declared	WoNS	Environmental Weed
Asparagus asparagoides f.	Bridal Creeper	Yes	Yes	
Avena barbata	Bearded Oat			Yes
Echium plantagineum	Salvation Jane			
Ehrharta calycina	Perennial Veldt Grass			
Hordeum vulgare	Barley			Yes
Solanum elaeagnifolium	Silver-leaf Nightshade	Yes	Yes	
Solanum nigrum	Black Nightshade			Yes
Sonchus oleraceus	Common Sow-thistle			Yes
Trifolium arvense var. arvense	Hare's-foot Clover			

Table 23. Scores for Bushland Assessment Vegetation Condition Components for Roadside Marker Site 007.

Attribute	Score
Native Plant Species Diversity	12/30
Weeds	4.5/15
Native Plant Life forms	8/20
Regenerating	3/12
Native: Exotic Understorey Biomass	1/5



Attribute	Score
Tree Canopy cover	4/5
Hollow-bearing tree	2/5
Fallen Timber/debris	1/5
Mature Tree	2/8
TOTAL VEGETATION CONDITION SCORE	18.03/80

### 5.1.7 Roadside Marker Site 008 (Tank Rd, Fidge Rd and Murphy Rd)

No posts were observed during the assessment (Table 24). A total of 15 native species were identified at Site 8, with numerous species showing natural regeneration (Table 25). No species are listed as threatened under the NPW Act or the EPBC Act. A total of 11 introduced species were observed with presence, this includes four declared weeds (two WoNS) and six environmental weeds. Large infestations of the WoNS Asparagus asparagoides (Bridal Creeper) was observed under the canopy of trees. This Site received a VCS of 39.60 out of 80, reflecting a medium VCS (Table 26).

Table 24. Summary of Roadside Marker Site 008.

Site	008
Road	Tank Rd, Fidge Rd and Murphy Rd.
Suburb	Barabba
Date surveyed	13/12/2022
	Start: 138.6048 -34.3448 (W end of Tank Rd)
Longitude and Latitude	<b>End:</b> 138.598 -34.3536 (W end of Fidge Rd)
Posts present?	No
Threats	Weed invasion, drainage issues.
Vegetation Condition Score	Medium - 39.60
Adjacent land use	Cropping/pasture.
Vegetation association	Eucalyptus socialis Mallee over Maireana brevifolia and Senna artemisioides
	NA 5 – Mallee & Woodlands with Open Chenopod and Sclerophyll Shrub
Benchmark Community	understory.
Photo points	W end on the N side of Tank Rd (looking east)





W end of Fidge Rd (looking east)



Table 25. Flora Species List at Roadside Marker Site 008.

Native				
Species Name	Common Name	AUS	SA	
Acacia ligulata	Umbrella Bush			
Austrostipa elegantissima	Feather Spear-grass			
Austrostipa nodosa	Tall Spear-grass			
Austrostipa sp.	Spear-grass			
Dianella sp.	Flax-lily			
Eucalyptus gracilis	Yorrell			
Eucalyptus odorata	Peppermint Box			
Eucalyptus socialis ssp. socialis	Beaked Red Mallee			
Grevillea huegelii	Comb Grevillea			
Maireana brevifolia	Short-leaf Bluebush			
Rhagodia parabolica	Mealy Saltbush			
Rytidosperma caespitosum	Common Wallaby-grass			
Sclerolaena diacantha	Grey Bindyi			
Senna artemisioides ssp. petiolaris				
Zygophyllum				
aurantiacum/eremaeum	Shrubby Twinleaf			
Introduced				
Species Name	Common Name	Declared	WoNS	Environmental Weed
Asparagus asparagoides f.	Bridal Creeper	Yes	Yes	
Avena barbata	Bearded Oat			Yes



Centaurea calcitrapa	Star Thistle			Yes	
Introduced	Introduced				
Species Name	Common Name	Declared	WoNS	Environmental Weed	
Echium plantagineum	Salvation Jane	Yes			
Hordeum marinum	Sea Barley-grass			Yes	
Lythrum hyssopifolia	Lesser Loosestrife				
Marrubium vulgare	Horehound	Yes			
Salvia verbenaca var.	Wild Sage			Yes	
Solanum elaeagnifolium	Silver-leaf Nightshade	Yes	Yes		
Solanum nigrum	Black Nightshade			Yes	
Sonchus oleraceus	Common Sow-thistle			Yes	

Table 26. Scores for Bushland Assessment Vegetation Condition Components for Roadside Marker Site 008.

Attribute	Score		
Native Plant Species Diversity	18/30		
Weeds	5.5/15		
Native Plant Life forms	12/30		
Regenerating	9/12		
Native: Exotic Understorey Biomass	3/5		
Tree Canopy cover	4/5		
Hollow-bearing tree	3/5		
Fallen Timber/debris	3/5		
Mature Tree	3/5		
TOTAL VEGETATION CONDITION SCORE	39.60/80		

### 5.1.8 Roadside Marker Site 033 (Tank Rd)

Both post was observed along the W end and the E end of Tank Rd (Table 27). A total of nine native species were identified at Site 33, with numerous species showing natural regeneration. No species are listed as threatened under the NPW Act or the EPBC Act. A total of 20 introduced species were observed with presence of both Environmental and Declared weeds (Table 28). Infestations of the *Mesembryanthemum crystallinum* (Common Iceplant) was observed throughout this Site. This Site received a VCS of 29.21 out of 80, reflecting a low-medium VCS (Table 29).

Table 27. Summary of Roadside Marker Site 033.

Site	033
Road	Tank Rd
Suburb	Barabba
Date surveyed	13/12/2022
	<b>Start:</b> 138.51 -34.3449 (W end of Tank Rd)
Longitude and Latitude	End: 138.5379 -34.3449 (E end of Tank Rd)
Posts present?	Yes
Threats	Weed invasions
Vegetation Condition Score	Medium - 29.21



	Addition Figure Council Reducide Marker Continue Ecological Accessing in		
Adjacent land use	Cropping/pasture.		
Vegetation association	Eucalyptus brachycalyx Open Mallee over Maireana brevifolia		
	NA 5 – Mallee & Woodlands with Open Chenopod and Sclerophyll Shrub		
Benchmark Community	understory.		
	W end of Tank Rd on the N side		
	WENAD ONLY		
	E end of Tank Rd of the S side		
Photo points			

Table 28. Flora Species List at Roadside Marker Site 033.

Native				
Species Name	Common Name	AUS	SA	
Acacia ligulata	Umbrella Bush			
Acacia notabilis	Notable Wattle			
Austrostipa sp.	Spear-grass			
Enchylaena tomentosa var. tomentosa	Ruby Saltbush			
Eucalyptus brachycalyx	Gilja			
Maireana brevifolia	Short-leaf Bluebush			
Melaleuca acuminata ssp. acuminata	Mallee Honey-myrtle			
Melaleuca lanceolata	Dryland Tea-tree			
Pittosporum angustifolium	Native Apricot			
Introduced				
Species Name	Common Name	Declared	WoNS	Environmental Weed
Aira sp.	Hair-grass			
Arctotheca calendula	Cape Weed			Yes
Asphodelus fistulosus	Onion Weed			Yes
Brassica sp.				



Introduced				
Common Name	Common Name	Declared	WoNS	Environmental Weed
Conyza bonariensis	Flax-leaf Fleabane			Yes
Cynara cardunculus ssp. flavescens	Artichoke Thistle	Yes		
Echium plantagineum	Salvation Jane	Yes		
Heliotropium europaeum	Common Heliotrope			Yes
Hordeum distichon				
Lactuca serriola f.	Prickly Lettuce			Yes
Lolium perenne	Perennial Ryegrass			Yes
Lycium ferocissimum	African Boxthorn	Yes	Yes	
Malva sp.	Mallow			
Marrubium vulgare	Horehound	Yes		
Mesembryanthemum crystallinum	Common Iceplant			Yes
Oncosiphon suffruticosum	Calomba Daisy	Yes		
Reichardia tingitana	False Sowthistle			
Salvia verbenaca var.	Wild Sage			Yes
Solanum elaeagnifolium	Silver-leaf Nightshade	Yes	Yes	
Solanum nigrum	Black Nightshade			Yes
Sonchus oleraceus	Common Sow-thistle			Yes

Table 29. Scores for Bushland Assessment Vegetation Condition Components for Roadside Marker Site 033.

Attribute	Score		
Native Plant Species Diversity	18/30		
Weeds	4.5/15		
Native Plant Life forms	8/20		
Regenerating	3/12		
Native: Exotic Understorey Biomass	3/5		
Tree Canopy cover	3/5		
Hollow-bearing tree	3/5		
Fallen Timber/debris	4/5		
Mature Tree	2/8		
TOTAL VEGETATION CONDITION SCORE	29.21		

## 5.1.9 Roadside Marker Site 034 (Fidge Rd)

No posts were present at this Site (Table 30). A total of 20 native species were identified at Site 34, with numerous species showing natural regeneration. No species are listed as threatened under the NPW Act or the EPBC Act. A total of seven introduced species were observed this includes two declared weeds (one WoNS) and two environmental weeds (Table 31). Signs of native vegetation clearance was observed around the entrance of a property located long this road. The cleared remains have been stockpiled within the road reserve at this Site. This Site received a VCS 36.80 out of 80, reflecting a medium VCS (Table 32).

Table 30. Summary of Roadside Marker Site 034.

Site	034
Road	Fidge Rd
Suburb	Barabba



	Adelaide Plains Council Roadside Marker Scheme Ecological Assessme		
Date surveyed	13/12/2022		
	<b>Start:</b> 138.5124 -34.3596 (W end of Fidge Rd)		
Longitude and Latitude	<b>End:</b> 138.5325 -34.3623 (E end of Fidge Rd)		
Posts present?	No		
Threats	Weed invasions, clearance of native vegetation and creation of stock piles.		
Vegetation Condition Score	Medium - 36.80		
Adjacent land use	Cropping/pasture.		
Vegetation association	Eucalyptus odorata, E. gracilis Mixed Open Mallee over Acacia ligulata.		
	NA 5 – Mallee & Woodlands with Open Chenopod and Sclerophyll Shrub		
Benchmark Community	understory.		
	W end of Fidge Rd on S side		

W end of Fidge Rd on N side



Photo points



# E end of Fidge Rd on S side



E end of Fidge Rd on N side



Table 31. Flora Species List at Roadside Marker Site 034.

Native			
Species Name	Common Name	AUS	SA
Acacia acinacea	Wreath Wattle		
Acacia ligulata	Umbrella Bush		
Acacia notabilis	Notable Wattle		
Acacia oswaldii	Umbrella Wattle		
Adriana quadripartita	Coast Bitter-bush		
Alectryon oleifolius ssp.			
canescens	Bullock Bush		
Austrostipa nodosa	Tall Spear-grass		
Dianella revoluta var. revoluta	Black-anther Flax-lily		
Enchylaena tomentosa var. tomentosa	Ruby Saltbush		
Enneapogon avenaceus	Common Bottle-washers		
Eucalyptus gracilis	Yorrell		
Eucalyptus odorata	Peppermint Box		
Eucalyptus porosa	Mallee Box		
Eucalyptus socialis ssp.	Beaked Red Mallee		
Maireana brevifolia	Short-leaf Bluebush		
Pittosporum angustifolium	Native Apricot		
Rytidosperma caespitosum	Common Wallaby-grass		
Salsola australis	Buckbush		



Native					
Species Name	Common Name	AUS	SA		
Senna artemisioides ssp. petiolaris					
Senna artemisioides ssp. X coriacea	Broad-leaf Desert Senna				
Introduced					
Species Name	Common Name	Declared	WoNS	Environmental Weed	
Avena barbata	Bearded Oat			Yes	
Bromus diandrus	Great Brome				
Carthamus sp.					
Lycium ferocissimum	African Boxthorn	Yes	Yes		
Oncosiphon suffruticosum	Calomba Daisy	Yes			
Reichardia tingitana	False Sowthistle				
Sonchus oleraceus	Common Sow-thistle			Yes	

Table 32. Scores for Bushland Assessment Vegetation Condition Components for Roadside Marker Site 034.

Attribute	Score
Native Plant Species Diversity	21/30
Weeds	7/15
Native Plant Life forms	12/20
Regenerating	6/12
Native: Exotic Understorey Biomass	3/5
Tree Canopy cover	3/5
Hollow-bearing tree	3/5
Fallen Timber/debris	1/5
Mature Tree	3/5
TOTAL VEGETATION CONDITION SCORE	36.80

### 5.1.10 Roadside Marker Site 097 (Hamley Bridge Rd)

No posts were observed during the field survey (Table 33). A total of 12 native species were identified at Site 97, with numerous species showing natural regeneration. One species is listed as threatened under the NPW Act, the State Rare *Acacia iteaphylla* (Flinders Ranges Wattle). No species threatened under the EPBC Act were identified during the field survey. A total of nine introduced species were observed, this includes two declared weeds (one WoNS) and six environmental weeds (Table 34). The northern side of this Site was weedier than the southern side, with large infestations of declared weeds *Marrubium vulgare* (Horehound) and *Lycium ferocissimum* (African Boxthorn). This Site received a VCS of 22.29 out of 80, reflecting a low VCS (Table 35).

Table 33. Summary of Roadside Marker Site 097.

Site	097
Road	Hamley Bridge Rd.
Suburb	Barabba
Date surveyed	13/12/2022
Longitude and Latitude	<b>Start:</b> 138.577 -34.3895 (W end of Hamley Bridge Rd)



Adelaide Plains Council Roadside Marker Scheme Ecological Assessmen
End: 138.5842 -34.3896 (E end of Hamley Bridge Rd)
No
Weed invasions, crop drift, clearance around gates.
Low to Medium - 22.29
Cropping/pasture and residential properties.
Eucalyptus oleosa Mallee over Eremophila longifolia
NA 5 – Mallee & Woodlands with Open Chenopod and Sclerophyll Shrub understory.
W end of Hamley Bridge Rd (N side)
W end of Hamley Bridge Rd (S side)

E end of Hamley Bridge Rd (S side)



Photo points



E end of Hamley Bridge Rd (N side)



Table 34. Flora Species List at Roadside Marker Site 097.

Table 34. Flora Species List at Ro	badside Marker Site 097.			
Native				
Species Name	Common Name	AUS	SA	
Acacia iteaphylla	Flinders Ranges Wattle			R
Acacia ligulata	Umbrella Bush			
Allocasuarina verticillata	Drooping Sheoak			
Bursaria spinosa ssp. spinosa	Sweet Bursaria			
Distichlis distichophylla	Emu-grass			
Enchylaena tomentosa var. glabra	Smooth Ruby Saltbush			
Eucalyptus oleosa ssp. ampliata				
Eucalyptus porosa	Mallee Box			
Eucalyptus socialis ssp.	Beaked Red Mallee			
Melaleuca lanceolata	Dryland Tea-tree			
Senna artemisioides ssp. X coriacea	Broad-leaf Desert Senna			
Senna sp.	Senna			
Introduced				
Species Name	Common Name	Declared	WoNS	Environment al Weed
Asphodelus fistulosus	Onion Weed			Yes
Avena barbata	Bearded Oat			Yes
Brassica sp.				



Introduced				
Species Name	Common Name	Declared	WoNS	Environment al Weed
Cynodon dactylon var. dactylon	Couch			Yes
Lactuca serriola f. serriola	Prickly Lettuce			Yes
Marrubium vulgare	Horehound	Yes		
Salvia verbenaca var.	Wild Sage			Yes
Solanum elaeagnifolium	Silver-leaf Nightshade	Yes	Yes	
Solanum nigrum	Black Nightshade			Yes

Table 35. Scores for Bushland Assessment Vegetation Condition Components for Roadside Marker Site 097.

Attribute	Score
Native Plant Species Diversity	15/30
Weeds	9/15
Native Plant Life forms	8/20
Regenerating	3/12
Native: Exotic Understorey Biomass	2/5
Tree Canopy cover	3/5
Hollow-bearing tree	0/5
Fallen Timber/debris	1/5
Mature Tree	2/8
TOTAL VEGETATION CONDITION SCORE	22.29/80

## 5.1.11 Roadside Marker Site 098 (Collins Rd)

No posts were observed during the field survey (Table 36). A total of 19 native species were identified at Site 98, with numerous species naturally regenerating. No species threatened under the EPBC Act or NPW Act were identified during the field survey. A total of 13 introduced species were observed, which includes four declared weeds (two WoNS) with presence and five environmental weeds (Table 37). This Site received a VCS of 27.90 out of 80, reflecting a low to medium VCS (Table 38).

Table 36. Summary of Roadside Marker Site 098.

Site	098
Road	Collins Rd.
Suburb	Barabba
Date surveyed	13/12/2022
	<b>Start:</b> 138.549 -34.389 (S end)
Longitude and Latitude	End: 138.5471 -34.381 (N end)
Posts present?	No
Threats	Weed invasions, crop drift, clearance around gates.
Vegetation Condition Score	Low to Medium - 27.90
Adjacent land use	Cropping/pasture and residential properties.
	Eucalyptus porosa, E.odorata and E. phenax Mixed Mallee over Acacia ligulata
Vegetation association	and A. notabilis



# **Benchmark Community**

 $\mbox{NA 5}-\mbox{Mallee}$  & Woodlands with Open Chenopod and Sclerophyll Shrub understory.

# N end of Collins Rd (W side)



N end of Collins Rd (E side)



S end of Collins Rd (W side)



Photo points

S end of Collins Rd (E side)





Table 37. Flora Species List at Roadside Marker Site 098.

Native				
Species Name	Common Name	AUS	SA	
Acacia ligulata	Umbrella Bush			
Acacia notabilis	Notable Wattle			
Alectryon oleifolius ssp.				
canescens	Bullock Bush			
Allocasuarina verticillata	Drooping Sheoak			
Austrostipa sp.	Spear-grass			
Bursaria spinosa ssp. spinosa	Sweet Bursaria			
Distichlis distichophylla	Emu-grass			
Enchylaena tomentosa var.				
tomentosa	Ruby Saltbush			
Eucalyptus gracilis	Yorrell			
Eucalyptus odorata	Peppermint Box			
Eucalyptus oleosa				
Eucalyptus phenax ssp.				
Eucalyptus porosa	Mallee Box			
Maireana brevifolia	Short-leaf Bluebush			
Melaleuca lanceolata	Dryland Tea-tree			
Pittosporum angustifolium	Native Apricot			
Rhagodia parabolica	Mealy Saltbush			
Salsola australis	Buckbush			
Senna artemisioides ssp.				
petiolaris				
Introduced				
Species Name	Common Name	Declared	WoNS	Environment al Weed
Asphodelus fistulosus	Onion Weed			Yes
Avena barbata	Bearded Oat			Yes
Brassica sp.				
Bromus diandrus	Great Brome			
Cucumis myriocarpus ssp.				
myriocarpus	Paddy Melon			
Hordeum vulgare	Barley			Yes
Lycium ferocissimum	African Boxthorn	Yes	Yes	
Malva sp.	Mallow			
Marrubium vulgare	Horehound	Yes		
Olea europaea ssp.	Olive	Yes		
Solanum elaeagnifolium	Silver-leaf Nightshade	Yes	Yes	
Solanum nigrum	Black Nightshade			Yes
Sonchus oleraceus	Common Sow-thistle			Yes



Table 38. Scores for Bushland Assessment Vegetation Condition Components for Roadside Marker Site 098.

Attribute	Score
Native Plant Species Diversity	15/30
Weeds	4/15
Native Plant Life forms	12/20
Regenerating	6/12
Native: Exotic Understorey Biomass	1/5
Tree Canopy cover	3/5
Hollow-bearing tree	4/5
Fallen Timber/debris	3.5/5
Mature Tree	2/5
TOTAL VEGETATION CONDITION SCORE	27.09/80

### 5.1.12 Roadside Marker Site 102 (Light River)

No posts were observed during the field survey (Table 39). A total of 11 native species were identified at Site 102, with numerous species naturally regenerating. No species threatened under the EPBC Act or NPW Act were identified during the field survey. A total of 12 introduced species were observed, this includes three declared weeds (WoNS) and seven environmental weeds (Table 40). This Site received a VCS of 30.80 out of 80, reflecting a medium VCS (Table 41).

Table 39. Summary of Roadside Marker Site 102.

Site	102
Road	Light River
Suburb	Barabba
Date surveyed	13/12/2022
	Start: 138.5989 -34.3916 (SW end)
Longitude and Latitude	End: 138.6023 -34.3897 (NE end)
Posts present?	No
Threats	Weed invasions, litter.
Vegetation Condition Score	Medium - 30.80
Adjacent land use	Bushland, residential properties.
Vegetation association	Eucalyptus camaldulensis Open Woodland over Phragmites australis
Benchmark Community	NA 7.1 Riparian Woodlands
Photo points	W end (looking S of Light River)





E end (looking SW of Light River)



Table 40. Flora Species List at Roadside Marker Site 102.

Native					
Species Name	Common Name	AUS	SA		
Alectryon oleifolius ssp.					
canescens	Bullock Bush				
Austrostipa sp.	Spear-grass				
Bursaria spinosa ssp. spinosa	Sweet Bursaria				
Cyperus gymnocaulos	Spiny Flat-sedge				
Distichlis distichophylla	Emu-grass				
Duma florulenta	Lignum				
Eucalyptus camaldulensis ssp.	River Red Gum				
Juncus kraussii	Sea Rush				
Phragmites australis	Common Reed				
Samolus repens	Creeping Brookweed				
Tecticornia sp.	Samphire				
Introduced					
Species Name	Common Name	Declared	WoNS	Environment al Weed	
Avena barbata	Bearded Oat			Yes	
Cynara cardunculus ssp. flavescens	Artichoke Thistle	Yes			
Echium plantagineum	Salvation Jane	Yes			



Introduced				
Species Name	Common Name	Declared	WoNS	Environment al Weed
Foeniculum vulgare	Fennel			Yes
Hordeum vulgare	Barley			Yes
Lolium perenne	Perennial Ryegrass			Yes
Opuntia spp.	Prickly Pear	Yes	Yes	
Piptatherum miliaceum	Rice Millet			Yes
Salvia verbenaca var.	Wild Sage			Yes
Sonchus oleraceus	Common Sow-thistle			Yes
Trifolium arvense var. arvense	Hare's-foot Clover			
Vulpia sp.	Fescue			

Table 41. Scores for Bushland Assessment Vegetation Condition Components for Roadside Marker Site 102.

Attribute	Score		
Native Plant Species Diversity	14/30		
Weeds	7/15		
Native Plant Life forms	16/20		
Regenerating	4.5/12		
Native: Exotic Understorey Biomass	4/5		
Tree Canopy cover	2/5		
Hollow-bearing tree	1/5		
Fallen Timber/debris	1/5		
Mature Tree	2/5		
TOTAL VEGETATION CONDITION SCORE	30.80/80		



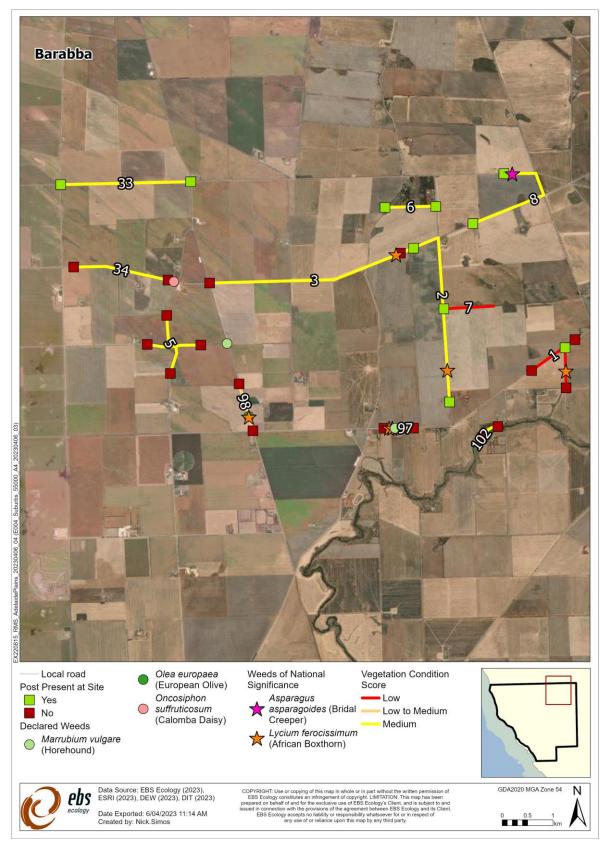


Figure 6. Roadside Marker Sites located on Barabba.



## 5.2 Pinkerton Plains

A total of two roadside marker Sites was assessed across Pinkerton Plains (Figure 7).

## 5.2.1 Roadside Marker Site 004 (Pinkerton Rd)

One post was present on the northern end of Pinkerton Plains Rd (Table 42). This Site had a large number of hares present within the area. A total of 17 native species were identified at Site 004, with numerous species naturally regenerating. No species threatened under the EPBC Act or NPW Act were identified during the field survey. A total of 10 introduced species were observed, this includes three declared weeds (all WoNS) and three Environmental weeds (Table 43). This Site received a VCS of 26.68 out of 80, reflecting a low-medium VCS (Table 44).

Table 42. Summary of Roadside Marker Site 004.

Table 42. Summary of Road	able 42. Summary of Roadside Marker Site 004.			
Site	004			
Road	Pinkerton Rd			
Suburb	Pinkerton Plains			
Date surveyed	11/01/2023			
Longitude and Latitude	<b>Start:</b> 138.6249 -34.4513 (N end of Pinkerton Rd, E side)			
	<b>End:</b> 138.6181 -34.4699 (S end of Pinkerton Rd – no post).			
Posts present?	One (N end of Pinkerton Rd, E side)			
Threats	Weed invasions, pests, dieback, old tree guards.			
Vegetation Condition Score	Low to medium - 26.68			
Adjacent land use	Cropping/pasture			
Vegetation association	Senna spp. Shrubland			
	NA 5 – Mallee & Woodlands with Open Chenopod and Sclerophyll Shrub			
Benchmark Community	understory.			
	N end of Pinkerton Rd (E side)			
Photo points	N end of Pinkerton Rd			





S end of Pinkerton Rd



Table 43. Flora Species List at Roadside Marker Site 004.

Native				
Species Name	Common Name	AUS	SA	
Acacia ligulata	Umbrella Bush			
Acacia notabilis	Notable Wattle			
Acacia oswaldii	Umbrella Wattle			
Austrostipa sp.	Spear-grass			
Bursaria spinosa ssp.	Bursaria			
Callitris gracilis	Southern Cypress Pine			
Dianella revoluta var.	-			
Enchylaena tomentosa var.	Ruby Saltbush			
Eremophila longifolia	Weeping Emubush			
Eucalyptus porosa	Mallee Box			
Eucalyptus sp.				
Melaleuca brevifolia	Short-leaf Honey-myrtle			
Melaleuca lanceolata	Dryland Tea-tree			
Pittosporum angustifolium	Native Apricot			
Rhagodia parabolica	Mealy Saltbush			
Rytidosperma sp.	Wallaby-grass			
Senna artemisioides ssp.	Desert Senna			
Senna artemisioides ssp. X				
coriacea .	Broad-leaf Desert Senna			
Alectryon oleifolius ssp.				
canescens	Bullock Bush			
Introduced				



Species Name	Common Name	Declared	WoNS	Environment al Weed
Aira sp.	Hair-grass			
Asparagus asparagoides f.	Bridal Creeper	Yes	Yes	
Avena barbata	Bearded Oat			Yes
Brassica sp.				
Heliotropium sp.	Heliotrope			
Lycium ferocissimum	African Boxthorn	Yes	Yes	
Piptatherum miliaceum	Rice Millet			Yes
Sisymbrium sp.	Wild Mustard			
Solanum elaeagnifolium	Silver-leaf Nightshade	Yes	Yes	
Sonchus oleraceus	Common Sow-thistle			Yes

Table 44. Scores for Bushland Assessment Vegetation Condition Components for Roadside Marker Site 004.

Attribute	Score
Native Plant Species Diversity	21/30
Weeds	8/15
Native Plant Life forms	12/20
Regenerating	6/12
Native: Exotic Understorey Biomass	2/5
Tree Canopy cover	1/5
Hollow-bearing tree	2/5
Fallen Timber/debris	1/5
Mature Tree	2/8
TOTAL VEGETATION CONDITION SCORE	26.68/80

### 5.2.2 Roadside Marker Site 009 (Woolsheds Rd)

Only one post was observed during the field survey on the southern end of Woolsheds Rd (Table 45). A total of 22 native species were identified at Site 9, with numerous species naturally regenerating. No species threatened under the EPBC Act or NPW Act were identified during the field survey. A total of 10 introduced species were observed, this included six environmental weeds, no Declared weeds were observed (Table 46). This Site received a Vegetation Condition Score (VCS) of 31.52 out of 80, reflecting a medium VCS (Table 47).

Table 45. Summary of Roadside Marker Site 009.

Site	009	
Road	Woolsheds	
Suburb	Pinkerton Plains	
Date surveyed	11/01/2023	
	Start: 138.6297 -34.4738 (S end)	
Longitude and Latitude	End: 138.6298 -34.4381 (N end)	
Posts present?	One (S end).	
Threats	Hard rubbish, crop drift, death of Callitris species, dust.	



	Adelaide Plains Council Roadside Marker Scheme Ecological Assessmen
Vegetation Condition Score	Medium - 31.52
Adjacent land use	Cropping/pasture and residential.
Vegetation association	Senna artemisioides ssp. X coriacea with Acacia spp. Shrubland
	NA 5 – Mallee & Woodlands with Open Chenopod and Sclerophyll Shrub
Benchmark Community	understory.
	S end of Woolsheds Rd (W side)
	Nand of Westshade Dd
	N end of Woolsheds Rd



Photo points

Table 46. Flora Species List at Roadside Marker Site 009.

Native				
Species Name	Common Name	AUS	SA	
Acacia notabilis	Notable Wattle			
Acacia oswaldii	Umbrella Wattle			
Acacia sp.	Wattle			
Alectryon oleifolius ssp. canescens	Bullock Bush			
Allocasuarina verticillata	Drooping Sheoak			
Austrostipa platychaeta	Flat-awn Spear-grass			
Austrostipa sp.	Spear-grass			



Native				
Species Name	Common Name	AUS	SA	
Bursaria spinosa ssp.	Bursaria			
Callitris gracilis	Southern Cypress Pine			
Dianella revoluta var.				
Enchylaena tomentosa var.	Ruby Saltbush			
Eremophila longifolia	Weeping Emubush			
Eucalyptus porosa	Mallee Box			
Exocarpos aphyllus	Leafless Cherry			
Lomandra effusa	Scented Mat-rush			
Melaleuca brevifolia	Short-leaf Honey-myrtle			
Melaleuca lanceolata	Dryland Tea-tree			
Pittosporum angustifolium	Native Apricot			
Rhagodia parabolica	Mealy Saltbush			
Rytidosperma sp.	Wallaby-grass			
Senna artemisioides ssp.	Desert Senna			
Senna artemisioides ssp. X				
coriacea	Broad-leaf Desert Senna			
Introduced				
Species Name	Common Name	Declared	WoNS	Environment al Weed
Aira sp.	Hair-grass			
Avena barbata	Bearded Oat			Yes
Brassica sp.				
Centaurea calcitrapa	Star Thistle			Yes
Pinus sp.	Pine			
Piptatherum miliaceum	Rice Millet			Yes
Schinus molle	Pepper-tree			Yes
Sisymbrium sp.	Wild Mustard			
Solanum nigrum	Black Nightshade			Yes
Sonchus oleraceus	Common Sow-thistle			Yes

Table 47. Scores for Bushland Assessment Vegetation Condition Components for Roadside Marker Site 009.

Attribute	Score
Native Plant Species Diversity	21/30
Weeds	9/15
Native Plant Life forms	12/20
Regenerating	3/12
Native: Exotic Understorey Biomass	3/5
Tree Canopy cover	2/5
Hollow-bearing tree	2/5
Fallen Timber/debris	1/5
Mature Tree	2/8
TOTAL VEGETATION CONDITION SCORE	31.52/80



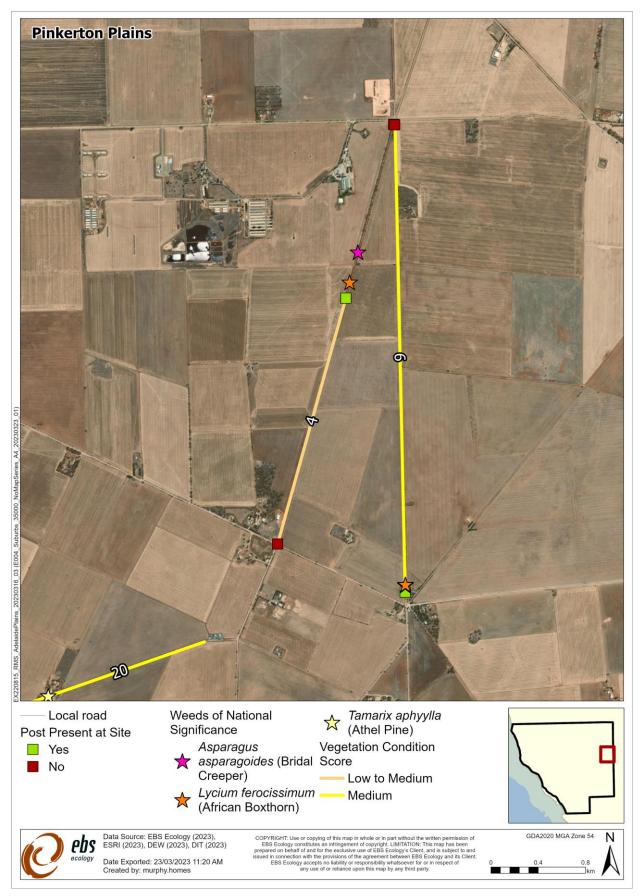


Figure 7. Roadside Marker Sites across Pinkerton Plains.



## 5.3 Reeves Plains

A total of 10 Sites were assessed across Reeves Plains (Figure 8).

# 5.3.1 Roadside Marker Site 010 (Boundary Rd)

Only one post was observed during the field survey on the southern end of Boundary Rd (Table 48). A total of 16 native species were identified at Site 10, with numerous species naturally regenerating. No species threatened under the EPBC Act or NPW Act were identified during the field survey. A total of eight introduced species were observed with presence of one declared weed African Boxthorn (*Lycium ferocissimum*) (Table 49). This Site received a VCS of 46.20 out of 80, reflecting vegetation of a medium quality (Table 50).

Table 48. Summary of Roadside Marker Site 010.

Site	010		
Road	Boundary Rd		
Suburb	Reeves Plains		
Date surveyed	11/01/2023		
	Start: 138.6298 -34.5126 (N end)		
Longitude and Latitude	End: 138.6298 -34.5345 (S end)		
Posts present?	One (S end)		
Threats	Weed invasion and illegal dumping.		
Vegetation Condition Score	Medium - 46.20		
Adjacent land use	Cropping/pasture and residential.		
Vegetation association	Eucalyptus odorata Mallee over Senna spp. and Acacia oswaldii		
	NA 5 – Mallee & Woodlands with Open Chenopod and Sclerophyll Shrub		
Benchmark Community	understory.		
	N end of Boundary Rd		
Photo points	S end of Boundary Rd		





Table 49. Flora Species List at Roadside Marker Site 010

Native				
Species Name	Common Name	AUS	SA	
Acacia ligulata	Umbrella Bush			
Acacia notabilis	Notable Wattle			
Acacia oswaldii	Umbrella Wattle			
Alectryon oleifolius ssp.				
canescens	Bullock Bush			
Alyxia buxifolia	Sea Box			
Austrostipa sp.	Spear-grass			
Callitris gracilis	Southern Cypress Pine			
Dianella revoluta var.				
Enchylaena tomentosa var.	Ruby Saltbush			
Eucalyptus dumosa	White Mallee			
Eucalyptus odorata	Peppermint Box			
Melaleuca acuminata ssp.				
acuminata .	Mallee Honey-myrtle			
Melaleuca brevifolia	Short-leaf Honey-myrtle			
Pittosporum angustifolium	Native Apricot			
Rhagodia parabolica	Mealy Saltbush			
Senna artemisioides ssp. X coriacea	Broad-leaf Desert Senna			
Introduced				
Species Name	Common Name	Declared	WoNS	Environment al Weed
Aizoon pubescens	Coastal Galenia			Yes
Avena barbata	Bearded Oat			Yes
Carrichtera annua	Ward's Weed			Yes
Lactuca serriola f.	Prickly Lettuce			Yes
Lycium ferocissimum	African Boxthorn	Yes	Yes	
Piptatherum miliaceum	Rice Millet			Yes
Reseda luteola	Wild Mignonette			
Sonchus oleraceus	Common Sow-thistle			Yes

Table 50. Scores for Bushland Assessment Vegetation Condition Components for Roadside Marker Site 010.

Attribute	Score
Native Plant Species Diversity	24/30
Weeds	9/15
Native Plant Life forms	16/20



Attribute	Score
Regenerating	6/12
Native: Exotic Understorey Biomass	3/5
Tree Canopy cover	3/5
Hollow-bearing tree	3/5
Fallen Timber/debris	3/5
Mature Tree	4/8
TOTAL VEGETATION CONDITION SCORE	46.20/80

#### 5.3.2 Roadside Marker Site 011 (Gawler Rd)

Both posts were observed during the field survey on the western and eastern end of Gawler Rd (Table 51). A total of 32 native species were identified at Site 011, with numerous species naturally regenerating. The State Rare *Acacia iteaphylla* (Flinders Ranges Wattle) was observed on the southern side of Gawler Rd. No other species threatened under the EPBC Act or NPW Act were identified at this Site. A total of 20 introduced species were observed with presence of 12 environmental weeds, and two declared weed (Table 49). Garden escapes were common within this Site due to the close proximity to residential properties. This Site received a VCS of 31.30 out of 80, reflecting vegetation of a medium quality (Table 53). Due to the large difference between the northern and the southern sides of Gawler road, each side was assessed separately. The scores have then been averaged to get an overall VCS of the whole Site.

Table 51. Summary of Roadside Marker Site 011.

Site	011
Road	Gawler Rd
Suburb	Reeves Plains
Date surveyed	13/01/2023
	Start: 138.5938 -34.591 (W end)
Longitude and Latitude	End: 138.6233 -34.5904 (E end)
Posts present?	Yes
Threats	Garden escapes, weed invasion, native vegetation clearance, mowing.
Vegetation Condition Score	Medium - 31.30
Adjacent land use	Cropping/pasture and residential.
Vegetation association	Eucalyptus porosa +/- E. largiflorens Mallee over Acacia spp. and Rhagodia parabolica.
Benchmark Community	NA 5 – Mallee & Woodlands with Open Chenopod and Sclerophyll Shrub understory.



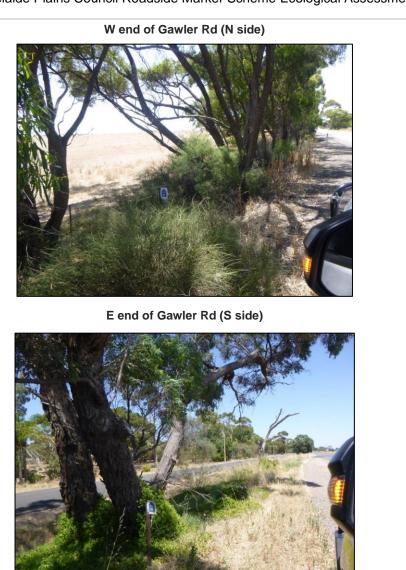


Table 52. Flora Species List at Roadside Marker Site 011.

Native			
Species Name	Common Name	AUS	SA
Acacia iteaphylla	Flinders Ranges Wattle		R
Acacia ligulata	Umbrella Bush		
Acacia notabilis	Notable Wattle		
Acacia oswaldii	Umbrella Wattle		
Acacia salicina	Willow Wattle		
Alyxia buxifolia	Sea Box		
Atriplex nummularia ssp.	Old-man Saltbush		
Austrostipa elegantissima	Feather Spear-grass		
Austrostipa platychaeta	Flat-awn Spear-grass		
Beyeria lechenaultii	Pale Turpentine Bush		
Bursaria spinosa ssp. spinosa	Sweet Bursaria		
Callitris gracilis	Southern Cypress Pine		
Chloris truncata	Windmill Grass		
Dianella revoluta var.			
Dodonaea sp.	Hop-bush		
Duma florulenta	Lignum		
Enchylaena tomentosa var. tomentosa	Ruby Saltbush		



Photo points

Native				
Species Name	Common Name	AUS	SA	
Enneapogon nigricans	Black-head Grass			
Enneapogon sp.				
Eucalyptus dumosa	White Mallee			
Eucalyptus largiflorens	River Box			
Eucalyptus porosa	Mallee Box			
Lomandra effusa	Scented Mat-rush			
Lomandra multiflora ssp.	Many-flower Mat-rush			
Maireana aphylla	Cotton-bush			
Maireana brevifolia	Short-leaf Bluebush			
Melaleuca lanceolata	Dryland Tea-tree			
Nitraria billardierei	Nitre-bush			
Pittosporum angustifolium	Native Apricot			
Rhagodia parabolica	Mealy Saltbush			
Santalum acuminatum	Quandong			
Sclerolaena diacantha	Grey Bindyi			
Senna artemisioides ssp.	Desert Senna			
Introduced	Boook Collina			
Species Name	Common Name	Declared	WoNS	Environmen al Weed
Aira sp.	Hair-grass			4. 11004
Aizoon pubescens	Coastal Galenia			Yes
Aptenia cordifolia	Heart-leaf Ice Plant			
Asphodelus fistulosus	Onion Weed			Yes
Avena barbata	Bearded Oat			Yes
Brassica sp.				
Cenchrus clandestinus	Kikuyu			Yes
Conyza bonariensis	Flax-leaf Fleabane			Yes
Ehrharta calycina	Perennial Veldt Grass			Yes
Lactuca serriola f.	Prickly Lettuce			Yes
Lolium perenne	Perennial Ryegrass			Yes
Marrubium vulgare	Horehound	Yes		
Melia azedarach				
Olea europaea ssp.	Olive	Yes		
Paspalum dilatatum	Paspalum			Yes
	i Fasuaiuiii		1	
				Yes
Piptatherum miliaceum	Rice Millet			Yes
Piptatherum miliaceum Punica granatum	Rice Millet Pomegranate			Yes
Piptatherum miliaceum	Rice Millet			

Table 53. Scores for Bushland Assessment Vegetation Condition Components for Roadside Marker Site 011.

Attribute	Score
Native Plant Species Diversity	18
Weeds	7.25
Native Plant Life forms	10
Regenerating	4.5
Native: Exotic Understorey Biomass	2.5/5
Tree Canopy cover	3/5
Hollow-bearing tree	3/5
Fallen Timber/debris	1.5/5
Mature Tree	3/5
TOTAL VEGETATION CONDITION SCORE	31.30/80



#### 5.3.3 Roadside Marker Site 013 (Humphrey Rd / Conroy Rd)

Both posts were observed at this Site, one at the start of Humphrey Rd and another at the start of Conroy Rd (Table 54). A total of 22 native species were identified at Site 013, with numerous species naturally regenerating. No species threatened under the EPBC Act or NPW Act were identified during the field survey. A total of 11 introduced species were observed with presence of five environmental weeds and two declared weed (one WoNS) (Table 55). This Site received a VCS of 30.32 out of 80, reflecting vegetation of a medium quality (Table 56).

Table 54. Summary of Roadside Marker Site 013.

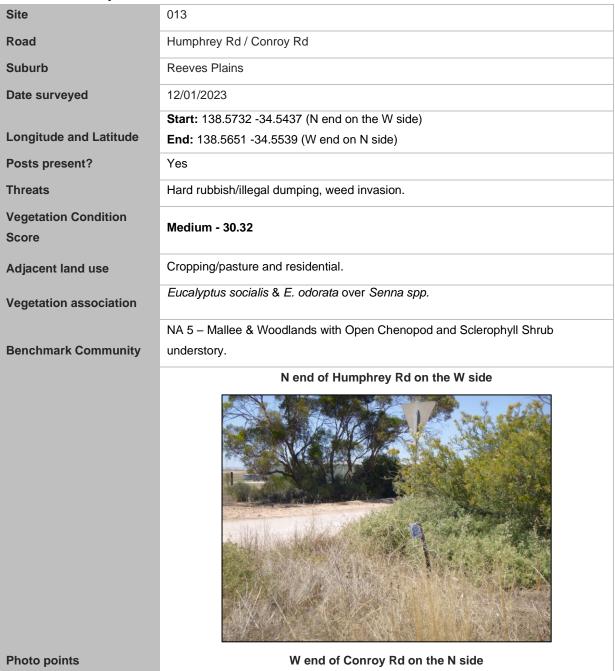






Table 55. Flora Species List at Roadside Marker Site 013.

Native				
Species Name	Common Name	AUS	SA	
Acacia ligulata	Umbrella Bush			
Acacia notabilis	Notable Wattle			
Acacia oswaldii	Umbrella Wattle			
Alyxia buxifolia	Sea Box			
Austrostipa nodosa	Tall Spear-grass			
Austrostipa platychaeta	Flat-awn Spear-grass			
Beyeria lechenaultii	Pale Turpentine Bush			
Bursaria spinosa ssp.	Bursaria			
Dianella revoluta var. revoluta	Black-anther Flax-lily			
Enchylaena tomentosa var.	Ruby Saltbush			
Eucalyptus odorata	Peppermint Box			
Eucalyptus socialis ssp.	Beaked Red Mallee			
Melaleuca brevifolia	Short-leaf Honey-myrtle			
Melaleuca lanceolata	Dryland Tea-tree			
Myoporum platycarpum ssp.	False Sandalwood			
Nitraria billardierei	Nitre-bush			
Pittosporum angustifolium	Native Apricot			
Rhagodia parabolica	Mealy Saltbush			
Rytidosperma caespitosum	Common Wallaby-grass			
Santalum acuminatum	Quandong			
Senna artemisioides ssp.	Desert Senna			
Senna artemisioides ssp. petiolaris				
Senna artemisioides ssp. X coriacea	Broad-leaf Desert Senna			
Introduced				
Species Name	Common Name	Declared	WoNS	Environment al Weed
Aizoon pubescens	Coastal Galenia			Yes
Avena barbata	Bearded Oat			Yes
Brassica sp.				
Carrichtera annua	Ward's Weed			Yes
Lycium ferocissimum	African Boxthorn	Yes	Yes	
Marrubium vulgare	Horehound	Yes		
Piptatherum miliaceum	Rice Millet			Yes
Reichardia tingitana	False Sowthistle			
Salvia verbenaca var.				
Schinus molle	Pepper-tree			Yes
Sisymbrium sp.	Wild Mustard			



Introduced				
Species Name	Common Name	Declared	WoNS	Environment al Weed
Solanum elaeagnifolium	Silver-leaf Nightshade	Yes	Yes	

Table 56. Scores for Bushland Assessment Vegetation Condition Components for Roadside Marker Site 013.

Attribute	Score
Native Plant Species Diversity	21/30
Weeds	7.5/15
Native Plant Life forms	12/20
Regenerating	6/12
Native: Exotic Understorey Biomass	3/5
Tree Canopy cover	1/5
Hollow-bearing tree	2/5
Fallen Timber/debris	1.5/5
Mature Tree	2/5
TOTAL VEGETATION CONDITION SCORE	30.32/80

#### 5.3.4 Roadside Marker Site 015 (Sandpit Rd)

Only one post was observed during the field survey on the N end of Sandpit Rd (Table 57). A total of 30 native species were identified across Site 15, with numerous species naturally regenerating. No species threatened under the EPBC Act or NPW Act were identified during the field survey. A total of 18 introduced species were observed with presence of 11 environmental weeds, and two declared weed (one WoNS, Table 58). Site 15a and 15b received a VCS of 43.59 out of 80 and 38.19 out of 80, respectively. Reflecting vegetation of a medium quality (Table 59). Due to the large difference between the N (15a) and the S end (15b) of Sandpit Rd, each section was assessed separately. The scores have <u>not</u> been averaged as they have a different bench mark community (Table 57).

Table 57. Summary of Roadside Marker Site 015.

Site	015
Road	Sandpit Rd
Suburb	Reeves Plains
Date surveyed	12/01/2023
	<b>Start:</b> 138.5822 -34.5382 (N end of Sandpit Rd – post location)
Longitude and Latitude	End: 138.5918 -34.5536 (S end of Sandpit Rd)
Posts present?	One at the N end.
Threats	Weed invasions, old tree guards.
Vegetation Condition	15a: Medium - 43.59
Score	15b: Medium - 38.19
Adjacent land use	Cropping/pasture and residential.
Vegetation association	15a: Eucalyptus porosa and Eucalyptus brachycalyx mallee over Senna spp.



	15b: Eucalyptus incrassata over Rhagodia parabolica +/- Triodia scariosa.
	15a: NA 5 – Mallee & Woodlands with Open Chenopod and Sclerophyll Shrub
	understory.
	15b: NA 4 Low Woodlands & Open Mallee with Dense to Mid dense Shrub & / or
Benchmark Community	Spinifex and Sedge Understorey.
	N end of Sandnit Rd W side



S end of Sandpit Rd



Photo points

Table 58. Flora Species List at Roadside Marker Site 015.

Native				
Species Name	Common Name	AUS	SA	
Acacia notabilis	Notable Wattle			
Austrostipa nodosa	Tall Spear-grass			
Austrostipa platychaeta	Flat-awn Spear-grass			
Bursaria spinosa ssp.	Bursaria			
Callitris gracilis	Southern Cypress Pine			
Clematis microphylla	Old Man's Beard			
Dampiera rosmarinifolia	Rosemary Dampiera			
Dianella revoluta var.				
Enchylaena tomentosa var.	Ruby Saltbush			



Native				
Species Name	Common Name	AUS	SA	
Enneapogon nigricans				
Enneapogon sp.	Bottle-washers/Nineawn			
Eucalyptus brachycalyx	Gilja			
Eucalyptus incrassata	Ridge-fruited Mallee			
Eucalyptus porosa	Mallee Box			
Hibbertia sp.	Guinea-flower			
Kunzea pomifera	Muntries			
Melaleuca acuminata ssp.				
acuminata .	Mallee Honey-myrtle			
Melaleuca brevifolia	Short-leaf Honey-myrtle			
Melaleuca lanceolata	Dryland Tea-tree			
Myoporum platycarpum ssp.	False Sandalwood			
Nitraria billardierei	Nitre-bush			
Pittosporum angustifolium	Native Apricot			
Pittosporum angustifolium	·			
Rhagodia parabolica	Mealy Saltbush			
Rytidosperma caespitosum	Common Wallaby-grass			
Rytidosperma sp.	Wallaby-grass			
Santalum acuminatum	Quandong			
Senna artemisioides ssp.	Desert Senna			
Teucrium racemosum	Grey Germander			
Triodia scariosa	Spinifex			
Introduced	Торишох			
	1	T		Environmenta
Species Name	Common Name	Declared	WoNS	Weed
Aizoon pubescens	Coastal Galenia			Yes
Asphodelus fistulosus	Onion Weed			Yes
Avena barbata	Bearded Oat			Yes
Brassica sp.				
Cenchrus clandestinus	Kikuyu			Yes
Centaurea calcitrapa	Star Thistle			Yes
Conyza bonariensis	Flax-leaf Fleabane			Yes
Cucumis myriocarpus ssp.				
myriocarpus	Paddy Melon			ļ .,
Ehrharta longiflora	Annual Veldt Grass			Yes
Ehrharta sp.	Veldt Grass			-
Lycium ferocissimum	African Boxthorn	Yes	Yes	
Marrubium vulgare	Horehound	Yes		.,
Piptatherum miliaceum	Rice Millet			Yes
Reichardia tingitana	False Sowthistle			
Salvia verbenaca var.	Wild Sage			Yes
Solanum nigrum	Black Nightshade			Yes
Sonchus oleraceus	Common Sow-thistle			Yes
Trifolium arvense var. arvense	Hare's-foot Clover			
Trifolium sp.	Clover			

Table 59. Scores for Bushland Assessment Vegetation Condition Components for Roadside Marker Site 015.

Attribute	Score 15a	Score 15b
Native Plant Species Diversity	21/30	10/30
Weeds	12/15	2/15
Native Plant Life forms	12/20	20/20
Regenerating	3/12	3/12
Native: Exotic Understorey Biomass	3/5	4/5



Attribute	Score 15a	Score 15b
Tree Canopy cover	5/5	4/5
Hollow-bearing tree	4/5	4/5
Fallen Timber/debris	0.5	4/5
Mature Tree	6/8	6/8
TOTAL VEGETATION CONDITION SCORE	43.59/80	38.19/80

## 5.3.5 Roadside Marker Site 016 (Richter Rd)

one post with a sign was observed on the E end of Richter Rd, at the W end only a stake (no sign) was observed. A total of 18 native species were identified at Site 016, with numerous species naturally regenerating. No species threatened under the EPBC Act or NPW Act were identified during the field survey. A total of 11 introduced species were observed, this includes seven environmental weeds and three declared weeds (Table 61Table 64). This Site received a VCS of 29.98 out of 80, reflecting vegetation of a low-medium quality (Table 62).

Table 60. Summary of Roadside Marker Site 016.

Site	016
Road	Richter Rd
Suburb	Reeves Plains
Date surveyed	11/01/2023
	Start:138.5943 -34.5258 (W end of Richter Rd)
Longitude and Latitude	<b>End:</b> 138.5708 -34.5217 (E end of Richter Rd)
Posts present?	Yes, W end had a stake but no sign.
Threats	Weed invasion, cleared areas near gates, rubbish.
Vegetation Condition Score	Low to Medium - 29.98
Adjacent land use	Cropping/pasture and residential.
Vegetation association	Eucalyptus porosa Mallee over Senna artesimoides and Acacia notabilis
	NA 5 – Mallee & Woodlands with Open Chenopod and Sclerophyll Shrub
Benchmark Community	understory.
Photo points	E end of Richter Rd on the S side





W end of Richter Rd on the S side

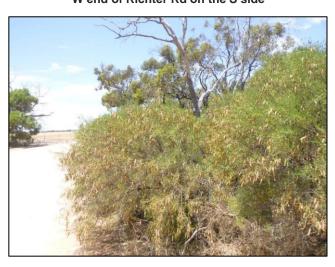


Table 61. Flora Species List at Roadside Marker Site 016.

Native				
Species Name	Common Name	AUS	SA	
Acacia notabilis	Notable Wattle			
Acacia oswaldii	Umbrella Wattle			
Acacia wilhelmiana	Dwarf Nealie			
Alectryon oleifolius ssp. canescens	Bullock Bush			
Austrostipa platychaeta	Flat-awn Spear-grass			
Austrostipa sp.	Spear-grass			
Bursaria spinosa ssp.	Bursaria			
Enchylaena tomentosa var.	Ruby Saltbush			
Eucalyptus porosa	Mallee Box			
Eucalyptus socialis ssp.	Beaked Red Mallee			
Lomandra effusa	Scented Mat-rush			
Melaleuca brevifolia	Short-leaf Honey-myrtle			
Pittosporum angustifolium	Native Apricot			
Rhagodia candolleana ssp.	Sea-berry Saltbush			
Santalum acuminatum	Quandong			
Sclerolaena diacantha	Grey Bindyi			
Senna artemisioides ssp.	Desert Senna			
Vittadinia cuneata var.	Fuzzy New Holland Daisy			
Introduced				



Species Name	Common Name	Declared	WoNS	Environmental Weed
Aira sp.	Hair-grass			
Asphodelus fistulosus	Onion Weed			Yes
Avena barbata	Bearded Oat			Yes
Carrichtera annua	Ward's Weed			Yes
Lactuca serriola f.	Prickly Lettuce			Yes
Lycium ferocissimum	African Boxthorn	Yes	Yes	
Marrubium vulgare	Horehound	Yes		
Salvia verbenaca var.	Wild Sage			Yes
Schinus molle	Pepper-tree			Yes
Solanum elaeagnifolium	Silver-leaf Nightshade	Yes	Yes	
Sonchus oleraceus	Common Sow-thistle			Yes

Table 62. Scores for Bushland Assessment Vegetation Condition Components for Roadside Marker Site 016.

Attribute	Score	
Native Plant Species Diversity	18/30	
Weeds	9/15	
Native Plant Life forms	12/20	
Regenerating	3/12	
Native: Exotic Understorey Biomass	2/5	
Tree Canopy cover	3/5	
Hollow-bearing trees	2/5	
Fallen Timber/debris	1/5	
Mature Tree	3/8	
TOTAL VEGETATION CONDITION SCORE	29.98/80	

# 5.3.6 Roadside Marker Site 018 (Fischer Rd)

No posts were observed at either ends of Fischer Rd (Table 63). A total of 16 native species were identified at Site 18, with numerous species naturally regenerating. No species threatened under the EPBC Act or NPW Act were identified during the field survey. A total of five introduced species were observed with presence of three environmental weeds, and one declared weed, (Table 64). This Site VCS of 27.17 out of 80, reflecting vegetation of a low to medium quality (Table 65).

Table 63. Summary of Roadside Marker Site 018.

Site	018
Road	Fischer Rd
Suburb	Reeves Plains
Date surveyed	11/01/2023
	<b>Start:</b> 138.5841 -34.5226 (N end of Fischer Rd)
Longitude and Latitude	<b>End:</b> 138.5843 -34.5261(S end of Fischer Rd)
Posts present?	No
Threats	Rubbish/illegal dumping, plantings.
Vegetation Condition Score	Low to Medium-27.17



Adjacent land use	Cropping/pasture and residential.
Augustin land ass	Eucalyptus socialis Mallee over Senna artemisioides ssp.
Vegetation association	Eucaryptus socialis Manee over Germa arternisionaes 35p.
	NA 5 – Mallee & Woodlands with Open Chenopod and Sclerophyll Shrub
Benchmark Community	understory.
	N end of Fischer Rd
	S end of Fischer Rd
Photo points	

Table 64. Flora Species List at Roadside Marker Site 018.

Native			
Species Name	Common Name	AUS	SA
Acacia ligulata	Umbrella Bush		
Acacia notabilis	Notable Wattle		
Acacia oswaldii	Umbrella Wattle		
Acacia wilhelmiana	Dwarf Nealie		
Austrostipa sp.	Spear-grass		
Enchylaena tomentosa var.	Ruby Saltbush		
Eucalyptus socialis ssp.	Beaked Red Mallee		
Melaleuca brevifolia	Short-leaf Honey-myrtle		
Melaleuca lanceolata	Dryland Tea-tree		
Myoporum platycarpum ssp.	False Sandalwood		
Pittosporum angustifolium	Native Apricot		



Native				
Species Name	Common Name	AUS	SA	
Rhagodia parabolica	Mealy Saltbush			
Rytidosperma sp.	Wallaby-grass			
Santalum acuminatum	Quandong			
Sclerolaena diacantha	Grey Bindyi			
Senna artemisioides ssp.	Desert Senna			
Salsola australis	Buckbush			
Introduced				
Species Name	Common Name	Declared	WoNS	Environment al Weed
Marrubium vulgare	Horehound	Yes		
Salvia verbenaca var.	Wild Sage			Yes
Heliotropium sp.	Heliotrope			
Carrichtera annua	Ward's Weed			Yes
Avena barbata	Bearded Oat			Yes

Table 65. Scores for Bushland Assessment Vegetation Condition Components for Roadside Marker Site 018.

Attribute	Score
Native Plant Species Diversity	15/30
Weeds	10.5/15
Native Plant Life forms	12/20
Regenerating	3/12
Native: Exotic Understorey Biomass	2/5
Tree Canopy cover	3/5
Hollow-bearing trees	0/5
Fallen Timber/debris	1.5/5
Mature Tree	3/5
TOTAL VEGETATION CONDITION SCORE	27.17/80

#### 5.3.7 Roadside Marker Site 024 (Oliver Rd)

No posts were observed at either ends of Fischer Rd (Table 66). A total of 24 native species were identified at Site 24, with numerous species naturally regenerating. No species threatened under the EPBC Act or NPW Act were identified during the field survey. A total of 15 introduced species were observed with presence of nine environmental weeds, and three declared weed, (Table 67). Numerous garden escapes were observed near gates of private property. This Site received a VCS of 37.68 out of 80, reflecting vegetation of a medium quality (Table 68).

Table 66. Summary of Roadside Marker Site 024.

Site	024
Road	Oliver Rd
Suburb	Reeves Plains
Date surveyed	12/01/2023
	<b>Start:</b> 138.575 -34.5666 (W end on the S side)
Longitude and Latitude	<b>End:</b> 138.6059 -34.5661 (E end on the S side)



Posts present?	Yes
Threats	Garden escapes and rubbish.
Vegetation Condition Score	Medium - 37.68
Adjacent land use	Cropping/pasture and residential.
Vegetation association	Eucalyptus socialis Mallee over Senna artemisioides ssp.
	NA 4 – Low Woodlands & Open Mallee with dense to mid-dense shrub &/or
Benchmark Community	Spinifex and sedge understorey
	W end on the S side of Oliver Rd
	E end on the S side of Oliver Rd
Photo points	

Table 67. Flora Species List at Roadside Marker Site 024.

Native				
Species Name	Common Name	AUS	SA	
Acacia ligulata	Umbrella Bush			
Acacia notabilis	Notable Wattle			
Acacia oswaldii	Umbrella Wattle			
Acacia pycnantha	Golden Wattle			
Austrostipa platychaeta	Flat-awn Spear-grass			
Austrostipa sp.	Spear-grass			



Native				
Species Name	Common Name	AUS	SA	
Bursaria spinosa ssp.	Bursaria			
Callitris gracilis	Southern Cypress Pine			
Dianella revoluta var.				
Enchylaena tomentosa var.	Ruby Saltbush			
Enneapogon sp.	Bottle-washers/Nineawn			
Eucalyptus dumosa	White Mallee			
Eucalyptus incrassata	Ridge-fruited Mallee			
Eucalyptus odorata	Peppermint Box			
Eucalyptus porosa	Mallee Box			
Eucalyptus socialis ssp.	Beaked Red Mallee			
Grevillea huegelii	Comb Grevillea			
Melaleuca brevifolia	Short-leaf Honey-myrtle			
Nitraria billardierei	Nitre-bush			
Pittosporum angustifolium	Native Apricot			
Rhagodia parabolica	Mealy Saltbush			
Rytidosperma sp.	Wallaby-grass			
Senna artemisioides ssp.	Desert Senna			
Senna artemisioides ssp. X				
coriacea	Broad-leaf Desert Senna			
Triodia scariosa	Spinifex			
Introduced				
Species Name	Common Name	Declared	WoNS	Environment al Weed
Aizoon pubescens	Coastal Galenia			Yes
Aloe sp.	Aloe			
Asphodelus fistulosus	Onion Weed			Yes
Avena barbata	Bearded Oat			Yes
Brassica sp.				
Carrichtera annua	Ward's Weed			Yes
Cenchrus clandestinus	Kikuyu			Yes
Fraxinus sp.	Ash			
Lactuca serriola f.	Prickly Lettuce			Yes
Lycium ferocissimum		Yes	Yes	
Marrubium vulgare	Horehound	Yes		
Mesembryanthemum sp.	Iceplant			Yes
Olea europaea ssp.	Olive	Yes		
Piptatherum miliaceum	Rice Millet			Yes
Reichardia tingitana	False Sowthistle			
Salvia verbenaca var.	Wild Sage			Yes

Table 68. Scores for Bushland Assessment Vegetation Condition Components for Roadside Marker Site 024.

Attribute	Score
Native Plant Species Diversity	21/30
Weeds	8/15
Native Plant Life forms	12/20
Regenerating	3/12
Native: Exotic Understorey Biomass	3/5
Tree Canopy cover	4/5
Hollow-bearing trees	3/5
Fallen Timber/debris	1/5
Mature Tree	4/8
TOTAL VEGETATION CONDITION SCORE	37.68/80



## 5.3.8 Roadside Marker Site 025 (Oliver Rd)

One post was observed at the western end of the Site, a stake but no sign was present at the eastern end of the Site (Table 69). A total of 23 native species were identified at Site 25, with four species showing signs of natural regeneration. A total of 19 introduced species were observed with presence of 10 environmental weeds, and six declared weed, four are listed as WoNS (Table 70). No species threatened under the EPBC Act or NPW Act were identified. Site 25 received a VCS of 45.64 out of 80, reflecting vegetation of a medium quality (Table 71).

Table 69. Summary of Roadside Marker Site 025.

Site	025
Road	Oliver Rd
Suburb	Reeves Plains
Date surveyed	11/01/2023
	<b>Start:</b> 138.6289 -34.5665 (E end on the S side of Oliver Rd)
Longitude and Latitude	<b>End:</b> 138.611 -34.5661 (W end on the S side of Oliver Rd)
Posts present?	One
Threats	Weed invasion, illegal dumping, pests (rabbits), garden escapes and rubbish
Vegetation Condition Score	Medium – 45.64
Adjacent land use	Cropping/pasture and residential.
Vegetation association	Eucalyptus incrassata mixed Mallee over chenopod shrubs
	NA 4 – Low Woodlands & Open Mallee with dense to mid-dense shrub &/or
Benchmark Community	Spinifex and sedge understorey
	E end on the S side of Oliver Rd
Photo points	





Table 70. Flora Species List at Roadside Marker Site 025.

Native				
Species Name	Common Name	AUS	SA	
Acacia hakeoides	Hakea Wattle			
Acacia notabilis	Notable Wattle			
Acacia wilhelmiana	Dwarf Nealie			
Austrostipa elegantissima	Feather Spear-grass			
Austrostipa sp.	Spear-grass			
Callitris gracilis	Southern Cypress Pine			
Cassytha sp.	Dodder-laurel			
Dianella revoluta var.				
Enchylaena tomentosa var.	Ruby Saltbush			
Enneapogon nigricans	Black-head Grass			
Eucalyptus brachycalyx	Gilja			
Eucalyptus dumosa	White Mallee			
Eucalyptus gracilis	Yorrell			
Eucalyptus incrassata	Ridge-fruited Mallee			
Lomandra leucocephala ssp.				
robusta	Wolly Mat-rush			
Melaleuca brevifolia	Short-leaf Honey-myrtle			
Melaleuca lanceolata	Dryland Tea-tree			
Pittosporum angustifolium	Native Apricot			
Rhagodia parabolica	Mealy Saltbush			
Rytidosperma sp.	Wallaby-grass			
Senna artemisioides ssp.	Desert Senna			
Triodia scariosa	Spinifex			
Vittadinia cuneata var.	Fuzzy New Holland Daisy			
Introduced				
Species Name	Common Name	Declared	WoNS	Environment al Weed
Asparagus asparagoides f.	Bridal Creeper	Yes	Yes	
Asphodelus fistulosus	Onion Weed			Yes
Brassica sp.				
Cenchrus clandestinus	Kikuyu			Yes
Centaurea calcitrapa	Star Thistle			Yes
Lactuca serriola f.	Prickly Lettuce			Yes
Lycium ferocissimum	African Boxthorn	Yes	Yes	
Marrubium vulgare	Horehound	Yes		
Olea europaea ssp.	European Olive	Yes		
Opuntia spp.	Prickly Pear	Yes	Yes	



Introduced				
Species Name	Common Name	Declared	WoNS	Environment al Weed
Paspalum sp.				
Phalaris aquatica	Phalaris			Yes
Piptatherum miliaceum	Rice Millet			Yes
Plantago lanceolata var.	Ribwort			Yes
Reichardia tingitana	False Sowthistle			
Salvia verbenaca var.	Wild Sage			Yes
Scabiosa atropurpurea	Pincushion			Yes
Solanum elaeagnifolium	Silver-leaf Nightshade	Yes	Yes	
Solanum nigrum	Black Nightshade			Yes

Table 71. Scores for Bushland Assessment Vegetation Condition Components for Roadside Marker Site 025.

Attribute	Score
Native Plant Species Diversity	27/30
Weeds	6.5/15
Native Plant Life forms	16/20
Regenerating	3/12
Native: Exotic Understorey Biomass	3/5
Tree Canopy cover	4/5
Hollow-bearing trees	3/5
Fallen Timber/debris	1.5/5
Mature Tree	4/8
TOTAL VEGETATION CONDITION SCORE	45.64/80

#### 5.3.9 Roadside Marker Site 026 (Boundary Rd)

No posts were observed at Site 26, however, a stake with no sign was observed at the S end, with clearance of native vegetation prominent at this Site (Table 72). A total of 22 native species with numerous species naturally regenerating. No species threatened under the EPBC Act or NPW Act were identified during the field survey. A total of 19 introduced species were observed with presence of 10 environmental weeds, and five declared weed, three of which are also listed as WoNS (Table 73). This Site received a VCS of 29.00 out of 80, reflecting vegetation of a low to medium quality (Table 74).

Table 72. Summary of Roadside Marker Site 026.

Site	026
Road	Boundary Rd
Suburb	Reeves Plains
Date surveyed	11/01/2023
	Start:138.6299 -34.5349 (N end of Boundary Rd)
Longitude and Latitude	End: 138.6299 -34.5784 (S end of Boundary Rd)
Posts present?	No
Threats	Track construction, native vegetation clearance, rubbish.
Vegetation Condition Score	Low to Medium - 29.00



Adjacent land use	Cropping/pasture and residential and remnant native vegetation.
	Eucalyptus odorata and E. incrassata Mallee over Melaleuca acuminata, Acacia
Vegetation association	oswaldii and Rhagodia parabolica.
	NA 5 – Mallee & Woodlands with Open Chenopod and Sclerophyll Shrub
Benchmark Community	understory.
	N end of Boundary Rd

S end of Boundary Rd



Photo points

Table 73. Flora Species List at Roadside Marker Site 026.

Native				
Species Name	Common Name	AUS	SA	
Acacia ligulata	Umbrella Bush			
Acacia notabilis	Notable Wattle			
Acacia oswaldii	Umbrella Wattle			
Acacia wilhelmiana	Dwarf Nealie			
Alyxia buxifolia	Sea Box			
Austrostipa sp.	Spear-grass			
Cassytha sp.	Dodder-laurel			
Clematis microphylla	Old Man's Beard			
Dianella revoluta var. revoluta	Black-anther Flax-lily			
Enchylaena tomentosa var.	Ruby Saltbush			
Eucalyptus dumosa	White Mallee			
Eucalyptus incrassata	Ridge-fruited Mallee			
Eucalyptus odorata	Peppermint Box			



Native				
Species Name	Common Name	AUS	SA	
Melaleuca acuminata ssp.				
acuminata .	Mallee Honey-myrtle			
Melaleuca brevifolia	Short-leaf Honey-myrtle			
Melaleuca lanceolata	Dryland Tea-tree			
Pittosporum angustifolium	Native Apricot			
Rhagodia parabolica	Mealy Saltbush			
Rytidosperma sp.	Wallaby-grass			
Salsola australis	Buckbush			
Santalum acuminatum	Quandong			
Senna artemisioides ssp.	Desert Senna			
Introduced				
Species Name	Common Name	Declared	WoNS	Environment al Weed
Aloe sp.	Aloe			
Arundo donax	Giant Reed	Yes		
Asparagus asparagoides f.	Bridal Creeper	Yes	Yes	
Asphodelus fistulosus				Yes
Avena barbata	Bearded Oat			Yes
Brassica sp.				
Bromus diandrus	Great Brome			
Carrichtera annua	Ward's Weed			Yes
Cenchrus clandestinus	Kikuyu			
Cucumis myriocarpus ssp. myriocarpus	Paddy Melon			
Cynodon dactylon	Bermuda Grass			Yes
Ehrharta calycina	Perennial Veldt Grass			Yes
Lactuca serriola f.	Prickly Lettuce			Yes
Lycium ferrocerium	African Boxthorn	Yes	Yes	
Mesembryanthemum sp.	Iceplant			Yes
Olea europaea	European Olive	Yes		
Palmae sp.				
Piptatherum miliaceum	Rice Millet			Yes
Schinus molle				Yes
Solanum elaeagnifolium	Silver-leaf Nightshade	Yes	Yes	
Sonchus oleraceus	Common Sow-thistle		# EDDO A + 6	Yes

Table 74. Scores for Bushland Assessment Vegetation Condition Components for Roadside Marker Site 026.

Attribute	Score
Native Plant Species Diversity	18/30
Weeds	5.5/15
Native Plant Life forms	12/20
Regenerating	3/12
Native: Exotic Understorey Biomass	2/5
Tree Canopy cover	3/5
Hollow-bearing trees	3/5
Fallen Timber/debris	1/5
Mature Tree	3/5
TOTAL VEGETATION CONDITION SCORE	29.00/80



## 5.3.10 Roadside Marker Site 095 (Day Rd)

No posts were observed at Site 95 (Table 75). A total of 13 native species with numerous species naturally regenerating. No species threatened under the EPBC Act or NPW Act were identified during the field survey. A total of six introduced species were observed with presence of five environmental weeds and no Declared weeds (Table 76). This Site received a VCS of 20.63 out of 80, reflecting vegetation of low quality (Table 77).

Table 75. Summary of Roadside Marker Site 095.







Table 76. Flora Species List at Roadside Marker Site 095.

Table 76. Flora Species List at	Noauside Marker Site 093.			
Native				
Species Name	Common Name	AUS	SA	
Acacia ligulata	Umbrella Bush			
Acacia oswaldii	Umbrella Wattle			
Austrostipa platychaeta	Flat-awn Spear-grass			
Austrostipa sp.	Spear-grass			
Dianella revoluta var.				
Eucalyptus gracilis	Yorrell			
Exocarpos aphyllus	Leafless Cherry			
Lomandra effusa	Scented Mat-rush			
Nitraria billardierei	Nitre-bush			
Pittosporum angustifolium	Native Apricot			
Rhagodia parabolica	Mealy Saltbush			
Senna artemisioides ssp.	Desert Senna			
Senna artemisioides ssp. X coriacea	Broad-leaf Desert Senna			
Introduced				
Species Name	Common Name	Declared	WoNS	Environment al Weed
Asphodelus fistulosus	Onion Weed			Yes
Centaurea calcitrapa	Star Thistle			Yes
Dactylis glomerata	Cocksfoot			Yes
Piptatherum miliaceum	Rice Millet			Yes
Reseda sp.	Mignonette			
Scabiosa atropurpurea	Pincushion			Yes

Table 77. Scores for Bushland Assessment Vegetation Condition Components for Roadside Marker Site 095.

Attribute	Score
Native Plant Species Diversity	15/30
Weeds	8/15
Native Plant Life forms	8/20
Regenerating	3/12
Native: Exotic Understorey Biomass	3/5
Tree Canopy cover	1/5
Hollow-bearing trees	1/5
Fallen Timber/debris	1/5
Mature Tree	2/8



Attribute	Score		
TOTAL VEGETATION CONDITION SCORE	20.63/80		



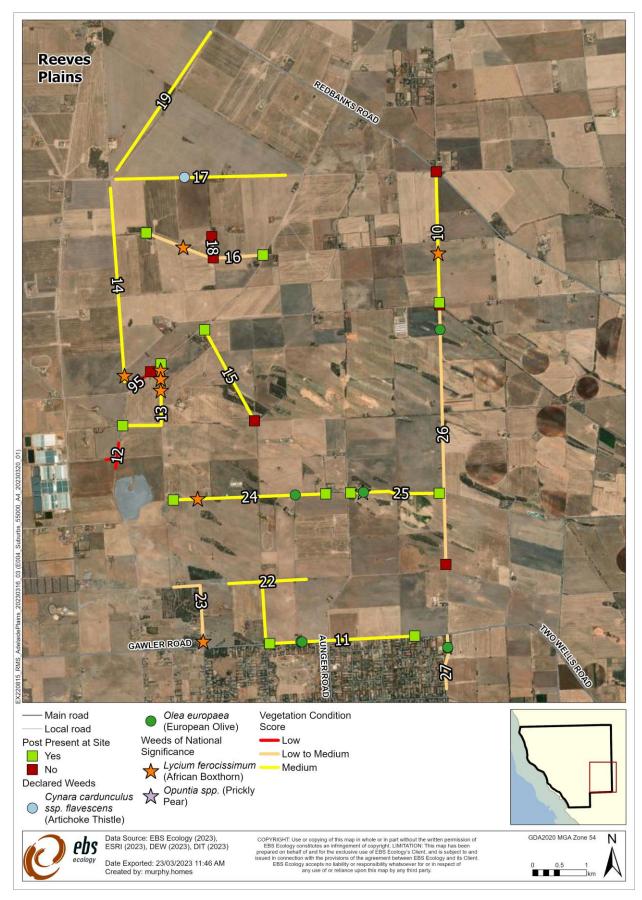


Figure 8. Roadside Marker Sites across Reeves Plains.



# 5.4 Korunye

A total of two Sites were assessed across Korunye (Figure 9).

## 5.4.1 Roadside Marker Site 012 (Hall Rd)

One post was observed at the end of Kenner Rd, no other posts were observed at this Site. Illegal dumping of rubbish was prominent (Table 78). A total of 10 native species were identified at Site 12, with two species naturally regenerating. No species threatened under the EPBC Act or NPW Act were identified during the field survey. A total of 13 introduced species were observed with presence of four environmental weeds and three declared weeds, two of which are WoNS (Table 79). This Site received a VCS of 9.88 out of 80, reflecting vegetation of a low quality (Table 80).

Table 78. Summary of Roadside Marker Site 012.

Table 78. Summary of Roadside Marker Site 012.				
Site	012			
Road	Hall Rd			
Suburb	Korunye			
Date surveyed	12/01/2023			
	Start: 138.5615 -34.5595 (W end of Kenner Rd)			
Longitude and Latitude	<b>End:</b> 138.5635 -34.561 (S end of Hall Rd)			
Posts present?	One post (Kenner Rd)			
Threats	Illegal dumping and weed invasion.			
Vegetation Condition Score	Low - 9.88			
Adjacent land use	Cropping/pasture and residential and remnant native vegetation.			
Vegetation association	Eucalyptus gracilis Open Mallee over Senna spp.			
	A 5 – Mallee & Woodlands with Open Chenopod and Sclerophyll Shrub			
Benchmark Community	understory.			
	W end on the S side of Kenner Rd			
Photo points	S end of Hall Rd			





N end of Hall Rd



Table 79. Flora Species List at Roadside Marker Site 012.

Native				
Species Name	Common Name	AUS	SA	
Acacia ligulata	Umbrella Bush			
Austrostipa nodosa	Tall Spear-grass			
Dianella sp.	Flax-lily			
Enchylaena tomentosa var.	Ruby Saltbush			
Melaleuca brevifolia	Short-leaf Honey-myrtle			
Nitraria billardierei	Nitre-bush			
Pittosporum angustifolium	Native Apricot			
Rhagodia parabolica	Mealy Saltbush			
Rytidosperma caespitosum	Common Wallaby-grass			
Senna artemisioides ssp.	Desert Senna			
Introduced				
Species Name	Common Name	Declared	WoNS	Environment al Weed
Agave sp.				
Asphodelus fistulosus	Onion Weed			Yes
Avena barbata	Bearded Oat			Yes
Brassica sp.				
Bromus diandrus	Great Brome			
Centaurea calcitrapa	Star Thistle			Yes
Lycium ferocissimum	African Boxthorn	Yes	Yes	
Marrubium vulgare	Horehound	Yes		



Piptatherum miliaceum	Rice Millet			Yes
Reichardia tingitana	False Sowthistle			
Salvia verbenaca var.	Wild Sage			Yes
Scabiosa atropurpurea	Pincushion			Yes
Solanum elaeagnifolium	Silver-leaf Nightshade	Yes	Yes	

WoNS = Weeds of National Significance (LSA Act). AUS= National threatened species under the EPBC Act; SA= State threatened species under the NPW Act; RA= Rare, EN=Endangered, VU=Vulnerable, CE= Critically Endangered.

Table 80. Scores for Bushland Assessment Vegetation Condition Components for Roadside Marker Site 012.

Attribute	Score
Native Plant Species Diversity	9/30
Weeds	6.5/15
Native Plant Life forms	8/20
Regenerating	3/12
Native: Exotic Understorey Biomass	2/5
Tree Canopy cover	0/5
Hollow-bearing trees	0/5
Fallen Timber/debris	0/5
Mature Tree	0/8
TOTAL VEGETATION CONDITION SCORE	9.88/80

#### 5.4.2 Roadside Marker Site 014 (Hall Rd)

Both post was observed at this Site (Table 81). A total of 27 native species were identified at Site 14, with six species naturally regenerating. No species threatened under the EPBC Act or NPW Act were identified during the field survey. A total of 11 introduced species were observed with presence of seven environmental weeds and one declared WoNS (Table 82). This Site received a VCS of 37.80 out of 80, reflecting vegetation of medium quality (Table 83).

Table 81. Summary of Roadside Marker Site 014.

Site	014
Road	Hall Rd
Suburb	Korunye
Date surveyed	11/01/2023
	Start: 138.5638 -34.514 (N end of Hall Rd, E side)
Longitude and Latitude	End: 138.5657 -34.5465 (S end of Hall Rd, W side)
Posts present?	Yes
Threats	Illegal dumping, rubbish and weed invasion.
Vegetation Condition Score	Medium - 37.80
Adjacent land use	Cropping/pasture and residential and remnant native vegetation.
Vegetation association	Eucalyptus socialis, E. odorata, E. gracilis Mallee over Senna spp.
	NA 5 – Mallee & Woodlands with Open Chenopod and Sclerophyll Shrub
Benchmark Community	understory.
Photo points	N end of Hall Rd (E side)





S end of Hall Rd (W side)



Table 82. Flora Species List at Roadside Marker Site 014.

Native				
14dilye				
Species Name	Common Name	AUS	SA	
Acacia ligulata	Umbrella Bush			
Acacia notabilis	Notable Wattle			
Acacia oswaldii	Umbrella Wattle			
Alectryon oleifolius ssp. canescens	Bullock Bush			
Austrostipa platychaeta	Flat-awn Spear-grass			
Austrostipa sp.	Spear-grass			
Beyeria lechenaultii	Pale Turpentine Bush			
Callitris gracilis	Southern Cypress Pine			
Dianella revoluta var. revoluta	Black-anther Flax-lily			
Enchylaena tomentosa var.	Ruby Saltbush			
Eremophila longifolia	Weeping Emubush			
Eucalyptus gracilis	Yorrell			
Eucalyptus odorata	Peppermint Box			
Eucalyptus socialis ssp.	Beaked Red Mallee			
Exocarpos aphyllus	Leafless Cherry			
Lomandra effusa	Scented Mat-rush			
Melaleuca brevifolia	Short-leaf Honey-myrtle			
Nitraria billardierei	Nitre-bush			
Pittosporum angustifolium	Native Apricot			
Rhagodia parabolica	Mealy Saltbush			
Rytidosperma sp.	Wallaby-grass			•



Native				
Species Name	Common Name	AUS	SA	
Sclerolaena diacantha	Grey Bindyi			
Senna artemisioides ssp.	Desert Senna			
Senna artemisioides ssp. petiolaris				
Senna artemisioides ssp. X coriacea	Broad-leaf Desert Senna			
Vittadinia cuneata var.	Fuzzy New Holland Daisy			
Zygophyllum sp.				
Introduced				
Species Name	Common Name	Declared	WoNS	Environment al Weed
Asphodelus fistulosus	Onion Weed			Yes
Avena barbata	Bearded Oat			Yes
Brassica sp.				
Carrichtera annua	Ward's Weed			Yes
Centaurea calcitrapa	Star Thistle			Yes
Marrubium vulgare	Horehound			
Piptatherum miliaceum	Rice Millet			Yes
Reseda sp.				
Salvia verbenaca var.	Wild Sage			Yes
Scabiosa atropurpurea	Pincushion			Yes
Solanum elaeagnifolium	Silver-leaf Nightshade	Yes	Yes	

Table 83. Scores for Bushland Assessment Vegetation Condition Components for Roadside Marker Site 014.

Attribute	Score
Native Plant Species Diversity	24/30
Weeds	9/15
Native Plant Life forms	16/20
Regenerating	6/12
Native: Exotic Understorey Biomass	2/5
Tree Canopy cover	2/5
Hollow-bearing trees	3/5
Fallen Timber/debris	3/5
Mature Tree	2/8
TOTAL VEGETATION CONDITION SCORE	37.80/80



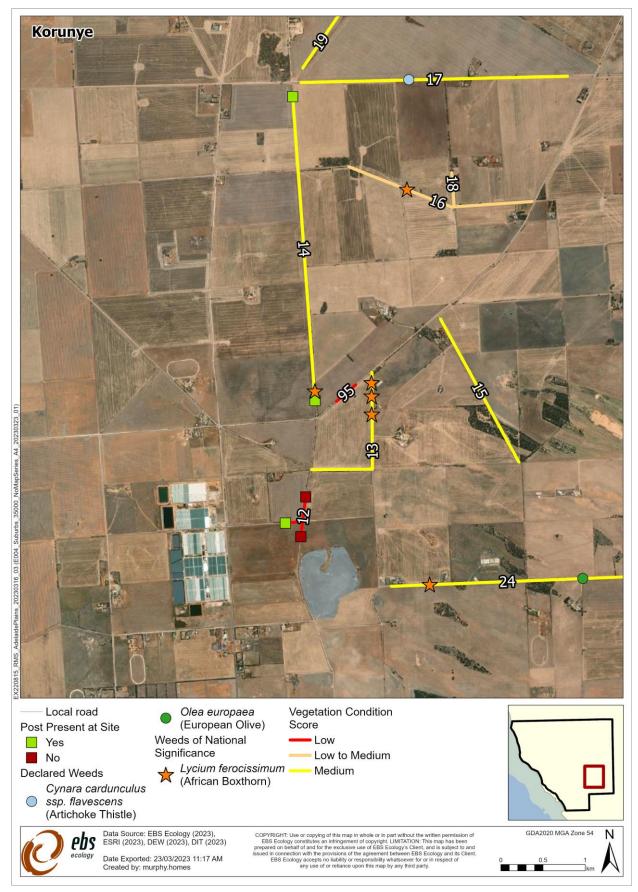


Figure 9. Roadside Marker Sites across Korunye.



#### 5.5 Redbanks

A total of four Sites were surveyed across Redbanks (Figure 10).

#### 5.5.1 Roadside Marker Site 017 (Verner Rd)

Both post was observed at this 17 (Table 84). A total of 22 native species were identified, with three species naturally regenerating. No species threatened under the EPBC Act or NPW Act were identified during the field survey. A total of 12 introduced species were observed with presence of eight environmental weeds and two declared weed, one of those also listed as a WoNS (Table 85). This Site received a VCS of 40.43 out of 80, reflecting vegetation of medium quality (Table 86).

Table 84. Summary of Roadside Marker Site 017.

Table 84. Summary of Roadside Marker Site 017.				
Site	017			
Road	Verner Rd			
Suburb	Redbanks			
Date surveyed	11/01/2023			
	Start: 138.5649 -34.5125 (W end of Verner Rd)			
Longitude and Latitude	<b>End:</b> 138.5993 -34.5125 (E end of Verner Rd)			
Posts present?	Yes			
Threats	Clearance, rubbish, drift spray from surrounding cropping.			
Vegetation Condition Score	Medium - 40.43			
Adjacent land use	Cropping/pasture and residential and remnant native vegetation.			
Vegetation association	Eucalyptus socialis +/- Mixed Mallee over Senna spp.			
	NA 5 – Mallee & Woodlands with Open Chenopod and Sclerophyll Shrub			
Benchmark Community	understory.			
	W end of Verner Rd (S side)			
Photo points	E end of Verner Rd (S side)			





Table 85. Flora Species List at Roadside Marker Site 017.

Native				
Species Name	Common Name	AUS	SA	
Acacia ligulata	Umbrella Bush			
Acacia notabilis	Notable Wattle			
Acacia oswaldii	Umbrella Wattle			
Austrostipa sp.	Spear-grass			
Dianella revoluta var.				
Enchylaena tomentosa var.	Ruby Saltbush			
Enneapogon nigricans	Black-head Grass			
Eucalyptus odorata	Peppermint Box			
Eucalyptus socialis ssp.	Beaked Red Mallee			
Exocarpos aphyllus	Leafless Cherry			
Lomandra effusa	Scented Mat-rush			
Melaleuca brevifolia	Short-leaf Honey-myrtle			
Melaleuca lanceolata	Dryland Tea-tree			
Myoporum platycarpum ssp.	False Sandalwood			
Pittosporum angustifolium	Native Apricot			
Rhagodia parabolica	Mealy Saltbush			
Roepera aurantiaca ssp.	meany campus.			
aurantiaca .	Shrubby Twinleaf			
Rytidosperma sp.	Wallaby-grass			
Senna artemisioides ssp.	Desert Senna			
Senna artemisioides ssp.				
petiolaris				
Senna artemisioides ssp. X				
coriacea	Broad-leaf Desert Senna			
Vittadinia cuneata var.	Fuzzy New Holland Daisy			
Introduced				
Species Name	Common Name	Declared	WoNS	Environment al Weed
Aira sp.	Hair-grass			
Asphodelus fistulosus	Onion Weed			Yes
Avena barbata	Bearded Oat			Yes
Centaurea calcitrapa	Star Thistle			Yes
Cynara cardunculus ssp.		Yes		
flavescens	Artichoke Thistle	163		
Lactuca serriola f.	Prickly Lettuce			Yes
Lycium ferocissimum	African Boxthorn	Yes	Yes	
Piptatherum miliaceum	Rice Millet			Yes
Salvia verbenaca var.	Wild Sage			Yes
Scabiosa atropurpurea	Pincushion			Yes
Sisymbrium sp.	Wild Mustard			
Solanum nigrum	Black Nightshade			Yes



Table 86. Scores for Bushland Assessment Vegetation Condition Components for Roadside Marker Site 017.

Attribute	Score
Native Plant Species Diversity	24/30
Weeds	9/15
Native Plant Life forms	16/20
Regenerating	3/12
Native: Exotic Understorey Biomass	3/5
Tree Canopy cover	3/5
Hollow-bearing trees	2/5
Fallen Timber/debris	1/5
Mature Tree	3/8
TOTAL VEGETATION CONDITION SCORE	40.43/80

#### 5.5.2 Roadside Marker Site 019 (Lynch Rd)

Both post was observed at this 19 (Table 87). A total of 16 native species were identified, with four species naturally regenerating. No species threatened under the EPBC Act or NPW Act were identified during the field survey. A total of 15 introduced species were observed with presence of eight environmental weeds and one declared weed, also listed as a WoNS (Table 88). This Site received a VCS of 41.34 out of 80, reflecting vegetation of medium quality (Table 89).

Table 87. Summary of Roadside Marker Site 019.

Site	019
Road	Lynch Rd
Suburb	Redbanks
Date surveyed	11/1/2023
	Start: 138.5848 -34.4883 (N end of Lynch Rd, W side)
Longitude and Latitude	End: 138.5652-34.511(S end of Lynch Rd, W side)
Posts present?	Yes
Threats	Rubbish
Vegetation Condition Score	Medium - 41.34
Adjacent land use	Cropping/pasture and residential and remnant native vegetation.
Vegetation association	Eucalyptus porosa +/- Mixed Eucalyptus spp. Mallee over Senna spp.
	NA 5 – Mallee & Woodlands with Open Chenopod and Sclerophyll Shrub
Benchmark Community	understory.
Photo points	N end of Lynch Rd, W side





S end of Lynch Rd, W side



Table 88. Flora Species List at Roadside Marker Site 019.

Native					
Species Name	Common Name	AUS	SA		
Acacia ligulata	Umbrella Bush				
Acacia notabilis	Notable Wattle				
Acacia oswaldii	Umbrella Wattle				
Alyxia buxifolia	Sea Box				
Enchylaena tomentosa var.	Ruby Saltbush				
Eucalyptus largiflorens	River Box				
Eucalyptus oleosa ssp. ampliata					
Eucalyptus porosa	Mallee Box				
Eucalyptus socialis ssp.	Beaked Red Mallee				
Exocarpos aphyllus	Leafless Cherry				
Nitraria billardierei	Nitre-bush				
Pittosporum angustifolium	Native Apricot				
Rhagodia parabolica	Mealy Saltbush				
Senna artemisioides ssp.	Desert Senna				
Senna artemisioides ssp. X					
coriacea	Broad-leaf Desert Senna				
Senna sp.	Senna				
Introduced					
Species Name	Common Name	Declared	WoNS	Environment al Weed	
Aira sp.	Hair-grass				
Asphodelus fistulosus	Onion Weed			Yes	



Introduced				
Species Name	Common Name	Declared	WoNS	Environment al Weed
Avena barbata	Bearded Oat			Yes
Brassica sp.				
Carrichtera annua	Ward's Weed			Yes
Conyza bonariensis	Flax-leaf Fleabane			Yes
Cucumis myriocarpus ssp. myriocarpus	Paddy Melon			
Heliotropium sp.	Heliotrope			Yes
Hordeum distichon				
Lactuca serriola f.	Prickly Lettuce			Yes
Reseda sp.	Mignonette			
Sisymbrium sp.	Wild Mustard			
Solanum elaeagnifolium	Silver-leaf Nightshade	Yes	Yes	
Solanum nigrum	Black Nightshade			Yes
Sonchus oleraceus	Common Sow-thistle			Yes

WoNS = Weeds of National Significance (LSA Act). AUS= National threatened species under the EPBC Act; SA= State threatened species under the NPW Act; RA= Rare, EN=Endangered, VU=Vulnerable, CE= Critically Endangered.

Table 89. Scores for Bushland Assessment Vegetation Condition Components for Roadside Marker Site 019.

Attribute	Score
Native Plant Species Diversity	24/30
Weeds	10.5/15
Native Plant Life forms	12/30
Regenerating	3/12
Native: Exotic Understorey Biomass	2/5
Tree Canopy cover	4/5
Hollow-bearing trees	4/5
Fallen Timber/debris	3/5
Mature Tree	3/8
TOTAL VEGETATION CONDITION SCORE	41.34/80

#### 5.5.3 Roadside Marker Site 020 (Helps Rd)

Both post was observed at Site 20 (Table 90). A total of 25 native species were identified, with six species naturally regenerating. No species threatened under the EPBC Act or NPW Act were identified during the field survey. A total of nine introduced species were observed with presence of seven environmental weeds and one declared weed, *Tamarix aphylla* (Athel Pine) also listed as a WoNS (Table 91). This Site received a VCS of 38.70 out of 80, reflecting vegetation of medium quality (Table 92).

Table 90. Summary of Roadside Marker Site 020.

Site	020
Road	Helps Rd
Suburb	Redbanks
Date surveyed	11/1/2023
	Start: 138.6112 -34.4772 (E end of Helps Rd, S side)
Longitude and Latitude	End: 138.5883 -34.4833 (W end of Helps Rd, S side)
Posts present?	Yes
Threats	Introduced pests, native vegetation clearance, plantings of non-local species.



Vegetation Condition Score	Medium – 38.70
Adjacent land use	Cropping/pasture and residential and remnant native vegetation.
Vegetation association	Eucalyptus phenax +/- Mixed Eucalyptus spp. Mallee over Senna spp.
Benchmark Community	NA 5 – Mallee & Woodlands with Open Chenopod and Sclerophyll Shrub understory.
	E end of Helps Rd, S side



W end of Helps Rd, S side



Photo points

Table 91. Flora Species List at Roadside Marker Site 020.

Native				
Species Name	Common Name	AUS	SA	
Acacia ligulata	Umbrella Bush			
Acacia notabilis	Notable Wattle			
Acacia oswaldii	Umbrella Wattle			
Austrostipa platychaeta	Flat-awn Spear-grass			
Austrostipa sp.	Spear-grass			
Austrostipa sp.	Spear-grass			
Bursaria spinosa ssp.	Bursaria			
Callitris gracilis	Southern Cypress Pine			



Native				
Species Name	Common Name	AUS	SA	
Dianella sp.	Flax-lily			
Enchylaena tomentosa var.	Ruby Saltbush			
Eucalyptus gracilis	Yorrell			
Eucalyptus phenax ssp. phenax	White Mallee			
Eucalyptus porosa	Mallee Box			
Eucalyptus socialis ssp.	Beaked Red Mallee			
Exocarpos aphyllus	Leafless Cherry			
Melaleuca brevifolia	Short-leaf Honey-myrtle			
Melaleuca lanceolata	Dryland Tea-tree			
Myoporum platycarpum ssp.	False Sandalwood			
Pittosporum angustifolium	Native Apricot			
Rhagodia parabolica	Mealy Saltbush			
Roepera apiculata	Pointed Twinleaf			
Santalum acuminatum	Quandong			
Sclerolaena diacantha	Grey Bindyi			
Senna artemisioides ssp.	Desert Senna			
Senna artemisioides ssp. petiolaris				
Introduced				
Species Name	Common Name	Declared	WoNS	Environment al Weed
Avena barbata	Bearded Oat			Yes
Brassica sp.				
Carrichtera annua	Ward's Weed			Yes
Conyza bonariensis	Flax-leaf Fleabane			Yes
Lactuca serriola f.	Prickly Lettuce			Yes
Piptatherum miliaceum	Rice Millet			Yes
Schinus molle	Pepper-tree			Yes
Sonchus oleraceus	Common Sow-thistle			Yes
Tamarix aphylla	Athel Pine	Yes	Yes	

WoNS = Weeds of National Significance (LSA Act). AUS= National threatened species under the EPBC Act; SA= State threatened species under the NPW Act; RA= Rare, EN=Endangered, VU=Vulnerable, CE= Critically Endangered.

Table 92. Scores for Bushland Assessment Vegetation Condition Components for Roadside Marker Site 020.

Attribute	Score
Native Plant Species Diversity	24/30
Weeds	12/15
Native Plant Life forms	12/20
Regenerating	6/12
Native: Exotic Understorey Biomass	3/5
Tree Canopy cover	2/5
Hollow-bearing trees	3/5
Fallen Timber/debris	1/5
Mature Tree	2/8
TOTAL VEGETATION CONDITION SCORE	38.70/80

#### 5.5.4 Roadside Marker Site 021 (Hancock Rd)

Both post was observed at this Site 21 (Table 93). A total of 19 native species were, with five species naturally regenerating. No species threatened under the EPBC Act or NPW Act were identified during the field survey. A total of 11 introduced species were observed with presence of eight environmental weeds



and two declared weeds, one of which is listed as a WoNS (Table 94). This Site received a VCS of 36.30 out of 80, reflecting vegetation of medium quality (Table 95).

Table 93. Summary of Roadside Marker Site 021.

Site	021
Road	Hancock Rd
Suburb	Redbanks
Date surveyed	11/1/2023
	Start: 138.588 -34.4831 (S end of Hancock Rd)
Longitude and Latitude	End: 138.5838 -34.4713 (N end of Hancock Rd)
Posts present?	Yes
Threats	Introduced pests, native vegetation clearance, plantings of non-local species.
Vegetation Condition Score	Medium – 36.30
Adjacent land use	Cropping/pasture and residential and remnant native vegetation.
Vegetation association	Eucalyptus socilais +/- Mixed Eucalyptus spp. Mallee over Senna spp.
	NA 5 – Mallee & Woodlands with Open Chenopod and Sclerophyll Shrub
Benchmark Community	understory.
	S end of Hancock Rd (W side)
Photo points	N end of Hancock Rd (W side)





Table 94. Flora Species List at Roadside Marker Site 021.

Native				
Species Name	Common Name	AUS	SA	
Acacia hakeoides	Hakea Wattle			
Acacia notabilis	Notable Wattle			
Acacia oswaldii	Umbrella Wattle			
Acacia wilhelmiana	Dwarf Nealie			
Alectryon oleifolius ssp. canescens	Bullock Bush			
Austrostipa platychaeta	Flat-awn Spear-grass			
Austrostipa sp.	Spear-grass			
Enchylaena tomentosa var.	Ruby Saltbush			
Eucalyptus gracilis	Yorrell			
Eucalyptus odorata	Peppermint Box			
Eucalyptus socialis ssp.				
Lomandra effusa	Scented Mat-rush			
Melaleuca lanceolata	Dryland Tea-tree			
Pittosporum angustifolium	Native Apricot			
Rhagodia parabolica	Mealy Saltbush			
Santalum acuminatum	Quandong			
Sclerolaena diacantha	Grey Bindyi			
Senna artemisioides ssp.	Desert Senna			
Senna artemisioides ssp. X coriacea	Broad-leaf Desert Senna			
Introduced				
Species Name	Common Name	Declared	WoNS	Environment al Weed
Aizoon pubescens	Coastal Galenia			Yes
Avena barbata	Bearded Oat			Yes
Brassica sp.				
Carrichtera annua	Ward's Weed			Yes
Centaurea calcitrapa	Star Thistle			Yes
Lactuca serriola f.	Prickly Lettuce			Yes
Marrubium vulgare	Horehound	Yes		
Piptatherum miliaceum	Rice Millet			Yes
Solanum elaeagnifolium	Silver-leaf Nightshade	Yes	Yes	
Solanum nigrum	Black Nightshade			Yes
Sonchus oleraceus	Common Sow-thistle			Yes



# Adelaide Plains Council Roadside Marker Scheme Ecological Assessment

Table 95. Scores for Bushland Assessment Vegetation Condition Components for Roadside Marker Site 021.

Attribute	Score
Native Plant Species Diversity	24/30
Weeds	9/15
Native Plant Life forms	12/20
Regenerating	3/12
Native: Exotic Understorey Biomass	3/5
Tree Canopy cover	3/5
Hollow-bearing trees	2/5
Fallen Timber/debris	1/5
Mature Tree	2/8
TOTAL VEGETATION CONDITION SCORE	36.30/80



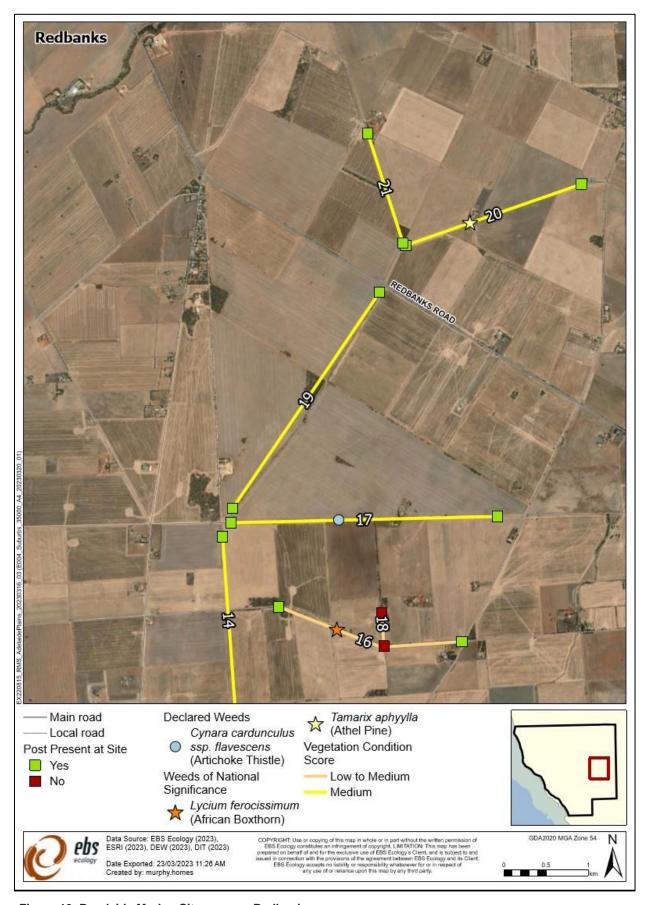


Figure 10. Roadside Marker Sites across Redbanks.



#### 5.6 Lewiston

A total of three roadside marker Sites were assessed across Lewiston (Figure 11).

## 5.6.1 Roadside Marker Site 022 (Sharpe Rd and McPharlin Rd)

Both post was observed at Site 72. A total of 18 native species were identified, with three species naturally regenerating. No species threatened under the EPBC Act or NPW Act were identified during the field survey. A total of 20 introduced species were observed with presence of Environmental weeds and two Declared weeds (Table 97). This Site received a VCS of 33.34 out of 80, reflecting vegetation of medium quality (Table 98)

Table 96. Summary of Roadside Marker Site 022.

Site	022
Road	Sharpe and McPharlin Rd
Suburb	Lewiston
Date surveyed	12/1/2023
	Start: 138.5804 -34.5906 (S end of McPharlin Rd)
Longitude and Latitude	End: 138.5747 -34.5812 (W end of Sharpe Rd)
Posts present?	Yes
Threats	Native vegetation clearance, rubbish, illegal dumping.
Vegetation Condition Score	Medium – 33.34
Adjacent land use	Cropping/pasture and residential and remnant native vegetation.
Vegetation association	Eucalyptus odorata Mallee over Callitris gracilis
	NA 5 – Mallee & Woodlands with Open Chenopod and Sclerophyll Shrub
Benchmark Community	understory.
	S end of McPharlin Rd (E side)
Photo points	W end of Sharpe Rd (S side)





Table 97. Flora Species List at Roadside Marker Site 022.

Native				
Species Name	Common Name	AUS	SA	
Acacia hakeoides	Hakea Wattle			
Acacia ligulata	Umbrella Bush			
Acacia oswaldii	Umbrella Wattle			
Acacia pycnantha	Golden Wattle			
Austrostipa nodosa	Tall Spear-grass			
Austrostipa sp.	Spear-grass			
Austrostipa sp.	Spear-grass			
Callitris gracilis	Southern Cypress Pine			
Enneapogon nigricans	Black-head Grass			
Eucalyptus odorata	Peppermint Box			
Exocarpos aphyllus	Leafless Cherry			
Melaleuca brevifolia	Short-leaf Honey-myrtle			
Melaleuca lanceolata	Dryland Tea-tree			
Nitraria billardierei	Nitre-bush			
Pittosporum angustifolium	Native Apricot			
Rhagodia parabolica	Mealy Saltbush			
Rytidosperma sp.	Wallaby-grass			
Senna artemisioides ssp.	Desert Senna			
Introduced				
Species Name	Common Name	Declared	WoNS	Environment al Weed
Aira sp.				
Aizoon pubescens	Coastal Galenia			Yes
Asparagus asparagoides f.	Bridal Creeper	Yes	Yes	
Asphodelus fistulosus	Onion Weed			Yes
Avena barbata	Bearded Oat			Yes
Brassica sp.				
Bromus diandrus	Great Brome			
Carrichtera annua	Ward's Weed			Yes
Centaurea calcitrapa	Star Thistle			Yes
Ehrharta longiflora	Annual Veldt Grass			Yes
Euphorbia sp.				
Fraxinus sp.	Ash			
Lactuca serriola f.	Prickly Lettuce			Yes
Lycium ferocissimum	African Boxthorn	Yes	Yes	
Marrubium vulgare	Horehound	Yes		
Piptatherum miliaceum	Rice Millet			Yes
Reseda sp.	Mignonette			



Introduced				
Species Name	Common Name	Declared	WoNS	Environment al Weed
Salvia verbenaca var.	Wild Sage			Yes
Scabiosa atropurpurea	Pincushions			Yes
Schinus molle	Pepper-tree			Yes

Table 98. Scores for Bushland Assessment Vegetation Condition Components for Roadside Marker Site 022.

Attribute	Score
Native Plant Species Diversity	18/30
Weeds	6.5/15
Native Plant Life forms	12/20
Regenerating	6/12
Native: Exotic Understorey Biomass	3/5
Tree Canopy cover	3/5
Hollow-bearing trees	3/5
Fallen Timber/debris	1/5
Mature Tree	2/5
TOTAL VEGETATION CONDITION SCORE	33.34/80

#### 5.6.2 Roadside Marker Site 023 (Sharpe Rd and Pederick Rd)

Only one post was observed at Site 23 and illegal dumping of hard rubbish is prolific (Table 99). A total of 19 native species were identified at Site 23, with three species naturally regenerating. No species threatened under the EPBC Act or NPW Act were identified during the field survey. A total of 19 introduced species were observed with presence of eight environmental weeds and three declared weeds, two of those species listed as WoNS (Table 100). The Site underwent two assessments (23a and 23b) due to the large variation in the vegetation across this Site. The scores for each assessment were then averaged. Overall, Site 23 received a VCS of 24.34 out of 80, reflecting vegetation of low to medium quality (Table 101).

Table 99. Summary of Roadside Marker Site 023.

Site	023
Road	Sharpe and McPharlin Rd
Suburb	Lewiston
Date surveyed	12/1/2023
	Start: 138.6016 -34.5804 (W end of Sharpe Rd, RMS post)
Longitude and Latitude	End: 138.5931 -34.5907 (S end of Pederick Rd, no post)
Posts present?	One post (Sharpe Rd)
Threats	Illegal dumping, rubbish, weed invasion
Vegetation Condition Score	Low to Medium - 24.34
Adjacent land use	Cropping/pasture and residential and remnant native vegetation.
Vegetation association	Eucalyptus porosa and E.oleosa Mixed Mallee Mallee over Callitris gracilis



# **Benchmark Community**

 $\mbox{NA 5}-\mbox{Mallee}$  & Woodlands with Open Chenopod and Sclerophyll Shrub understory.

E end of Sharpe Rd



W end of Sharpe Rd (N Side)



S end of Pederick Rd



**Photo points** 



Table 100. Flora Species List at Roadside Marker Site 023.

Native				
Species Name	Common Name	AUS	SA	
Acacia ligulata	Umbrella Bush			
Acacia pycnantha	Golden Wattle			
Allocasuarina sp.	Sheoak/Oak-bush			
Austrostipa sp.	Spear-grass			
Callitris gracilis	Southern Cypress Pine			
Dampiera rosmarinifolia	Rosemary Dampiera			
Dianella revoluta var.	, ,			
Enchylaena tomentosa var.	Ruby Saltbush			
Enneapogon nigricans				
Eucalyptus oleosa ssp. ampliata				
Eucalyptus porosa	Mallee Box			
Eucalyptus largiflorens	River box			
Melaleuca lanceolata	Dryland Tea-tree			
Maireana brevifolia	Diyianu rea-nee			
	Native Apricat			
Pittosporum angustifolium	Native Apricot			
Rhagodia parabolica Salsola australis	Duglebugh			
	Buckbush			
Duma florulenta	Lignum			
Senna artemisioides ssp.				
Introduced				
Species Name	Common Name	Declared	WoNS	Environme al Weed
Aira sp.	Hair-grass			
Aizoon pubescens	Coastal Galenia			Yes
Asphodelus fistulosus	Onion Weed			Yes
Avena barbata	Bearded Oat			
Brassica sp.				
Bromus diandrus	Great Brome			
Cenchrus clandestinus	Kikuyu			Yes
Cucumis myriocarpus ssp.				
myriocarpus	Paddy Melon			
Ehrharta sp.	Veldt Grass			.,
Lactuca serriola	African David			Yes
Lycium ferocissimum	African Boxthorn	Yes	Yes	
Marrubium vulgare	Horehound	Yes		
Mesembryanthemum sp.	Iceplant			Yes
Palmae sp.	Palm Family			
Piptatherum miliaceum	Rice Millet			Yes
Reichardia tingitana	False Sowthistle			ļ.,,
Salvia verbenaca var.	1071 100			Yes
Sisymbrium sp.	Wild Mustard			
	Silver-leaf Nightshade	Yes	Yes	1
Solanum elaeagnifolium Sonchus oleraceus	Common Sow-thistle			Yes

Table 101. Scores for Bushland Assessment Vegetation Condition Components for Roadside Marker Site 023.

Attribute	Score
Native Plant Species Diversity	12/30
Weeds	7/15
Native Plant Life forms	10/20
Regenerating	4.5/12
Native: Exotic Understorey Biomass	2/5
Tree Canopy cover	2.5/5
Hollow-bearing trees	3/5



Attribute	Score
Fallen Timber/debris	1/5
Mature Tree	4/8
TOTAL VEGETATION CONDITION SCORE	24.34/80

#### 5.6.3 Roadside Marker Site 027 (Boundary Rd)

Both post was observed at Site 27, mowing of the roadside vegetation was common along this Site as well as verge plantings (Table 102). A total of 21 native species were identified at Site 27, with three species naturally regenerating. One state Rare species. *Acacia iteaphylla* (Flinders Ranges Wattle) threatened under the NPW Act was identified during the field survey. A total of 13 introduced species were observed with presence of six environmental weeds and two declared weeds (Table 103). Overall, Site 27 received a VCS of 26 out of 80, reflecting vegetation of low to medium quality (Table 104).

Table 102. Summary of Roadside Marker Site 027.

Site	027
Road	Boundary Rd
Suburb	Lewiston
Date surveyed	12/1/2023
	Start: 138.6299 -34.5904 (N end of Boundary Rd)
Longitude and Latitude	End: 138.6294 -34.5993 (S end of Boundary Rd)
Posts present?	Yes
Threats	Mowing on roadside, rubbish and illegal dumping
Vegetation Condition Score	Low to medium – 26.00
Adjacent land use	Cropping/pasture and residential and remnant native vegetation.
Vegetation association	Eucalyptus porosa and E.socialis Mixed Mallee Mallee over Callitris gracilis
	NA 5 – Mallee & Woodlands with Open Chenopod and Sclerophyll Shrub
Benchmark Community	understory.
Photo points	N end of Boundary Rd (W side)





S end of Boundary Rd (E side)



Table 103. Flora Species List at Roadside Marker Site 027.

Table 103. Flora Species List at Roadside Marker Site 027.			
Native			
Species Name	Common Name	AUS	SA
Acacia iteaphylla	Flinders Ranges Wattle		R
Acacia notabilis	Notable Wattle		
Acacia oswaldii	Umbrella Wattle		
Acacia pycnantha	Golden Wattle		
Acacia sp.	Wattle		
Austrostipa elegantissima	Feather Spear-grass		
Austrostipa sp.	Spear-grass		
Callitris gracilis	Southern Cypress Pine		
Chloris truncata	Windmill Grass		
Dianella revoluta var.			
Dianella sp.	Flax-lily		
Enchylaena tomentosa var.	Ruby Saltbush		
Enneapogon nigricans	Black-head Grass		
Eucalyptus porosa	Mallee Box		
Eucalyptus socialis ssp.	Beaked Red Mallee		
Pittosporum angustifolium	Native Apricot		
Rhagodia parabolica	Mealy Saltbush		
Rytidosperma sp.	Wallaby-grass		
Salsola australis	Buckbush		



Native				
Species Name	Common Name	AUS	SA	
Senna artemisioides ssp.	Desert Senna			
Vittadinia sp.	New Holland Daisy			
Introduced				
Species Name	Common Name	Declared	WoNS	Environment al Weed
Aizoon pubescens	Coastal Galenia			Yes
Avena barbata	Bearded Oat			Yes
Brassica sp.				
Conyza bonariensis	Flax-leaf Fleabane			Yes
Ehrharta sp.	Veldt Grass			
Fraxinus sp.				
Heliotropium sp.	Heliotrope			
Lactuca serriola f.	Prickly Lettuce			Yes
Malva sp.	Mallow			
Marrubium vulgare	Horehound	Yes		
Olea europaea ssp.	Olive	Yes		
Piptatherum miliaceum	Rice Millet			Yes
Sonchus oleraceus	Common Sow-thistle			Yes

Table 104. Scores for Bushland Assessment Vegetation Condition Components for Roadside Marker Site 027.

Attribute	Score
Native Plant Species Diversity	15/30
Weeds	7/15
Native Plant Life forms	8/20
Regenerating	3/12
Native: Exotic Understorey Biomass	3/5
Tree Canopy cover	3/5
Hollow-bearing trees	2/5
Fallen Timber/debris	0.5/5
Mature Tree	4/8
TOTAL VEGETATION CONDITION SCORE	26.00/80



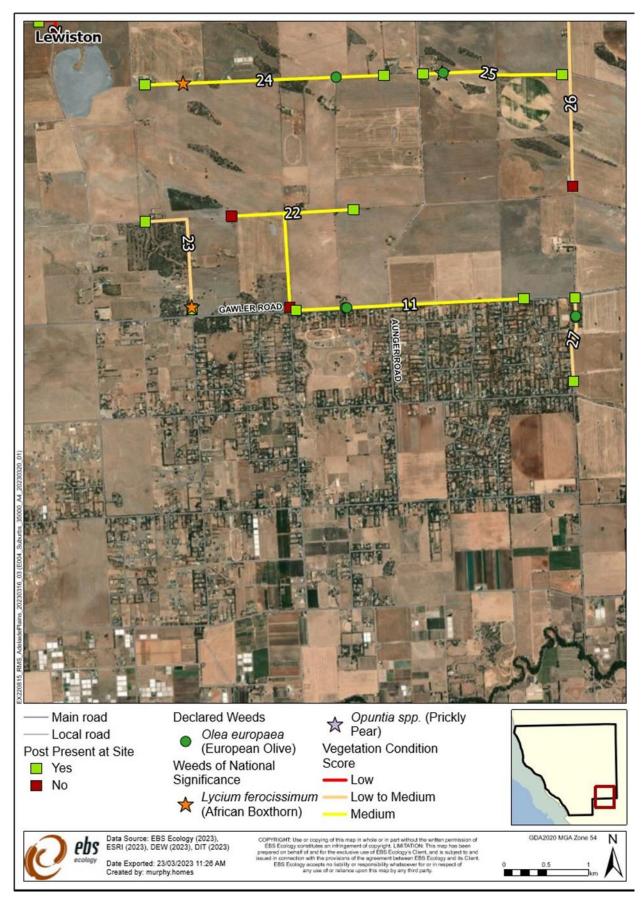


Figure 11. Roadside Marker Sites surveyed across Lewiston.



#### 5.7 Mallala

A total of 11 Site were surveyed across Mallala (Figure 12).

### 5.7.1 Roadside Marker Site 028 (Cawrse Rd)

No post was observed at Site 28 A total of 10 native species were identified, with two species naturally regenerating (Table 105). A total of six introduced species were observed with presence of three environmental weeds and two declared weeds both listed as WoNs. No species threatened under the NPW Act or the EPBC Act was observed (Table 106). Overall, Site 28 received a VCS of 23.77 out of 80, reflecting vegetation of low to medium quality (Table 107).

Table 105. Summary of Roadside Marker Site 028.

Table 105. Summary of Road	le 105. Summary of Roadside Marker Site 028.		
Site	028		
Road	Cawrse Rd		
Suburb	Mallala		
Date surveyed	09/01/2023		
	<b>Start:</b> 138.4799 -34.474 (W end of Cawrse Rd)		
Longitude and Latitude	<b>End:</b> 138.4905 -34.474 (E end of Cawrse Rd)		
Posts present?	No		
Threats	Weed invasion		
Vegetation Condition Score	Low to medium - 23.77		
Adjacent land use	Cropping/agriculture		
Vegetation association	Senna artemisioides ssp. X coriacea Shrubland		
	NA 5 – Mallee & Woodlands with Open Chenopod and Sclerophyll Shrub		
Benchmark Community	understory.		
	W end of Cawrse Rd		
Photo points	E end of Cawrse Rd		





Table 106. Flora Species List at Roadside Marker Site 028.

Table 106. Flora Species List at Roadside Marker Site 028.				
Native				
Species Name	Common Name	AUS	SA	
Acacia hakeoides	Hakea Wattle			
Acacia notabilis	Notable Wattle			
Acacia saligna	Golden Wreath Wattle			
Alectryon oleifolius ssp. canescens	Bullock Bush			
Austrostipa sp.	Spear-grass			
Enneapogon nigricans	Black-head Grass			
Eucalyptus porosa	Mallee Box			
Pittosporum angustifolium	Native Apricot			
Senna artemisioides ssp. petiolaris				
Senna artemisioides ssp. X coriacea	Broad-leaf Desert Senna			
Introduced				
Species Name	Common Name	Declared	WoNS	Environment al Weed
Brassica sp.				
Centaurea calcitrapa	Star Thistle			Yes
Conyza bonariensis	Flax-leaf Fleabane			Yes
Lycium ferocissimum	African Boxthorn	Yes	Yes	
Schinus molle	Pepper-tree			Yes
Sisymbrium sp.	Wild Mustard			
Solanum elaeagnifolium	Silver-leaf Nightshade	Yes	Yes	

Table 107. Scores for Bushland Assessment Vegetation Condition Components for Roadside Marker Site 028.

Attribute	Score
Native Plant Species Diversity	15/30
Weeds	11.5/15
Native Plant Life forms	12/20
Regenerating	3/12
Native: Exotic Understorey Biomass	3/5
Tree Canopy cover	1/5
Hollow-bearing trees	1/5
Fallen Timber/debris	0.5/5



Attribute	Score
Mature Tree	1/5
TOTAL VEGETATION CONDITION SCORE	23.77/80

#### 5.7.2 Roadside Marker Site 029 (Limerock Rd)

No post was observed at Site 29 (Table 108). A total of 18 native species were identified, with four species naturally regenerating. A total of 13 introduced species were observed with presence of Environmental weeds and one Declared weed (Table 109). No species threatened under the NPW Act or the EPBC Act was observed. Overall, Site 29 received a VCS of 40.40 out of 80, reflecting vegetation of medium quality (Table 110).

Table 108. Summary of Roadside Marker Site 029.

Site	029		
Road	Limerock Rd		
Suburb	Mallala		
Date surveyed	12/01/2023		
	<b>Start:</b> 138.457 -34.4874 (E end of Limerock Rd)		
Longitude and Latitude	End: 138.4384 -34.4874(W end of Limerock Rd)		
Posts present?	No		
Threats	Weed invasion and rubbish		
Vegetation Condition Score	Medium - 40.40		
Adjacent land use	Cropping/agriculture		
Vegetation association	Eucalyptus odorata +/- E. socialis Mixed Mallee over Nitraria billardierei		
	NA 5 – Mallee & Woodlands with Open Chenopod and Sclerophyll Shrub		
Benchmark Community	understory.		
	E end of Limerock Rd		
Photo points	W end of Limerock Rd		





Native				
Species Name	Common Name	AUS	SA	
Acacia acinacea	Wreath Wattle			
Acacia cyclops	Western Coastal Wattle			
Acacia notabilis	Notable Wattle			
Allocasuarina verticillata	Drooping Sheoak			
Austrostipa nodosa	Tall Spear-grass			
Austrostipa sp.	Spear-grass			
Dianella revoluta var.				
Enchylaena tomentosa var.	Ruby Saltbush			
Eucalyptus odorata	Peppermint Box			
Eucalyptus socialis	Beaked Mallee			
Melaleuca brevifolia	Short-leaf Honey-myrtle			
Nitraria billardierei	Nitre-bush			
Pittosporum angustifolium	Native Apricot			
Rhagodia candolleana ssp.	Sea-berry Saltbush			
Rytidosperma caespitosum	Common Wallaby-grass			
Sclerolaena diacantha	Grey Bindyi			
Senna artemisioides ssp.	Desert Senna			
Zygophyllum				
aurantiacum/eremaeum	Shrubby Twinleaf			
Introduced				
Species Name	Common Name	Declared	WoNS	Environmen al Weed
Aira sp.	Hair-grass			
Asphodelus fistulosus	Onion Weed			Yes
Asteriscus spinosus	Golden Pallensis			Yes
Avena barbata	Bearded Oat			Yes
Brassica sp.				
Centaurea calcitrapa	Star Thistle			Yes
Gazania linearis	Gazania			
Lactuca serriola f.	Prickly Lettuce			Yes
Marrubium vulgare	Horehound	Yes		
Piptatherum miliaceum	Rice Millet			Yes
Reichardia tingitana	False Sowthistle			
Salvia verbenaca var.	Wild Sage			Yes
Sisymbrium sp.	Wild Mustard			



Table 110. Scores for Bushland Assessment Vegetation Condition Components for Roadside Marker Site 029.

Attribute	Score
Native Plant Species Diversity	18/30
Weeds	9/15
Native Plant Life forms	12/20
Regenerating	6/12
Native: Exotic Understorey Biomass	3/5
Tree Canopy cover	4/5
Hollow-bearing trees	3/5
Fallen Timber/debris	1.5/5
Mature Tree	6/8
TOTAL VEGETATION CONDITION SCORE	40.40/80

#### 5.7.3 Roadside Marker Site 030 (Frost Rd)

No post was observed at Site 30, with large, degraded patch of native vegetation degraded (Table 111). A total of 17 native species were identified, with two species naturally regenerating. A total of 17 introduced species were observed with presence of eight environmental weeds and three declared weed (

Table 112Table 112) two of which are listed as WoNS. No species threatened under the NPW Act or the EPBC Act was observed. Overall, Site 30 received a VCS of 18.38 out of 80, reflecting vegetation of low quality (Table 113).

Table 111. Summary of Roadside Marker Site 030.

Site	030
Road	Frost Rd
Suburb	Mallala
Date surveyed	09/01/2023
	<b>Start:</b> 138.4367 -34.4598 (N end of Frost Rd)
Longitude and Latitude	End: 138.4367 -34.4851 (E end of Frost Rd)
Posts present?	No
Threats	Weed invasion, cleared vegetation around gates, pest invasions (hare)
Vegetation Condition Score	Low – 18.38
Adjacent land use	Cropping/agriculture
Vegetation association	Eucalyptus socialis Mallee over Acacia hakeoides
	NA 5 – Mallee & Woodlands with Open Chenopod and Sclerophyll Shrub
Benchmark Community	understory.
Photo points	N end of Frost Rd





S end of Frost Rd



Table 112. Flora Species List at Roadside Marker Site 030.

Native			
Species Name	Common Name	AUS	SA
Acacia hakeoides	Hakea Wattle		
Callitris gracilis	Southern Cypress Pine		
Dianella sp.	Flax-lily		
Enchylaena tomentosa var.	Ruby Saltbush		
Eucalyptus oleosa ssp. ampliata			
Eucalyptus porosa	Mallee Box		
Eucalyptus socialis ssp.	Beaked Red Mallee		
Exocarpos aphyllus	Leafless Cherry		
Melaleuca brevifolia	Short-leaf Honey-myrtle		
Melaleuca lanceolata	Dryland Tea-tree		
Nitraria billardierei	Nitre-bush		
Pittosporum angustifolium	Native Apricot		
Rytidosperma sp.	Wallaby-grass		
Salsola australis	Buckbush		
Santalum acuminatum	Quandong		
Senna artemisioides ssp. petiolaris			
Senna artemisioides ssp. X coriacea	Broad-leaf Desert Senna		
Introduced			



Species Name	Common Name	Declared	WoNS	Environment al Weed
Avena barbata	Bearded Oat			Yes
Brassica sp.				
Carrichtera annua	Ward's Weed			Yes
Cenchrus longisetus				
Centaurea calcitrapa	Star Thistle			Yes
Lactuca serriola f.	Prickly Lettuce			Yes
Lolium perenne	Perennial Ryegrass			Yes
Lycium ferocissimum	African Boxthorn	Yes	Yes	
Marrubium vulgare	Horehound	Yes		
Mesembryanthemum sp.				Yes
Oncosiphon suffruticosum	Calomba Daisy			Yes
Piptatherum miliaceum	Rice Millet			Yes
Prunus sp.	Plum			
Reichardia tingitana	False Sowthistle			
Schinus molle	Pepper-tree			Yes
Sisymbrium sp.	Wild Mustard			
Tamarix aphylla	Athel Pine	Yes	Yes	

Table 113. Scores for Bushland Assessment Vegetation Condition Components for Roadside Marker Site 030.

Attribute	Score
Native Plant Species Diversity	9/30
Weeds	5.5/15
Native Plant Life forms	12/20
Regenerating	3/12
Native: Exotic Understorey Biomass	2/5
Tree Canopy cover	2/5
Hollow-bearing trees	1/5
Fallen Timber/debris	1/5
Mature Tree	2/8
TOTAL VEGETATION CONDITION SCORE	18.38/80

#### 5.7.4 Roadside Marker Site 031 (Franks Rd)

No post was observed at Site 31 (Table 114). A total of 15 native species were identified, with one species showing natural regeneration. A total of four introduced species were observed with presence of only environmental weeds (Table 115). The State Rare *Acacia iteaphylla* (Flinders Ranges Wattle) threatened under the NPW Act was observed on Site. Overall, Site 31 received a VCS of 39.68 out of 80, reflecting vegetation of medium quality (Table 116).

Table 114. Summary of Roadside Marker Site 031.

Site	031
Road	Franks Rd
Suburb	Mallala
Date surveyed	16/12/2022
	Start: 138.4744 -34.4214
Longitude and Latitude	<b>End:</b> 138.4753 -34.4362
Posts present?	No



	Adelaide Plains Council Roadside Marker Scheme Ecological Assessin				
Threats	Weed invasion and illegal dumping (tyres)				
Vegetation Condition Score	Medium – 39.68				
Adjacent land use	Cropping/agriculture				
Vegetation association	Eucalyptus socialis Mallee over Senna artemisioides ssp. X coriacea				
	NA 5 – Mallee & Woodlands with Open Chenopod and Sclerophyll Shrub				
Benchmark Community	understory.				
	N end of Franks Rd				
	S end, W side of Franks Rd				

Table 115. Flora Species List at Roadside Marker Site 031.

Native				
Species Name	Common Name	AUS	SA	
Acacia hakeoides	Hakea Wattle			
Acacia iteaphylla	Flinders Ranges Wattle		R	
Acacia ligulata	Umbrella Bush			
Acacia notabilis	Notable Wattle			
Acacia oswaldii	Umbrella Wattle			
Austrostipa sp.	Spear-grass			
Enchylaena tomentosa var.	Ruby Saltbush			
Eucalyptus odorata	Peppermint Box			



Photo points

Native				
Species Name	Common Name	AUS	SA	
Eucalyptus socialis ssp.	Beaked Red Mallee			
Melaleuca lanceolata	Dryland Tea-tree			
Pittosporum angustifolium	Native Apricot			
Rytidosperma sp.	Wallaby-grass			
Santalum acuminatum	Quandong			
Senna artemisioides ssp. X				
coriacea	Broad-leaf Desert Senna			
Vittadinia cuneata var.	Fuzzy New Holland Daisy			
Introduced				
Species Name	Common Name	Declared	WoNS	Environment al Weed
Avena barbata	Bearded Oat			Yes
Carrichtera annua	Ward's Weed			Yes
Centaurea calcitrapa	Star Thistle			Yes
Sonchus oleraceus	Common Sow-thistle			Yes

Table 116. Scores for Bushland Assessment Vegetation Condition Components for Roadside Marker Site 031.

Attribute	Score
Native Plant Species Diversity	24/30
Weeds	12/15
Native Plant Life forms	12/20
Regenerating	6/12
Native: Exotic Understorey Biomass	3/5
Tree Canopy cover	3/5
Hollow-bearing trees	1/5
Fallen Timber/debris	1/5
Mature Tree	2/8
TOTAL VEGETATION CONDITION SCORE	39.68/80

#### 5.7.5 Roadside Marker Site 032 (Ross Rd)

Both posts were observed at Site 32 (Table 117). A total of seven native species were identified, with no natural regeneration observed. A total of five introduced species were observed with the presence of only environmental weeds (Table 118). No threatened species protected under the NPW Act and the EPBC Act were observed on Site. Overall, Site 32 received a VCS of 23.33 out of 80, reflecting vegetation of low quality (Table 119).

Table 117. Summary of Roadside Marker Site 032.

Site	032
Road	Ross Rd
Suburb	Mallala
Date surveyed	14/12/2022
	Start: 138.4813 -34.4077 (W end of Ross Rd)
Longitude and Latitude	End: 138.4836 -34.4078 (E end of Ross Rd)
Posts present?	Yes



	, and the second se
Threats	Weed invasion
Vegetation Condition Score	Low – 23.33
Adjacent land use	Cropping/agriculture
Vegetation association	Eucalyptus socialis over Senna artemisioides ssp. X coriacea and Acacia oswaldii
	NA 5 – Mallee & Woodlands with Open Chenopod and Sclerophyll Shrub
Benchmark Community	understory.
	W end of Ross Rd on the N side
	DCM 032
	E end of Ross Rd on the S side
Photo points	

Table 118. Flora Species List at Roadside Marker Site 032.

Native				
Species Name	Common Name	AUS	SA	
Acacia oswaldii	Umbrella Wattle			
Austrostipa sp.	Spear-grass			
Enchylaena tomentosa var.	Ruby Saltbush			
Eucalyptus socialis ssp.	Beaked Red Mallee			
Melaleuca lanceolata	Dryland Tea-tree			
Rhagodia parabolica	Mealy Saltbush			
Senna artemisioides ssp. X coriacea	Broad-leaf Desert Senna			



Introduced				
Species Name	Common Name	Declared	WoNS	Environment al Weed
Asphodelus fistulosus	Onion Weed			Yes
Avena barbata	Bearded Oat			Yes
Carrichtera annua	Ward's Weed			Yes
Sisymbrium sp.	Wild Mustard			Yes
Sonchus oleraceus	Common Sow-thistle			Yes

WoNS = Weeds of National Significance (LSA Act). AUS= National threatened species under the EPBC Act; SA= State threatened species under the NPW Act; RA= Rare, EN=Endangered, VU=Vulnerable, CE= Critically Endangered.

Table 119. Scores for Bushland Assessment Vegetation Condition Components for Roadside Marker Site 032.

Attribute	Score
Native Plant Species Diversity	15/30
Weeds	13/15
Native Plant Life forms	8/20
Regenerating	0/12
Native: Exotic Understorey Biomass	2/5
Tree Canopy cover	3/5
Hollow-bearing trees	3/5
Fallen Timber/debris	0.5/5
Mature Tree	2/8
TOTAL VEGETATION CONDITION SCORE	23.33/80

# 5.7.6 Roadside Marker Site 035 (Hill Rd)

No posts were observed at Site 35 (Table 120). A total of 20 native species were identified, with four species naturally regenerating. A total of 16 introduced species were observed with the presence 12 environmental weeds and four declared weeds, all of which are listed as WoNS (Table 121). No threatened species protected under the NPW Act and the EPBC Act were observed on Site. Overall, Site 35 received a VCS of 30.37 out of 80, reflecting vegetation of a low to medium quality (Table 122).

Table 120. Summary of Roadside Marker Site 035.

Site	035
Road	Hill Rd
Suburb	Mallala
Date surveyed	9/01/2023
	<b>Start:</b> 138.4909 - 34.4563 (S end of Hall Rd)
Longitude and Latitude	End: 138.4922 -34.4387 (N end of Hall Rd)
Posts present?	No
Threats	Weed invasion, rubbish, native vegetation clearance
Vegetation Condition Score	Low to Medium – 30.37
Adjacent land use	Cropping/agriculture
Vegetation association	Eucalyptus socialis Mallee over Senna spp.



**Benchmark Community** 

 $\mbox{NA 5}-\mbox{Mallee}$  & Woodlands with Open Chenopod and Sclerophyll Shrub understory.

S end of Hill Rd



N end of Hill Rd



Photo points

Table 121. Flora Species List at Roadside Marker Site 035.

Native				
Species Name	Common Name	AUS	SA	
Acacia hakeoides	Hakea Wattle			
Acacia notabilis	Notable Wattle			
Acacia oswaldii	Umbrella Wattle			
Acacia wilhelmiana	Dwarf Nealie			
Alectryon oleifolius ssp.				
canescens	Bullock Bush			
Austrostipa sp.	Spear-grass			
Dianella sp.	Flax-lily			
Enchylaena tomentosa var.	Ruby Saltbush			
Enneapogon nigricans	Black-head Grass			
Eucalyptus phenax ssp.				
Eucalyptus socialis ssp.	Beaked Red Mallee			
Nitraria billardierei	Nitre-bush			
Pittosporum angustifolium	Native Apricot			
Rhagodia candolleana ssp.	Sea-berry Saltbush			



Native				
Species Name	Common Name	AUS	SA	
Rhagodia parabolica	Mealy Saltbush			
Rytidosperma sp.	Wallaby-grass			
Santalum acuminatum	Quandong			
Sclerolaena sp.	Bindyi			
Senna artemisioides ssp. X coriacea	Broad-leaf Desert Senna			
Senna sp.	Senna			
Introduced				
Species Name	Common Name	Declared	WoNS	Environment al Weed
Asparagus asparagoides f.		Yes	Yes	
Asphodelus fistulosus				Yes
Avena barbata	Bearded Oat			Yes
Carrichtera annua	Ward's Weed			Yes
Centaurea calcitrapa	Star Thistle			Yes
Conyza bonariensis	Flax-leaf Fleabane			Yes
Lactuca serriola f.	Prickly Lettuce			Yes
Lolium perenne	Perennial Ryegrass			Yes
Lycium ferocissimum	African Boxthorn	Yes	Yes	
Piptatherum miliaceum	Rice Millet			Yes
Salvia verbenaca var.	Wild Sage			Yes
Scabiosa atropurpurea	Pincushion			Yes
Sisymbrium sp.	Wild Mustard			Yes
Solanum elaeagnifolium	Silver-leaf Nightshade	Yes	Yes	
Solanum nigrum	Black Nightshade			Yes
Tamarix aphylla	Athel Pine	Yes	Yes	

Table 122. Scores for Bushland Assessment Vegetation Condition Components for Roadside Marker Site 035.

Attribute	Score
Native Plant Species Diversity	21/30
Weeds	9/15
Native Plant Life forms	12/20
Regenerating	3/12
Native: Exotic Understorey Biomass	3/5
Tree Canopy cover	2/5
Hollow-bearing trees	1/5
Fallen Timber/debris	0.5/5
Mature Tree	2/8
TOTAL VEGETATION CONDITION SCORE	30.37/80

#### 5.7.7 Roadside Marker Site 036 (Earl Rd)

No posts were observed at Site 36. A total of 15 native species were identified, with two species naturally regenerating. A total of 10 introduced species were observed with the presence six environmental weeds and three declared weed all of which are listed as WoNS (Table 124). No threatened species protected under the NPW Act and the EPBC Act were observed on Site. Overall, Site 36 received a VCS of 26.13 out of 80, reflecting vegetation of low to medium quality (Table 125).



Table 123. Summary of Roadside Marker Site 036.

Site	036
Road	Earl Rd
Suburb	Mallala
Date surveyed	16/12/2022
	<b>Start:</b> 138.4753 -34.4567 (S end of (Earl Rd)
Longitude and Latitude	End: 138.4752 -34.44 (N end of Earl Rd)
Posts present?	No
Threats	Weed invasion
Vegetation Condition Score	Low to Medium – 26.13
Adjacent land use	Cropping/agriculture
Vegetation association	Eucalyptus gracilis Mallee over Senna artemisioides ssp. X coriacea
Benchmark Community	NA 5 – Mallee & Woodlands with Open Chenopod and Sclerophyll Shrub understory.
	S end of Earl Rd



N end of Earl Rd



Photo points



Table 124. Flora Species List at Roadside Marker Site 036.

Native				
Species Name	Common Name	AUS	SA	
Acacia hakeoides	Hakea Wattle			
Acacia notabilis	Notable Wattle			
Acacia oswaldii	Umbrella Wattle			
Atriplex semibaccata	Berry Saltbush			
Austrostipa sp.	Spear-grass			
Eucalyptus dumosa	White Mallee			
Eucalyptus gracilis	Yorrell			
Eucalyptus odorata	Peppermint Box			
Exocarpos aphyllus	Leafless Cherry			
Geijera linearifolia	Sheep Bush			
Maireana brevifolia	Short-leaf Bluebush			
Pittosporum angustifolium	Native Apricot			
Santalum acuminatum	Quandong			
Senna artemisioides ssp.	Desert Senna			
Senna artemisioides ssp. X				
coriacea	Broad-leaf Desert Senna			
Introduced				
Species Name	Common Name	Declared	WoNS	Environment al Weed
Asphodelus fistulosus	Onion Weed			Yes
Avena barbata	Bearded Oat			Yes
Carrichtera annua	Ward's Weed			Yes
Conyza bonariensis	Flax-leaf Fleabane			Yes
Lolium perenne	Perennial Ryegrass			Yes
Lycium ferocissimum	African Boxthorn	Yes	Yes	
Opuntia stricta	Erect Prickly Pear	Yes	Yes	
Reseda lutea	Cut-leaf Mignonette			
Sonchus oleraceus	Common Sow-thistle			Yes
Tamarix aphylla	Athel Pine	Yes	Yes	

Table 125. Scores for Bushland Assessment Vegetation Condition Components for Roadside Marker Site 036.

Attribute	Score	
Native Plant Species Diversity	18/30	
Weeds	9.5/15	
Native Plant Life forms	12/20	
Regenerating	3/12	
Native: Exotic Understorey Biomass	2/5	
Tree Canopy cover	2/5	
Hollow-bearing trees	1/5	
Fallen Timber/debris	1/5	
Mature Tree	2/8	
TOTAL VEGETATION CONDITION SCORE	26.13/80	

## 5.7.8 Roadside Marker Site 037 (Hall Rd)

No posts were observed at Site 37 (Table 126). A total of 16 native species were identified, with only one species showing signs of natural regenerating. A total of 11 introduced species were observed with the



presence 10 Environmental weeds, no declared weeds were observed at Site (Table 127). No threatened species protected under the NPW Act and the EPBC Act were observed on Site. Overall, Site 37 received a VCS of 27.29 out of 80, reflecting vegetation of low to medium quality (Table 128).

Table 126. Summary of Roadside Marker Site 037.

Site	037
Road	Hall Rd
Suburb	Mallala
Date surveyed	16/12/2022
	<b>Start:</b> 138.4566 -34.4365 (S end of Hall Rd, W side)
Longitude and Latitude	End: 138.4567 -34.4131 (N end of Hall Rd)
Posts present?	One
Threats	Weed invasion, mowing on road verge.
Vegetation Condition Score	Low to Medium – 27.29
Adjacent land use	Cropping/agriculture
Vegetation association	Acacia ligulata shrubland +/- Eucalyptus socialis
Benchmark Community	NA 5 – Mallee & Woodlands with Open Chenopod and Sclerophyll Shrub understory.
	S end of Hall Rd, W side
Photo points	N end of Hall Rd





Table 127. Flora Species List at Roadside Marker Site 037.

Native				
Species Name	Common Name	AUS	SA	
Acacia ligulata	Umbrella Bush			
Acacia notabilis	Notable Wattle			
Acacia nyssophylla	Spine Bush			
Acacia oswaldii	Umbrella Wattle			
Alectryon oleifolius ssp.				
canescens	Bullock Bush			
Austrostipa sp.	Spear-grass			
Callitris gracilis	Southern Cypress Pine			
Cassytha sp.	Dodder-laurel			
Enchylaena tomentosa var.				
tomentosa	Ruby Saltbush			
Eremophila longifolia	Weeping Emubush			
Eucalyptus socialis ssp.	Beaked Red Mallee			
Maireana brevifolia	Short-leaf Bluebush			
Pittosporum angustifolium	Native Apricot			
Rytidosperma sp.	Wallaby-grass			
Senna artemisioides ssp. X artemisioides	Silver Senna			
Senna artemisioides ssp. X coriacea	Broad-leaf Desert Senna			
Introduced				
Species Name	Common Name	Declared	WoNS	Environment al Weed
Avena barbata	Bearded Oat			Yes
Bromus diandrus	Great Brome			
Cenchrus clandestinus	Kikuyu			Yes
Centaurea calcitrapa	Star Thistle			Yes
Cynodon dactylon var.	Couch			Yes
Heliotropium europaeum	Common Heliotrope			Yes
Lactuca serriola f.	Prickly Lettuce			Yes
Mesembryanthemum sp.	Iceplant			Yes
Piptatherum miliaceum	Rice Millet			Yes
Sisymbrium sp.	Wild Mustard			Yes
Sonchus oleraceus	Common Sow-thistle			Yes

Table 128. Scores for Bushland Assessment Vegetation Condition Components for Roadside Marker Site 037.

Attribute	Score
Native Plant Species Diversity	18/30



Attribute	Score
Weeds	12/15
Native Plant Life forms	12/20
Regenerating	3/12
Native: Exotic Understorey Biomass	3/5
Tree Canopy cover	1/5
Hollow-bearing trees	1/5
Fallen Timber/debris	1/5
Mature Tree	2/8
TOTAL VEGETATION CONDITION SCORE	27.29/80

#### 5.7.9 Roadside Marker Site 038 (Hall Rd and Ross Road)

One post was observed at the Hall Rd and the Calomba Rd intersection of the E side of the Rd (Table 129). A total of 26 native species were identified at Site 38, with four species naturally regenerating. A total of 13 introduced species were observed with the presence of three declared weeds, which included *Fraxinus angustifolia* (Narrowed-leaved Ash), *Lycium ferocissimum* (African Boxthorn), *Solanum elaeagnifolium* (Silver-leaf Nightshade) (Table 130). No threatened species protected under the NPW Act and the EPBC Act were observed on Site. A majority of Calomba Rd showed signs of disturbance. Therefore, this section of the road was assessed separately from the rest of the Site. Therefore, the VCS have been averaged to get a condition of the whole Site. Overall, Site 38 received a VCS of 30.39 out of 80, reflecting vegetation of a low to medium quality (Table 131).

Table 129. Summary of Roadside Marker Site 038.

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N end of Hall Rd, E side



E end Ross Rd, N side



W end of Ross Rd, N side





Table 130. Flora Species List at Roadside Marker Site 038.

Native				
Species Name	Common Name	AUS	SA	
Acacia hakeoides	Hakea Wattle			
Acacia oswaldii	Umbrella Wattle			
Alectryon oleifolius ssp.				
canescens	Bullock Bush			
Allocasuarina verticillata	Drooping Sheoak			
Austrostipa sp.	Spear-grass			
Chloris truncata	Windmill Grass			
Dianella revoluta var.				
Enchylaena tomentosa var.	Ruby Saltbush			
Eucalyptus porosa	Mallee Box			
Eucalyptus socialis ssp.	Beaked Red Mallee			
Exocarpos aphyllus	Leafless Cherry			
Geijera linearifolia	Sheep Bush			
Lomandra effusa	Scented Mat-rush			
Lomandra multiflora ssp.	Many-flower Mat-rush			
Maireana brevifolia	Short-leaf Bluebush			
Nitraria billardierei	Nitre-bush			
Olearia teretifolia	Cypress Daisy-bush			
Pittosporum angustifolium	Native Apricot			
Roepera aurantiaca ssp.	•			
aurantiaca	Shrubby Twinleaf			
Rytidosperma sp.	Wallaby-grass			
Sclerolaena diacantha	Grey Bindyi			
Senna artemisioides ssp.	Desert Senna			
Senna artemisioides ssp. petiolaris				
Senna artemisioides ssp. X coriacea	Broad-leaf Desert Senna			
Solanum esuriale	Quena			
Vittadinia cuneata var.	Fuzzy New Holland Daisy			
Introduced				
Species Name	Common Name	Declared	WoNS	Environment al Weed
Avena barbata	Bearded Oat			Yes
Carrichtera annua	Ward's Weed			Yes
Centaurea calcitrapa	Star Thistle			Yes
Fraxinus angustifolia ssp.	Narrow-leaved Ash	Yes		
Hordeum vulgare	Barley			Yes
Lactuca serriola f. serriola	Prickly Lettuce			Yes
Lycium ferocissimum	African Boxthorn	Yes	Yes	



Native				
Species Name	Common Name	AUS	SA	
Piptatherum miliaceum	Rice Millet			Yes
Salvia verbenaca var.	Wild Sage			Yes
Scabiosa atropurpurea	Pincushion			Yes
Sisymbrium officinale	Hedge Mustard			
Solanum elaeagnifolium	Silver-leaf Nightshade	Yes	Yes	
Sonchus oleraceus	Common Sow-thistle			Yes

WoNS = Weeds of National Significance (LSA Act). AUS= National threatened species under the EPBC Act; SA= State threatened species under the NPW Act; RA= Rare, EN=Endangered, VU=Vulnerable, CE= Critically Endangered.

Table 131. Averaged scores for Bushland Assessment Vegetation Condition Components for Roadside Marker Site 038.

Attribute	Score
Native Plant Species Diversity	18/30
Weeds	8.75/15
Native Plant Life forms	12/20
Regenerating	3/12
Native: Exotic Understorey Biomass	2.5/5
Tree Canopy cover	3/5
Hollow-bearing trees	1.5/5
Fallen Timber/debris	21.255
Mature Tree	2.5/8
TOTAL VEGETATION CONDITION SCORE	30.39/80

## 5.7.10 Roadside Marker Site 049 (Turner Rd and Old Dublin Rd)

No post was observed at Site 49 (Table 132). A total of 22 native species were identified, with three species naturally regenerating. A total of 14 introduced species were observed with the presence of three declared weeds, which includes *Lycium ferocissimum* (African Boxthorn) and *Tamarix aphylla* (Athel Pine) (Table 133). No threatened species protected under the NPW Act and the EPBC Act were observed on Site. Overall, Site 49 received a VCS of 38.78 out of 80, reflecting medium quality vegetation (Table 134).

Table 132. Summary of Roadside Marker Site 049.

Site	049
Road	Turner Rd and Old Dublin Rd
Suburb	Mallala
Date surveyed	9/01/2023
	<b>Start:</b> 138.4567 -34.4444 (N end of Turner Rd)
Longitude and Latitude	End: 138.4944 -34.457 (E end of Old Dublin Rd on S side)
Posts present?	No
Threats	Weed invasion, native vegetation clearance (mowing), roadside trash.
Vegetation Condition	Medium – 38.78
Score	
Adjacent land use	Cropping/agriculture



	Eucalyptus leptophylla and E. socialis and E. odorata Mallee over Pittosporum
Vegetation association	angustifolium.
	NA 5 – Mallee & Woodlands with Open Chenopod and Sclerophyll Shrub
Benchmark Community	understory.
_	N end of Turner Rd
	E end of Old Dublin Rd

Table 133. Flora Species List at Roadside Marker Site 049.

Native			
Species Name	Common Name	AUS	SA
Acacia hakeoides	Hakea Wattle		
Acacia notabilis	Notable Wattle		
Acacia oswaldii	Umbrella Wattle		
Acacia wilhelmiana	Dwarf Nealie		
Alectryon oleifolius ssp.			
canescens	Bullock Bush		
Allocasuarina verticillata	Drooping Sheoak		
Austrostipa sp.	Spear-grass		
Dianella revoluta var.			
Enchylaena tomentosa var.	Ruby Saltbush		
Enneapogon nigricans	Black-head Grass		
Eucalyptus leptophylla	Narrow-leaf Red Mallee		
Eucalyptus odorata	Peppermint Box		
Eucalyptus socialis ssp.	Beaked Red Mallee		
Grevillea huegelii	Comb Grevillea		



Melaleuca brevifolia	Short-leaf Honey-myrtle			
Melaleuca lanceolata	Dryland Tea-tree			
Nitraria billardierei	Nitre-bush			
Pittosporum angustifolium	Native Apricot			
Rhagodia candolleana ssp.	Sea-berry Saltbush			
Santalum acuminatum	Quandong			
Sclerolaena diacantha	Grey Bindyi			
Senna artemisioides ssp.				
petiolaris				
Senna artemisioides ssp. X				
coriacea	Broad-leaf Desert Senna			
Introduced				
Species Name	Common Name	Declared	WoNS	Environment al Weed
Avena barbata	Bearded Oat			Yes
Brassica sp.				
Bromus diandrus	Great Brome			
Carrichtera annua	Ward's Weed			Yes
Centaurea calcitrapa	Star Thistle			Yes
Conyza bonariensis	Flax-leaf Fleabane			Yes
Lactuca serriola f.	Prickly Lettuce			Yes
Lolium perenne	Perennial Ryegrass			Yes
Lycium ferocissimum	African Boxthorn	Yes	Yes	
Reichardia tingitana	False Sowthistle			
Reseda lutea	Cut leaf mignonette			
Schinus molle	Pepper-tree			Yes
Introduced				
Species Name	Common Name	Declared	WoNS	Environment al Weed
Sisymbrium sp.	Wild Mustard			
Solanum nigrum	Black Nightshade			Yes
Tamarix aphylla	Athel Pine	Yes	Yes	

Table 134. Averaged scores for Bushland Assessment Vegetation Condition Components for Roadside Marker Site 049.

Attribute	Score
Native Plant Species Diversity	24/30
Weeds	9/15
Native Plant Life forms	12/20
Regenerating	3/12
Native: Exotic Understorey Biomass	3/5
Tree Canopy cover	3/5
Hollow-bearing trees	3/5
Fallen Timber/debris	1/5
Mature Tree	4/8
TOTAL VEGETATION CONDITION SCORE	38.78/80

## 5.7.11 Roadside Marker Site 055 (Cawrse Rd)

No post was observed at Site 55 (Table 135). A total of 16 native species were identified, with two species naturally regenerating. A total of 14 introduced species were observed with the presence of four declared weeds and eight environmental weeds (Table 136Table 135). No threatened species protected under the NPW Act and the EPBC Act were observed on Site. Overall, Site 55 received a VCS of 24.87 out of 80, reflecting low quality vegetation (Table 137).



Table 135. Summary of Roadside Marker Site 055.

Site	055
Road	Cawrse Rd
Suburb	Mallala
Date surveyed	9/01/2023
	Start: 138.4434 -34.474 (W end of Cawrse Rd)
Longitude and Latitude	End: 138.4581 -34.474 (W end of Cawrse Rd)
Posts present?	No
Threats	Clearance near gates, weed invasions and garden escapes.
Vegetation Condition Score	Low – 24.87
Adjacent land use	Cropping/agriculture
	Eucalyptus spp. Mixed Mallee over Pittosporum angustifolium and Chenopod
Vegetation association	shrubs.
	NA 5 – Mallee & Woodlands with Open Chenopod and Sclerophyll Shrub
Benchmark Community	understory.
	W end of Cawrse Rd



E end of Cawrse Rd





Table 136. Flora Species List at Roadside Marker Site 055.

Native					
Species Name	Common Name	AUS	SA		
Acacia hakeoides	Hakea Wattle				
Acacia wilhelmiana	Dwarf Nealie				
Austrostipa sp.	Spear-grass				
Dianella brevicaulis	Short-stem Flax-lily				
Enchylaena tomentosa var.	Ruby Saltbush				
Eucalyptus dumosa	White Mallee				
Eucalyptus gracilis	Yorrell				
Eucalyptus porosa	Mallee Box				
Eucalyptus socialis ssp.	Beaked Red Mallee				
Melaleuca brevifolia	Short-leaf Honey-myrtle				
Nitraria billardierei	Nitre-bush				
Pittosporum angustifolium	Native Apricot				
Rhagodia candolleana ssp.	Sea-berry Saltbush				
Rhagodia parabolica	Mealy Saltbush				
Sclerolaena diacantha	Grey Bindyi				
Tetragonia sp.	False Spinach				
Introduced					
Species Name	Common Name	Declared	WoNS	Environment al Weed	
Asphodelus fistulosus	Onion Weed			Yes	
Asteriscus spinosus	Golden Pallensis			Yes	
Introduced					
Species Name	Common Name	Declared	WoNS	Environmen al Weed	
Avena barbata	Bearded Oat			Yes	
Carrichtera annua	Ward's Weed			Yes	
Centaurea calcitrapa	Star Thistle			Yes	
Gazania sp.	Gazania	Yes			
Marrubium vulgare	Horehound	Yes			
Mesembryanthemum sp.	Iceplant			Yes	
Opuntia puberula	Prickly Pear	Yes	Yes		
Reichardia tingitana	False Sowthistle				
Salvia verbenaca var.	Wild Sage			Yes	
Cabinus madle	Pepper-tree			Yes	
Schinus molle					
Sisymbrium sp.	Wild Mustard				

Table 137. Scores for Bushland Assessment Vegetation Condition Components for Roadside Marker Site 055.

Attribute	Score
Native Plant Species Diversity	18/30
Weeds	7.5/15
Native Plant Life forms	12/20
Regenerating	3/12
Native: Exotic Understorey Biomass	2/5
Tree Canopy cover	2/5
Hollow-bearing trees	1/5
Fallen Timber/debris	0.5/5
Mature Tree	2/8
TOTAL VEGETATION CONDITION SCORE	24.87/80



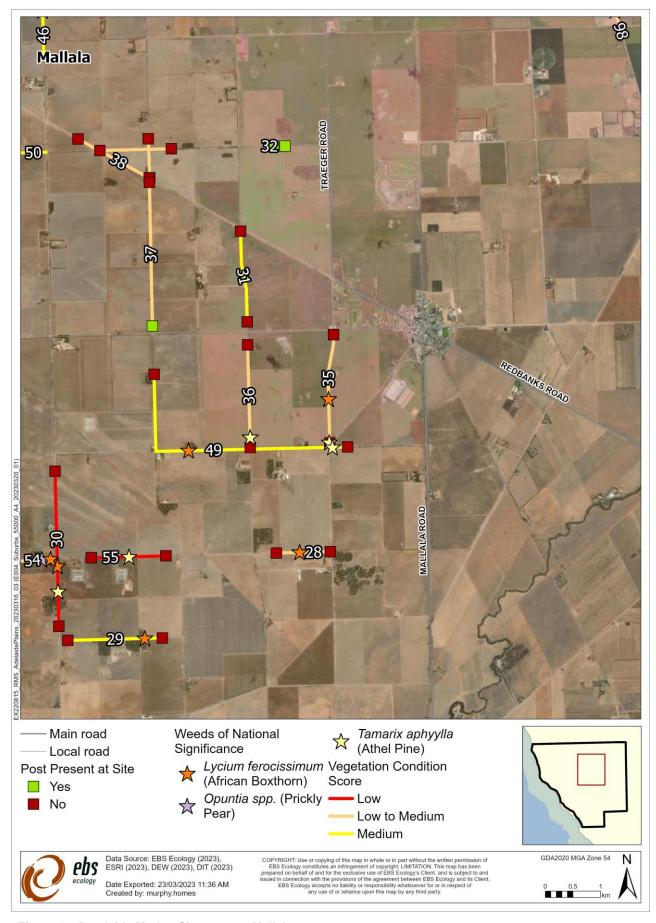


Figure 12. Roadside Marker Sites across Mallala.



## 5.8 Grace Plains

A total of six Sites were assessed across Grace Plains (Figure 13).

## 5.8.1 Roadside Marker Site 039 (Hallion Rd and Hall Rd)

The previous survey included a small section of non-native vegetation at the southern end of Hall Rd (WP 290). This section was not included in the scoring of this Site for this survey and the start was moved further north to where the native vegetation beings (WP 291). Only one post was observed at the northern end of Hall Rd at Site 39 (Table 138). A total of 13 native species were identified, with four species naturally regenerating. A total of 10 introduced species were observed with the presence of two declared weeds and five environmental weeds (Table 139). No threatened species protected under the NPW Act and the EPBC Act were observed on Site. Overall, Site 39 received a VCS of 28.70 out of 80, reflecting low to medium quality vegetation (Table 140).

Table 138. Summary of Roadside Marker Site 039.

Table 138. Summary of Road	uside Marker Site 033.
Site	039
Road	Hallion Rd and Hall Rd
Suburb	Grace Plains
Date surveyed	14/12/2022
	<b>Start:</b> 138.4567 -34.3637(S end of Hall Rd)
	138.4568 -34.3556 (S end of Hall Rd)
Longitude and Latitude	End: 138.4614 -34.3595 (E end if Hallion Rd)
Posts present?	One (S end of Hall Rd)
Threats	Weed invasion, dieback of established trees.
Vegetation Condition Score	Low to Medium – 28.70
Adjacent land use	Cropping/agriculture
Vegetation association	Eucalyptus porosa Mallee over Senna spp.
	NA 5 – Mallee & Woodlands with Open Chenopod and Sclerophyll Shrub
Benchmark Community	understory.
Photo points	S end of Hall Rd





N end of Hall Rd



E end of Hallion Rd



Table 139. Flora Species List at Roadside Marker Site 039.

Native				
Species Name	SA			
Acacia hakeoides	Hakea Wattle			
Acacia oswaldii	Umbrella Wattle			
Alectryon oleifolius ssp.				
canescens	Bullock Bush			



Native					
Species Name	Common Name	AUS	SA		
Austrostipa sp.	Spear-grass				
Enchylaena tomentosa var.	Ruby Saltbush				
Eucalyptus porosa	Mallee Box				
Geijera linearifolia	Sheep Bush				
Maireana brevifolia	Short-leaf Bluebush				
Myoporum platycarpum ssp.	False Sandalwood				
Pittosporum angustifolium	Native Apricot				
Roepera aurantiaca ssp.					
aurantiaca	Shrubby Twinleaf				
Sclerolaena diacantha	Grey Bindyi				
Senna artemisioides ssp. X					
coriacea	Broad-leaf Desert Senna				
Introduced					
Species Name	Common Name	Declared	WoNS	Environment al Weed	
Avena barbata	Bearded Oat			Yes	
Bromus diandrus	Great Brome				
Carthamus sp.					
Echium plantagineum	Salvation Jane	Yes			
Ficus carica	Edible Fig				
Oncosiphon suffruticosum	Calomba Daisy	Yes			
Salvia verbenaca var.	Wild Sage			Yes	
Schinus molle	Pepper-tree			Yes	
Sisymbrium sp.	Wild Mustard			Yes	
Sonchus oleraceus	Common Sow-thistle			Yes	

Table 140. Scores for Bushland Assessment Vegetation Condition Components for Roadside Marker Site 039.

Attribute	Score
Native Plant Species Diversity	18/30
Weeds	9/15
Native Plant Life forms	12/20
Regenerating	6/12
Native: Exotic Understorey Biomass	2/5
Tree Canopy cover	2/5
Hollow-bearing trees	3/5
Fallen Timber/debris	1/5
Mature Tree	1/8
TOTAL VEGETATION CONDITION SCORE	28.70/80

#### 5.8.2 Roadside Marker Site 040 (Tiller Rd)

No posts were observed at Site 40 (Table 141). A total of 13 native species were identified, with three species naturally regenerating. A total of five introduced species were observed with the presence of one declared weed, *Oncosiphon suffruticosum* (Calomba Daisy) and one environmental weed, *Avena barbata* (Bearded Oat) (Table 142). No threatened species protected under the NPW Act and the EPBC Act were observed on Site. Overall, Site 40 received a VCS of 33.06 out of 80, reflecting medium quality vegetation (Table 143).



Table 141. Summary of Roadside Marker Site 040.

Site	040
Road	Tiller Rd
Suburb	Grace Plains
Date surveyed	14/12/2022
	<b>Start:</b> 138.4606 -34.3449 (E end if Tiller Rd)
Longitude and Latitude	End: 138.4505 -34.3449 (W end of Tiller Rd)
Posts present?	No
Threats	Weed invasion and native vegetation clearance.
Vegetation Condition Score	Medium – 33.06
Adjacent land use	Cropping/agriculture
	Eucalyptus leptophylla Mallee over Acacia spp. and Senna artemisioides ssp.
Vegetation association	petiolaris
	NA 5 – Mallee & Woodlands with Open Chenopod and Sclerophyll Shrub
Benchmark Community	understory.
	F and on the N side of Tiller Rd

## E end on the N side of Tiller Rd



E end on the S side of Tiller Rd





## W end on the N side of Tiller Rd



W end on the S side of Tiller Rd



Table 142. Flora Species List at Roadside Marker Site 040.

Native					
Species Name	Common Name	AUS	SA		
Acacia ligulata	Umbrella Bush				
Acacia notabilis	Notable Wattle				
Acacia oswaldii	Umbrella Wattle				
Austrostipa sp.	Spear-grass				
Enchylaena tomentosa var.	Ruby Saltbush				
Eucalyptus gracilis	Yorrell				
Eucalyptus leptophylla	Narrow-leaf Red Mallee				
Maireana brevifolia	Short-leaf Bluebush				
Pittosporum angustifolium	Native Apricot				
Salsola australis	Buckbush				
Sclerolaena diacantha	Grey Bindyi				
Senna artemisioides ssp. petiolaris					
Senna artemisioides ssp. X					
coriacea	Broad-leaf Desert Senna				
Introduced					
Species Name	Common Name	Declared	WoNS	Environment al Weed	
Avena barbata	Bearded Oat			Yes	
Brassica sp.					
Oncosiphon suffruticosum	Calomba Daisy	Yes			



Introduced				
Species Name	Common Name   Declared   Wons		Environment al Weed	
Reichardia tingitana	False Sowthistle			
Reseda alba	White Mignonette			

WoNS = Weeds of National Significance (LSA Act). AUS= National threatened species under the EPBC Act; SA= State threatened species under the NPW Act; RA= Rare, EN=Endangered, VU=Vulnerable, CE= Critically Endangered.

Table 143. Scores for Bushland Assessment Vegetation Condition Components for Roadside Marker Site 040.

Attribute	Score
Native Plant Species Diversity	14/30
Weeds	4/15
Native Plant Life forms	14/20
Regenerating	6/12
Native: Exotic Understorey Biomass	3/5
Tree Canopy cover	4/5
Hollow-bearing trees	0/5
Fallen Timber/debris	1/5
Mature Tree	4/8
TOTAL VEGETATION CONDITION SCORE	33.06/80

## 5.8.3 Roadside Marker Site 041 (Tiller Rd and Franks Rd)

One post was observed on the S side on the E end of Tiller Rd at Site 41 (Table 144). A total of 23 native species were identified, with four species naturally regenerating. A total of nine introduced species were observed with the presence of one WoNS and three environmental weeds (Table 145). No threatened species protected under the NPW Act and the EPBC Act were observed on Site. Overall, Site 41 received a VCS of 34.21 out of 80, reflecting medium quality vegetation (Table 146).

Table 144. Summary of Roadside Marker Site 041.

Site	041
Road	Tiller Rd and Franks Rd
Suburb	Grace Plains
Date surveyed	14/12/2022
	<b>Start:</b> 138.485 -34.3449 (E end of Tiller Rd)
Longitude and Latitude	End: 138.4745 -34.3504 (south end of Franks Rd)
Posts present?	One (138.479 -34.345)
Threats	Weed invasion
Vegetation Condition Score	Medium - 34.21
Adjacent land use	Cropping/agriculture
Vegetation association	Eucalyptus leptophylla with E. porosa Mallee over Acacia ligulata and A. notabilis
	NA 5 – Mallee & Woodlands with Open Chenopod and Sclerophyll Shrub
Benchmark Community	understory.
Photo points	N side of Tiller Rd, E end





S side of Tiller Rd, E end



E end and S side of Tiller Rd



N end, E side of Franks Rd





S end, E side of Franks Rd



Table 145. Flora Species List at Roadside Marker Site 041.

able 145. Flora Species List at Roadside Marker Site 041.					
Native	Native				
Species Name	Common Name	AUS	SA		
Acacia argyrophylla	Silver Mulga-bush				
Acacia ligulata	Umbrella Bush				
Acacia notabilis	Notable Wattle				
Acacia oswaldii	Umbrella Wattle				
Acacia pycnantha	Golden Wattle				
Acacia sp.	Wattle				
Allocasuarina verticillata	Drooping Sheoak				
Atriplex nummularia ssp.	Old-man Saltbush				
Austrostipa sp.	Spear-grass				
Bursaria spinosa ssp.	Bursaria				
Callitris gracilis	Southern Cypress Pine				
Dianella sp.	Flax-lily				
Enchylaena tomentosa var.	Ruby Saltbush				
Eremophila longifolia	Weeping Emubush				
Eucalyptus dumosa	White Mallee				
Eucalyptus leptophylla	Narrow-leaf Red Mallee				
Eucalyptus porosa	Mallee Box				
Lomandra effusa	Scented Mat-rush				
Melaleuca brevifolia	Short-leaf Honey-myrtle				
Melaleuca lanceolata	Dryland Tea-tree			·	
Rytidosperma sp.	Wallaby-grass				



Native					
Species Name	Common Name	AUS	SA	SA	
Senna artemisioides ssp. petiolaris					
Vittadinia gracilis	Woolly New Holland Daisy				
Introduced					
Species Name	Common Name	Declared	WoNS	Environment al Weed	
Asparagus asparagoides f.	Bridal Creeper	Yes	Yes		
Avena barbata	Bearded Oat			Yes	
Bromus sp.	Brome				
Carrichtera annua	Ward's Weed			Yes	
Helminthotheca echioides	Ox-tongue				
Reichardia tingitana	False Sowthistle				
Salvia verbenaca var.	Wild Sage			Yes	
Sisymbrium sp.	Wild Mustard				
Sonchus sp.	Sow-thistle				

Table 146. Scores for Bushland Assessment Vegetation Condition Components for Roadside Marker Site 041.

Attribute	Score
Native Plant Species Diversity	24/30
Weeds	7/15
Native Plant Life forms	12/20
Regenerating	6/12
Native: Exotic Understorey Biomass	35
Tree Canopy cover	2/5
Hollow-bearing trees	1/5
Fallen Timber/debris	1/5
Mature Tree	2/8
TOTAL VEGETATION CONDITION SCORE	34.21/80

#### 5.8.4 Roadside Marker Site 042 (Tiller Rd)

Both posts were observed at Site 42 (Table 147). A total of 18 native species were identified at, with six species naturally regenerating. A total of nine introduced species were observed with the presence of one declared weed and eight environmental weeds (Table 148). No threatened species protected under the NPW Act and the EPBC Act were observed on Site. Overall, Site 42 received a VCS of 45.90 out of 80, reflecting vegetation of medium quality (Table 149).

Table 147. Summary of Roadside Marker Site 042.

Site	042
Road	Tiller Rd
Suburb	Grace Plains
Date surveyed	14/12/2022
	<b>Start:</b> 138.4361 -34.3449 (E end of Tiller Rd)
Longitude and Latitude	End: 138.4063-34.345 (W end of Tiller Rd)
Posts present?	Yes



Threats	Weed invasion
Vegetation Condition Score	Medium – 45.90
Adjacent land use	Cropping/agriculture
	Eucalyptus leptophylla over Senna artemisioides ssp. petiolaris and chenopod
Vegetation association	shrubs
	NA 5 – Mallee & Woodlands with Open Chenopod and Sclerophyll Shrub
Benchmark Community	understory.
	E end on the S side of Tiller Rd
	W end on the N side of Tiller Rd
Photo points	W end on the S side of Tiller Rd







Table 148. Flora Species List at Roadside Marker Site 042.

Native				
Species Name	Common Name	AUS	SA	
Acacia hakeoides	Hakea Wattle			
Acacia oswaldii	Umbrella Wattle			
Austrostipa nodosa	Tall Spear-grass			
Austrostipa sp.	Spear-grass			
Cassytha sp.	Dodder-laurel			
Enchylaena tomentosa var.	Ruby Saltbush			
Eucalyptus leptophylla	Narrow-leaf Red Mallee			
Eucalyptus odorata	Peppermint Box			
Exocarpos aphyllus	Leafless Cherry			
Geijera linearifolia	Sheep Bush			
Maireana brevifolia	Short-leaf Bluebush			
Nitraria billardierei	Nitre-bush			
Pittosporum angustifolium	Native Apricot			
Rhagodia candolleana ssp.	Sea-berry Saltbush			
Santalum acuminatum	Quandong			
Senna artemisioides ssp. petiolaris				
Senna artemisioides ssp. X coriacea	Broad-leaf Desert Senna			
Zygophyllum aurantiacum/eremaeum	Shrubby Twinleaf			
Introduced				
Species Name	Common Name	Declared	WoNS	Environmental Weed
Avena barbata	Bearded Oat			Yes



Introduced				
Species Name	Common Name	Declared	WoNS	Environmental Weed
Carrichtera annua	Ward's Weed			Yes
Lactuca serriola f.	Prickly Lettuce			Yes
Marrubium vulgare	Horehound	Yes		
Mesembryanthemum sp.	Iceplant			Yes
Reichardia tingitana	False Sowthistle			
Salvia verbenaca var.	Wild Sage			Yes
Solanum nigrum	Black Nightshade			Yes
Sonchus oleraceus	Common Sow-thistle			Yes

WoNS = Weeds of National Significance (LSA Act). AUS= National threatened species under the EPBC Act; SA= State threatened species under the NPW Act; RA= Rare, EN=Endangered, VU=Vulnerable, CE= Critically Endangered.

Table 149. Scores for Bushland Assessment Vegetation Condition Components for Roadside Marker Site 042.

Attribute	Score
Native Plant Species Diversity	21/30
Weeds	9/15
Native Plant Life forms	16/20
Regenerating	6/12
Native: Exotic Understorey Biomass	4/5
Tree Canopy cover	4/5
Hollow-bearing trees	3/5
Fallen Timber/debris	1/5
Mature Tree	4/8
TOTAL VEGETATION CONDITION SCORE	45.90/80

#### 5.8.5 Roadside Marker Site 045 (Hallion Rd)

Both posts were observed at Site 45 (Table 150). A total of 12 native species were identified, with two species naturally regenerating. A total of six introduced species were observed with the presence of two declared weed and one environmental weed (Table 151). No threatened species protected under the NPW Act and the EPBC Act were observed on Site. Overall, Site 45 received a VCS of 35.48 out of 80, reflecting vegetation of medium quality (Table 152).

Table 150. Summary of Roadside Marker Site 045.

Site	045
Road	Hallion Rd
Suburb	Grace Plains
Date surveyed	14/12/2022
	<b>Start:</b> 138.4367 -34.3596 (W end on the S side of Hallion Rd)
Longitude and Latitude	<b>End:</b> 138.445 -34.3596 (E end on the S side of Hallion Rd)
Posts present?	Yes
Threats	Weed invasion, garden escapes and roadside private plantings.
Vegetation Condition Score	Medium – 35.48
Adjacent land use	Cropping/agriculture



Vegetation association	Eucalyptus porosa Mallee over Acacia hakeoides	
	NA 5 – Mallee & Woodlands with Open Chenopod and Sclerophyll Shrub	
Benchmark Community	understory.	
	W end on the S side of Hallion Rd	
	E end on the S side of Hallion Rd	
Photo points	Asso. (a)	

Table 151. Flora Species List at Roadside Marker Site 045.

Native			
Species Name	Common Name	AUS	SA
Acacia hakeoides	Hakea Wattle		
Acacia oswaldii	Umbrella Wattle		
Austrostipa sp.	Spear-grass		
Dianella revoluta var.			
Enchylaena tomentosa var.	Ruby Saltbush		
Eucalyptus gracilis	Yorrell		
Eucalyptus porosa	Mallee Box		
Maireana brevifolia	Short-leaf Bluebush		
Pittosporum angustifolium	Native Apricot		
Sclerolaena diacantha	Grey Bindyi		
Senna artemisioides ssp. X coriacea	Broad-leaf Desert Senna		
Vittadinia gracilis	Woolly New Holland Daisy		



Introduced				
Species Name	Common Name	Declared	WoNS	Environmental Weed
Aira sp.	Hair-grass			
Avena barbata	Bearded Oat			Yes
Bromus diandrus	Great Brome			
Echium plantagineum	Salvation Jane	Yes		
Pinus halepensis	Aleppo Pine	Yes		
Sonchus oleraceus	Common Sow-thistle			Yes

WoNS = Weeds of National Significance (LSA Act). AUS= National threatened species under the EPBC Act; SA= State threatened species under the NPW Act; RA= Rare, EN=Endangered, VU=Vulnerable, CE= Critically Endangered.

Table 152. Scores for Bushland Assessment Vegetation Condition Components for Roadside Marker Site 045.

Attribute	Score
Native Plant Species Diversity	18/30
Weeds	9/15
Native Plant Life forms	16/20
Regenerating	3/12
Native: Exotic Understorey Biomass	3/5
Tree Canopy cover	3/5
Hollow-bearing trees	3/5
Fallen Timber/debris	1/5
Mature Tree	2/8
TOTAL VEGETATION CONDITION SCORE	35.48/80

#### 5.8.6 Roadside Marker Site 046 (Powerline Rd)

Both posts were observed at the start and end of Site 46 (Table 153). A total of 20 native species were identified, with three species naturally regenerating. A total of nine introduced species were observed with the presence of one declared weed and four environmental weeds (Table 154). No threatened species protected under the NPW Act and the EPBC Act were observed on Site. Overall, Site 46 received a VCS of 37.95 out of 80, reflecting vegetation of medium quality (Table 155).

Table 153. Summary of Roadside Marker Site 046.

Site	046
Road	Powerline Rd
Suburb	Grace Plains
Date surveyed	14/12/2022
	Start: 138.4365 -34.3451 (N end on the W side of Powerline Rd)
Longitude and Latitude	End: 138.4366 -34.3918 (S end on the W side of Powerline Rd)
Posts present?	Yes
Threats	Illegal dumping and weed invasion
Vegetation Condition Score	Medium – 37.95
Adjacent land use	Cropping/agriculture
Vegetation association	Eucalyptus porosa Mallee over Senna artemisioides ssp. petiolaris



# **Benchmark Community**

 $\mbox{NA 5}-\mbox{Mallee}$  & Woodlands with Open Chenopod and Sclerophyll Shrub understory.

N end on the W side of Powerline Rd



S end on the W side of Powerline Rd



Table 154. Flora Species List at Roadside Marker Site 046.

Native			
Species Name	Common Name	AUS	SA
Senna artemisioides ssp. petiolaris			
Enchylaena tomentosa var.	Ruby Saltbush		
Acacia oswaldii	Umbrella Wattle		
Vittadinia gracilis	Woolly New Holland Daisy	Woolly New Holland Daisy	
Austrostipa sp.	Spear-grass		
Rytidosperma sp.	Wallaby-grass		
Sclerolaena diacantha	Grey Bindyi		
Austrostipa elegantissima	Feather Spear-grass		
Pittosporum angustifolium	Native Apricot		
Eucalyptus porosa	Mallee Box		
Zygophyllum			
aurantiacum/eremaeum	Shrubby Twinleaf		
Acacia wilhelmiana	Dwarf Nealie		
Maireana brevifolia	Short-leaf Bluebush		



Native					
Species Name	Common Name	AUS	SA		
Melaleuca lanceolata	Dryland Tea-tree				
Rhagodia parabolica	Mealy Saltbush				
Acacia notabilis	Notable Wattle				
Alectryon oleifolius ssp. canescens	Bullock Bush				
Santalum acuminatum	Quandong				
Exocarpos aphyllus	Leafless Cherry				
Rhagodia candolleana ssp.	Sea-berry Saltbush				
Introduced					
Species Name	Common Name	Declared	WoNS	Environmental Weed	
Asphodelus fistulosus	Onion Weed			Yes	
Avena barbata	Bearded Oat			Yes	
Brassica sp.					
Bromus diandrus	Great Brome				
Carthamus sp.					
Cynodon dactylon var.	Couch			Yes	
Lycium ferocissimum	African Boxthorn	Yes	Yes		
Sisymbrium sp.	Wild Mustard				
Sonchus oleraceus	Common Sow-thistle			Yes	

Table 155. Scores for Bushland Assessment Vegetation Condition Components for Roadside Marker Site 046.

Attribute	Score
Native Plant Species Diversity	21/30
Weeds	9/15
Native Plant Life forms	12/20
Regenerating	6/12
Native: Exotic Understorey Biomass	3/5
Tree Canopy cover	3/5
Hollow-bearing trees	3/5
Fallen Timber/debris	1/5
Mature Tree	3/8
TOTAL VEGETATION CONDITION SCORE	37.95/80



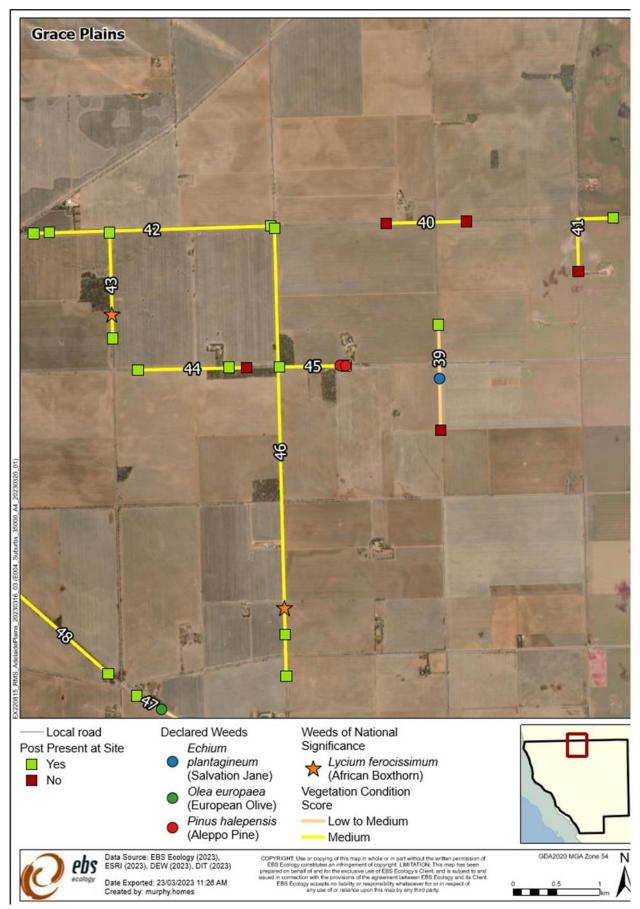


Figure 13. Roadside Marker Sites across Grace Plains



## 5.9 Calomba

A total of 11 roadside marker Sites were surveyed across Calomba (Figure 14).

## 5.9.1 Roadside Marker Site 043 (Young Rd)

Both posts were observed at the start and end of Site 43 (Table 156). A total of 18 native species were identified, with one species showing signs of natural regeneration. A total of four introduced species were observed with the presence of one declared weed and three environmental weeds (Table 157). No threatened species protected under the NPW Act and the EPBC Act were observed on Site. Overall, Site 43 received a VCS of 47.93 out of 80, reflecting vegetation of medium quality (Table 158).

Table 156. Summary of Roadside Marker Site 043.

able 156. Summary of Roadside Marker Site 043.			
Site	043		
Road	Young Rd		
Suburb	Calomba		
Date surveyed	14/12/2022		
	Start: 138.4158 -34.3451 (N end on the E side of Young)		
Longitude and Latitude	End: 138.4159 -34.3562 (S end on the E side of Young)		
Posts present?	Yes		
Threats	Weed invasion		
Vegetation Condition Score	Medium – 47.93		
Adjacent land use	Cropping/agriculture		
Vegetation association	Eucalyptus porosa Mallee over Acacia oswaldii and Pittosporum angustifolium		
	NA 5 – Mallee & Woodlands with Open Chenopod and Sclerophyll Shrub		
Benchmark Community	understory.		
	N end on the E side of Young Rd		
Photo points	S end on the E side of Young Rd		





S end on the W side of Young Rd



Table 157. Flora Species List at Roadside Marker Site 043.

Native				
Species Name	Common Name	AUS	SA	
Acacia oswaldii	Umbrella Wattle			
Alectryon oleifolius ssp. canescens	Bullock Bush			
Arthropodium fimbriatum	Nodding Vanilla-lily			
Atriplex semibaccata	Berry Saltbush			
Austrostipa sp.	Spear-grass			
Enchylaena tomentosa var.	Ruby Saltbush			
Eremophila longifolia	Weeping Emubush			
Eucalyptus porosa	Mallee Box			
Exocarpos aphyllus	Leafless Cherry			
Geijera linearifolia	Sheep Bush			
Maireana brevifolia	Short-leaf Bluebush			
Pittosporum angustifolium	Native Apricot			
Rhagodia parabolica	Mealy Saltbush			
Santalum acuminatum	Quandong			
Sclerolaena diacantha	Grey Bindyi			
Senna artemisioides ssp. petiolaris	·			
Senna artemisioides ssp. X	December 1 and 1 a			
coriacea	Broad-leaf Desert Senna			



Native					
Species Name	Common Name	AUS	SA		
Zygophyllum aurantiacum/eremaeum	Shrubby Twinleaf				
Introduced	Introduced				
Species Name	Common Name	Declared	WoNS	Environmental Weed	
Avena barbata	Bearded Oat			Yes	
Lycium ferocissimum	African Boxthorn	Yes	Yes		
Mesembryanthemum sp.	Iceplant			Yes	
Sonchus oleraceus	Common Sow-thistle			Yes	

WoNS = Weeds of National Significance (LSA Act). AUS= National threatened species under the EPBC Act; SA= State threatened species under the NPW Act; RA= Rare, EN=Endangered, VU=Vulnerable, CE= Critically Endangered.

Table 158. Scores for Bushland Assessment Vegetation Condition Components for Roadside Marker Site 043.

Attribute	Score
Native Plant Species Diversity	27/30
Weeds	10.5/15
Native Plant Life forms	16/20
Regenerating	3/12
Native: Exotic Understorey Biomass	4/5
Tree Canopy cover	3/5
Hollow-bearing trees	3/5
Fallen Timber/debris	1/5
Mature Tree	4/8
TOTAL VEGETATION CONDITION SCORE	47.93/80

## 5.9.2 Roadside Marker Site 044 (Hallion Rd)

Only one post was observed at the western end on the northern side of Hallion Rd at Site 44 (Table 159). A total of 10 native species were identified at Site 44, with one species naturally regenerating. A total of three introduced species were observed, which were all listed as environmental weeds (Table 160). No threatened species protected under the NPW Act and the EPBC Act were observed on Site. Overall, Site 44 received a VCS of 36.23 out of 80, reflecting vegetation of medium quality (Table 161).

Table 159. Summary of Roadside Marker Site 044.

Site	044
Road	Hallion Rd
Suburb	Calomba
Date surveyed	14/12/2022
	<b>Start:</b> 138.419 -34.3595 (W end of Hallion Rd)
Longitude and Latitude	End: 138.4326 -34.3596 (E end of Hallion Rd)
Posts present?	One
Threats	Weed invasion
Vegetation Condition Score	Medium – 36.23



djacent land use	Cropping/agriculture
egetation association	Eucalyptus porosa Mallee over Acacia spp.
	NA 5 – Mallee & Woodlands with Open Chenopod and Sclerophyll Shrub
enchmark Community	understory.
	W end on the N side of Hallion Rd
	E nd on the N side of Hallion Rd

W nd on the N side of Hallion Rd





Table 160. Flora Species List at Roadside Marker Site 044.

Native				
Species Name	Common Name	AUS	SA	
Acacia argyrophylla	Silver Mulga-bush			
Acacia hakeoides	Hakea Wattle			
Acacia oswaldii	Umbrella Wattle			
Allocasuarina verticillata	Drooping Sheoak			
Austrostipa sp.	Spear-grass			
Eucalyptus porosa	Mallee Box			
Pittosporum angustifolium	Native Apricot			
Rytidosperma sp.	Wallaby-grass			
Sclerolaena diacantha	Grey Bindyi			
Vittadinia condyloides	Club-hair New Holland Daisy			
Introduced				
Species Name	Common Name	Declared	WoNS	Environmental Weed
Avena barbata	Bearded Oat			Yes
Carrichtera annua	Wards Weed			Yes
Vicia sativa ssp. sativa	Common Vetch			Yes

Table 161. Scores for Bushland Assessment Vegetation Condition Components for Roadside Marker Site 044.

Attribute	Score	
Native Plant Species Diversity	21/30	
Weeds	12/15	
Native Plant Life forms	12/20	
Regenerating	3/12	
Native: Exotic Understorey Biomass	3/5	
Tree Canopy cover	3/5	
Hollow-bearing trees	3/5	
Fallen Timber/debris	1/5	
Mature Tree	2/8	
TOTAL VEGETATION CONDITION SCORE	36.32/80	

#### 5.9.3 Roadside Marker Site 047 (Calomba Rd)

Both posts were observed at Site 47 (Table 162). A total of 11 native species were identified at Site 47, with no signs of regeneration. A total of 11 introduced species were observed with the presence of two declared weeds and eight environmental weeds (Table 163). No threatened species protected under the NPW Act and the EPBC Act were observed on Site. Overall, Site 47 received a VCS of 25.81 out of 80, reflecting vegetation of low to medium quality (Table 164).

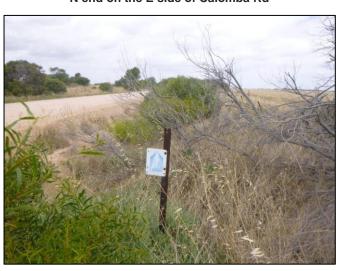
Table 162. Summary of Roadside Marker Site 047.

Site	047
Road	Calomba Rd
Suburb	Calomba
Date surveyed	14/12/2022



	<b>Start:</b> 138.4178 -34.3934 (N end of Calomba Rd)
Longitude and Latitude	End: 138.4276 -34.3983 (S end of Calomba Rd)
Posts present?	Yes
Threats	Weed invasion
Vegetation Condition Score	Low to Medium – 25.81
Adjacent land use	Cropping/agriculture
Vegetation association	Eucalyptus porosa Mallee over Pittosporum angustifolium and Eremophila longifolia
Benchmark Community	NA 5 – Mallee & Woodlands with Open Chenopod and Sclerophyll Shrub understory.

## N end on the E side of Calomba Rd



S end on the E side of Calomba Rd



Table 163. Flora Species List at Roadside Marker Site 047.

Native			
Species Name	Common Name	AUS	SA
Acacia hakeoides	Hakea Wattle		
Acacia oswaldii	Umbrella Wattle		



Austrostipa sp.	Spear-grass			
Enchylaena tomentosa var.	Ruby Saltbush			
Eremophila longifolia	Weeping Emubush			
Eucalyptus porosa	Mallee Box			
Maireana brevifolia	Short-leaf Bluebush			
Pittosporum angustifolium	Native Apricot			
Senna artemisioides ssp. petiolaris				
Senna artemisioides ssp. X				
coriacea	Broad-leaf Desert Senna			
Vittadinia condyloides	Club-hair New Holland Daisy			
Introduced				
Species Name	Common Name	Declared	WoNS	Environmental Weed
Species Name  Avena barbata	Common Name  Bearded Oat	Declared	WoNS	
		Declared	WoNS	Weed
Avena barbata		Declared	WoNS	Weed
Avena barbata Brassica sp.		Declared	WoNS	Weed
Avena barbata Brassica sp. Carthamus sp.	Bearded Oat		WoNS	Weed
Avena barbata Brassica sp. Carthamus sp. Echium plantagineum	Bearded Oat  Salvation Jane		WoNS	Yes Yes
Avena barbata Brassica sp. Carthamus sp. Echium plantagineum Lactuca serriola f.	Bearded Oat  Salvation Jane Prickly Lettuce	Yes	WoNS	Yes Yes
Avena barbata Brassica sp. Carthamus sp. Echium plantagineum Lactuca serriola f. Olea europaea ssp.	Bearded Oat  Salvation Jane Prickly Lettuce Olive	Yes	WoNS	Yes Yes
Avena barbata Brassica sp. Carthamus sp. Echium plantagineum Lactuca serriola f. Olea europaea ssp. Piptatherum miliaceum	Bearded Oat  Salvation Jane Prickly Lettuce Olive Rice Millet	Yes	WoNS	Yes Yes
Avena barbata Brassica sp. Carthamus sp. Echium plantagineum Lactuca serriola f. Olea europaea ssp. Piptatherum miliaceum Reichardia tingitana	Bearded Oat  Salvation Jane Prickly Lettuce Olive Rice Millet False Sowthistle	Yes	WoNS	Yes Yes Yes

Table 164. Scores for Bushland Assessment Vegetation Condition Components for Roadside Marker Site 047.

Attribute	Score
Native Plant Species Diversity	15/30
Weeds	6.5/15
Native Plant Life forms	12/20
Regenerating	3/12
Native: Exotic Understorey Biomass	2/5
Tree Canopy cover	3/5
Hollow-bearing trees	2/5
Fallen Timber/debris	1/5
Mature Tree	2/8
TOTAL VEGETATION CONDITION SCORE	25.81/80

#### 5.9.4 Roadside Marker Site 048 (Daniel Rd)

Both posts were observed at Site 48 (Table 165). A total of 16 native species were identified, with four species naturally regenerating. A total of 11 introduced species were observed with the presence of one declared weed and seven environmental weeds (Table 166). No threatened species protected under the NPW Act and the EPBC Act were observed on Site. Overall, Site 48 received a VCS of 37.13 out of 80, reflecting vegetation of medium quality (Table 167).

Table 165. Summary of Roadside Marker Site 048.

Site	048
Road	Daniel Rd



Suburb	Calomba
Date surveyed	14/12/2022
	Start: 138.3938 -34.3753 (NW end of Daniel Rd)
Longitude and Latitude	End: 138.4143 -34.391 (SW end of Daniel Rd)
Posts present?	Yes
Threats	Degradation of native vegetation from Rail corridor and weed invasion.
Vegetation Condition	Medium - 37.13
Score	Medium - 37.13
Adjacent land use	Cropping/agriculture
	Eucalyptus brachycalyx Mallee over Senna artemisioides ssp. X coriacea and
Vegetation association	Pittosporum angustifolium
	NA 5 – Mallee & Woodlands with Open Chenopod and Sclerophyll Shrub
Benchmark Community	understory.
	NW - L - W - N - L - CB - L - LB - L

## NW end on the N side of Daniel Rd



SW end on the N side of Daniel Rd



Photo points



Table 166. Flora Species List at Roadside Marker Site 048.

Native				
Species Name	Common Name	AUS	SA	
Acacia ligulata	Umbrella Bush			
Acacia notabilis	Notable Wattle			
Acacia oswaldii	Umbrella Wattle			
Alectryon oleifolius ssp.				
canescens	Bullock Bush			
Austrostipa sp.	Spear-grass			
Enchylaena tomentosa var.	Ruby Saltbush			
Eucalyptus brachycalyx	Gilja			
Exocarpos aphyllus	Leafless Cherry			
Geijera linearifolia	Sheep Bush			
Maireana brevifolia	Short-leaf Bluebush			
Pittosporum angustifolium	Native Apricot			
Rhagodia parabolica	Mealy Saltbush			
Roepera aurantiaca ssp.				
aurantiaca	Shrubby Twinleaf			
Rytidosperma sp.	Wallaby-grass			
Santalum acuminatum	Quandong			
Senna artemisioides ssp.				
petiolaris				
Senna artemisioides ssp. X				
coriacea	Broad-leaf Desert Senna			
Introduced				
Species Name	Common Name	Declared	WoNS	Environmental Weed
Asphodelus fistulosus	Onion Weed			Yes
Avena barbata	Bearded Oat			Yes
Carthamus lanatus	Saffron Thistle			Yes
Centaurea solstitialis	St Barnaby's Thistle			
Echium plantagineum	Salvation Jane	Yes		
Piptatherum miliaceum	Rice Millet			Yes
Reichardia tingitana	False Sowthistle			
Salvia verbenaca var.	Wild Sage			Yes
Scabiosa atropurpurea	Pincushion			Yes
Sonchus oleraceus	Common Sow-thistle			Yes
Yucca gloriosa	Yucca			

Table 167. Scores for Bushland Assessment Vegetation Condition Components for Roadside Marker Site 048.

Attribute	Score
Native Plant Species Diversity	21/30
Weeds	10.5/15
Native Plant Life forms	12/20
Regenerating	3/12
Native: Exotic Understorey Biomass	3/5
Tree Canopy cover	3/5
Hollow-bearing trees	3/5
Fallen Timber/debris	1/5
Mature Tree	4/8
TOTAL VEGETATION CONDITION SCORE	37.13/80



#### 5.9.5 Roadside Marker Site 050 (Johnsons Rd)

One post was located at the W end of Johnson Rd at Site 50 (Table 168). This Site is severely impacted by garden escapes, which are also listed as declared weeds and WoNS, this includes species such as *Opuntia spp.* and *Asparagus scandens* (Asparagus Fern). Overall, a total of 20 native species were identified at Site 50, with three species naturally regenerating. A total of 14 introduced species were observed with the presence of three declared weeds, all of which are classified as WoNS and seven environmental weeds (Table 169). No threatened species protected under the NPW Act and the EPBC Act were observed. Site 50 received a VCS of 38.89 out of 80, reflecting vegetation of medium quality (Table 170).

Table 168. Summary of Roadside Marker Site 050.

Table 168. Summary of Road	uside Marker Site 050.
Site	050
Road	Johnson Rd
Suburb	Calomba
Date surveyed	16/12/2022
	Start: 138.3575 -34.4077 (W end of Johnson Rd, S side)
Longitude and Latitude	End: 138.4365 -34.4078 (E end of Johnson Rd, S side)
Posts present?	One
Threats	Weed invasion, garden escapes and mowing of native vegetation
Vegetation Condition Score	Medium – 38.89
Adjacent land use	Cropping/agriculture
Vegetation association	Eucalyptus socialis Mallee over Senna spp.
	NA 5 – Mallee & Woodlands with Open Chenopod and Sclerophyll Shrub
Benchmark Community	understory.
	W end of Johnson Rd, S side
Photo points	E end of Johnson Rd, S side





Table 169. Flora Species List at Roadside Marker Site 050.

Native			
Species Name	Common Name	AUS	SA
Acacia oswaldii	Umbrella Wattle		
Acacia wilhelmiana	Dwarf Nealie		
Alectryon oleifolius ssp.			
canescens	Bullock Bush		
Atriplex paludosa ssp.	Marsh Saltbush		
Austrostipa platychaeta	Flat-awn Spear-grass		
Enchylaena tomentosa var.	Ruby Saltbush		
Eucalyptus porosa	Mallee Box		
Eucalyptus socialis ssp.	Beaked Red Mallee		
Eucalyptus gracilis	Yorrell		
Exocarpos aphyllus	Leafless Cherry		
Geijera linearifolia	Sheep Bush		
Maireana brevifolia	Short-leaf Bluebush		
Myoporum platycarpum ssp.	False Sandalwood		
Nitraria billardierei	Nitre-bush		
Pittosporum angustifolium	Native Apricot		
Rhagodia parabolica	Mealy Saltbush		
Rytidosperma sp.	Wallaby-grass		
Santalum acuminatum	Quandong		
Salsola australis	Buckbush		
Sclerolaena diacantha	Grey Bindyi		
Senna artemisioides ssp.	Desert Senna		
Senna artemisioides ssp. X			
coriacea .	Broad-leaf Desert Senna		
Introduced			

Species Name	Common Name	Declared	WoNS	Environmental Weed
Asphodelus fistulosus	Onion Weed			Yes
Asteriscus spinosus	Golden Pallensis			Yes
Avena barbata	Bearded Oat			Yes
Bromus diandrus	Great Brome			
Cactaceae sp.				
Carrichtera annua	Ward's Weed			Yes
Centaurea calcitrapa	Star Thistle			Yes
Lycium ferocissimum	African Boxthorn	Yes	Yes	
Mesembryanthemum sp.	Iceplant			Yes
Opuntia puberula		Yes	Yes	
Reichardia tingitana	False Sowthistle			
Solanum elaeagnifolium	Silver-leaf Nightshade	Yes	Yes	
Sonchus sp.	Sow-thistle			Yes



Table 170. Scores for Bushland Assessment Vegetation Condition Components for Roadside Marker Site 050.

Attribute	Score
Native Plant Species Diversity	24/30
Weeds	6.5/15
Native Plant Life forms	12/20
Regenerating	3/12
Native: Exotic Understorey Biomass	3/5
Tree Canopy cover	3/5
Hollow-bearing trees	5/5
Fallen Timber/debris	1/5
Mature Tree	4/8
TOTAL VEGETATION CONDITION SCORE	38.89/80

#### 5.9.6 Roadside Marker Site 059 (Shannon Rd)

Both posts were observed at Site 59 (Table 171). A total of 18 native species were identified at, with three species naturally regenerating. A total of 14 introduced species were observed with the presence of two declared weeds and nine environmental weeds (Table 172). No threatened species protected under the NPW Act and the EPBC Act were observed on Site. Overall, Site 59 received a VCS of 39.81 out of 80, reflecting vegetation of medium quality (Table 173).

Table 171. Summary of Roadside Marker Site 059.

Site	059
Road	Shannon Rd
Suburb	Calomba
Date surveyed	16/12/2022
	Start: 138.4158 -34.4111 (N end on the W side of Shannon Rd)
Longitude and Latitude	End: 138.4159 -34.4228 (S end on the W side of Shannon Rd)
Posts present?	Yes
Threats	Weed invasion and rubbish
Vegetation Condition Score	Medium – 39.81
Adjacent land use	Cropping/agriculture
Vegetation association	Eucalyptus socialis and E. gracillis Mixed Mallee over Acacia oswaldii
	NA 5 – Mallee & Woodlands with Open Chenopod and Sclerophyll Shrub
Benchmark Community	understory.
Photo points	N end on the W side of Shannon Rd





S end on the W side of Shannon Rd



Table 172. Flora Species List at Roadside Marker Site 059.

Native				
Species Name	Common Name	AUS	SA	
Acacia oswaldii	Umbrella Wattle			
Atriplex semibaccata	Berry Saltbush			
Austrostipa sp.	Spear-grass			
Cassytha sp.	Dodder-laurel			
Enchylaena tomentosa var.	Ruby Saltbush			
Eucalyptus gracilis	Yorrell			
Eucalyptus socialis ssp.	Beaked Red Mallee			
Eucalyptus sp.				
Exocarpos aphyllus	Leafless Cherry			
Geijera linearifolia	Sheep Bush			
Lomandra effusa	Scented Mat-rush			
Maireana brevifolia	Short-leaf Bluebush			
Melaleuca lanceolata	Dryland Tea-tree			
Nitraria billardierei	Nitre-bush			
Olearia teretifolia	Cypress Daisy-bush			
Pittosporum angustifolium	Native Apricot			
Rytidosperma sp.	Wallaby-grass			
Senna artemisioides ssp. X coriacea	Broad-leaf Desert Senna			
Introduced				



Species Name	Common Name	Declared	WoNS	Environmental Weed
Asphodelus fistulosus	Onion Weed			Yes
Asteriscus spinosus	Golden Pallensis			Yes
Avena barbata	Bearded Oat			Yes
Brassica sp.				
Bromus diandrus	Great Brome			
Carrichtera annua	Ward's Weed			Yes
Centaurea calcitrapa	Star Thistle			Yes
Lycium ferocissimum	African Boxthorn	Yes	Yes	
Mesembryanthemum sp.	Iceplant			Yes
Salvia verbenaca var.	Wild Sage			Yes
Scabiosa atropurpurea	Pincushion			Yes
Sisymbrium officinale	Hedge Mustard			
Solanum elaeagnifolium	Silver-leaf Nightshade	Yes	Yes	
Sonchus sp.	Sow-thistle			Yes

Table 173. Scores for Bushland Assessment Vegetation Condition Components for Roadside Marker Site 059.

Attribute	Score
Native Plant Species Diversity	27/30
Weeds	8/15
Native Plant Life forms	12/20
Regenerating	3/12
Native: Exotic Understorey Biomass	3/5
Tree Canopy cover	3/5
Hollow-bearing trees	3/5
Fallen Timber/debris	1/5
Mature Tree	3/8
TOTAL VEGETATION CONDITION SCORE	39.81/80

#### 5.9.7 Roadside Marker Site 060 (Jenkin Rd)

Both posts were observed at Site 60 (Table 174). A total of 22 native species were identified at Site 60, with three species naturally regenerating. A total of 10 introduced species were observed with the presence of two declared weeds and six environmental weeds (

Table 175). No threatened species protected under the NPW Act and the EPBC Act were observed on Site. Overall, Site 60 received a VCS of 45.81 out of 80, reflecting vegetation of medium quality (Table 176).

Table 174. Summary of Roadside Marker Site 060.

Site	060
Road	Jenkin Rd
Suburb	Calomba
Date surveyed	16/12/2022
	<b>Start:</b> 138.3807 -34.4174 (W end on the S side of Jenkins Rd)
Longitude and Latitude	End: 138.4057 -34.4177 (E end on the S side of Jenkins Rd)
Posts present?	Yes



	Adelaide Flains Council Noadside Marker Scheme Ecological Assessmen
Threats	Weed invasion
Vegetation Condition Score	Medium – 45.81
Adjacent land use	Cropping/agriculture
Vegetation association	Eucalyptus porosa and E. socilais mixed mallee over Senna spp. and Acacia oswaldii
Benchmark Community	NA 5 – Mallee & Woodlands with Open Chenopod and Sclerophyll Shrub understory.
	W end on the S side of Jenkins Rd
	E end on the S side of Jenkins Rd

Table 175. Flora Species List at Roadside Marker Site 060.

Native				
Species Name	Common Name	AUS	SA	
Acacia hakeoides	Hakea Wattle			
Acacia oswaldii	Umbrella Wattle			
Atriplex paludosa ssp.	Marsh Saltbush			
Austrostipa elegantissima	Feather Spear-grass			
Austrostipa platychaeta	Flat-awn Spear-grass			
Austrostipa sp.	Spear-grass			



Photo points

Native					
Species Name	Common Name	AUS	SA		
Enchylaena tomentosa var.	Ruby Saltbush				
Eucalyptus odorata	Peppermint Box				
Eucalyptus porosa	Mallee Box				
Eucalyptus socialis ssp.	Beaked Red Mallee				
Exocarpos aphyllus	Leafless Cherry				
Lomandra effusa	Scented Mat-rush				
Melaleuca lanceolata	Dryland Tea-tree				
Pittosporum angustifolium	Native Apricot				
Rhagodia candolleana ssp.	Sea-berry Saltbush				
Rytidosperma sp.	Wallaby-grass				
Santalum acuminatum	Quandong				
Salsola australis	Buckbush				
Sclerolaena sp.	Bindyi				
Senna artemisioides ssp.					
petiolaris					
Senna artemisioides ssp. X					
coriacea	Broad-leaf Desert Senna				
Zygophyllum aurantiacum/eremaeum	Shrubby Twinleaf				
Introduced	Siliubby I williear				
Introduced					
Species Name	Common Name	Declared	WoNS	Environmental Weed	
Avena barbata	Bearded Oat			Yes	
Bromus diandrus	Great Brome				
Carrichtera annua	Ward's Weed			Yes	
Cynodon dactylon var.	Couch			Yes	
Lycium ferocissimum	African Boxthorn	Yes	Yes		
Mesembryanthemum sp.	Iceplant			Yes	
Pinus halepensis	Aleppo Pine	Yes			
Reichardia tingitana	False Sowthistle				
Salvia verbenaca var.	Wild Sage			Yes	
Sonchus oleraceus	Common Sow-thistle			Yes	

Table 176. Scores for Bushland Assessment Vegetation Condition Components for Roadside Marker Site 060.

Attribute	Score	
Native Plant Species Diversity	24/30	
Weeds	8/15	
Native Plant Life forms	16/20	
Regenerating	6/12	
Native: Exotic Understorey Biomass	4/5	
Tree Canopy cover	3/5	
Hollow-bearing trees	3/5	
Fallen Timber/debris	1.5/5	
Mature Tree	3/8	
TOTAL VEGETATION CONDITION SCORE	45.81/80	

## 5.9.8 Roadside Marker Site 061 (Long Plains Rd)

Both posts were observed at Site 61 (Table 177). A total of 14 native species were identified, with three species naturally regenerating. A total of nine introduced species were observed with the presence of one



declared weed and six environmental weeds (Table 178). No threatened species protected under the NPW Act and the EPBC Act were observed on Site. Overall, Site 61 received a VCS of 30.63 out of 80, reflecting vegetation of low to medium quality (Table 179).

Table 177. Summary of Roadside Marker Site 061.

Site	061	
Road	Long Plains Rd	
Suburb	Calomba	
Date surveyed	16/12/2022	
	Start: 138.3814 -34.4033 (N end on the E side of Jenkins Rd)	
Longitude and Latitude	<b>End:</b> 138.3804 -34.4132 (S end on the E side of Jenkins Rd)	
Posts present?	Yes	
Threats	Weed invasion	
Vegetation Condition Score	Low to Medium – 30.63	
Adjacent land use	Cropping/agriculture	
Vegetation association	Eucalyptus socialis and E. gracilis Mixed Mallee over Acacia spp.	
Benchmark Community	NA 5 – Mallee & Woodlands with Open Chenopod and Sclerophyll Shrub understory.	
	N end on the E side of Jenkins Rd	
Photo points	S end on the E side of Jenkins Rd	





Table 178. Flora Species List at Roadside Marker Site 061.

Native					
Species Name	Common Name	AUS	SA		
Acacia hakeoides	Hakea Wattle				
Acacia oswaldii	Umbrella Wattle				
Enchylaena tomentosa var.	Ruby Saltbush				
Eucalyptus gracilis	Yorrell				
Eucalyptus socialis ssp.	Beaked Red Mallee				
Exocarpos aphyllus	Leafless Cherry				
Geijera linearifolia	Sheep Bush				
Maireana brevifolia	Short-leaf Bluebush				
Melaleuca lanceolata	Dryland Tea-tree				
Myoporum platycarpum ssp.	False Sandalwood				
Santalum acuminatum	Quandong				
Sclerolaena diacantha	Grey Bindyi				
Senna artemisioides ssp.	Desert Senna				
Senna artemisioides ssp. X					
coriacea	Broad-leaf Desert Senna				
Introduced					
Species Name	Common Name	Declared	WoNS	Environmental Weed	
Asteriscus spinosus	Golden Pallensis			Yes	
Avena barbata	Bearded Oat			Yes	
Brassica sp.					
Carrichtera annua	Ward's Weed			Yes	
Centaurea calcitrapa	Star Thistle			Yes	
Lycium ferocissimum	African Boxthorn	Yes	Yes		
Piptatherum miliaceum	Rice Millet			Yes	
Reichardia tingitana	False Sowthistle				
Sonchus oleraceus	Common Sow-thistle			Yes	

Table 179. Scores for Bushland Assessment Vegetation Condition Components for Roadside Marker Site 061.

Attribute	Score
Native Plant Species Diversity	21/30
Weeds	8/15
Native Plant Life forms	12/20
Regenerating	3/12
Native: Exotic Understorey Biomass	2/5



Attribute	Score
Tree Canopy cover	3/5
Hollow-bearing trees	2/5
Fallen Timber/debris	0.5/5
Mature Tree	2/8
TOTAL VEGETATION CONDITION SCORE	30.63/80

## 5.9.9 Roadside Marker Site 062 (Long Plains Rd)

Site 62 consisted mainly of *Eucalyptus porosa* and *E. socialis* mixed Mallee (62a). However, at the intersection of Daniel and Long Plains Rd, a small patch of *E. largiflorens* with planted *E. cladocalyx* woodland exists (62b). This section was assessed separately from the rest of Site 62 due to the condition of this Site. However, these Sites were then averaged to get an overarching score for Site 62. Both posts were observed at this Site (Table 180). Overall, a total of 18 native species were identified at Site 62, with no signs of natural regeneration. A total of seven introduced species were observed, this includes five environmental weeds and no declared weeds (Table 181). One threatened species protected under the NPW Act was observed on Site, this includes the State Rare *Acacia iteaphylla* (Finders Ranges Wattle). Overall, Site 62 received a VCS of 40.02 out of 80, reflecting vegetation of medium quality (Table 182).

Table 180. Summary of Roadside Marker Site 062.

Site	062
Road	Long Plains Rd
Suburb	Calomba
Date surveyed	14/12/2022
	Start: 138.3852 -34.3663 (N end on the E side of Long Plains Rd)
Longitude and Latitude	End: 138.3832 -34.3861 (S end on the E side of Long Plains Rd)
Posts present?	Yes
Threats	Garden plantings, garden escapes and weed invasion
Vegetation Condition Score	Medium – 40.02
Adjacent land use	Cropping/agriculture
Vegetation association	Eucalpytus porosa +/- E. largiflorens Mixed Mallee over Acacia spp.
	NA 5 – Mallee & Woodlands with Open Chenopod and Sclerophyll Shrub
Benchmark Community	understory.
Photo points	N end on the E side of Long Plains Rd





S end on the E side of Long Plains Rd



Revegetated/remnant E. largiflorens Mallee (62b)

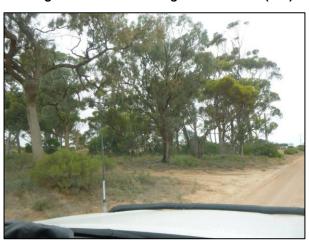


Table 181. Flora Species List at Roadside Marker Site 062.

Native			
Species Name	Common Name	AUS	SA
Acacia hakeoides	Hakea Wattle		
Acacia iteaphylla	Flinders Ranges Wattle		R
Acacia oswaldii	Umbrella Wattle		
Austrostipa sp.	Spear-grass		
Callistemon sp.	Bottlebrush		
Enchylaena tomentosa var.	Ruby Saltbush		
Eucalyptus largiflorens	River Box		
Eucalyptus porosa	Mallee Box		



Native					
Species Name	Common Name	AUS	SA	SA	
Eucalyptus socialis	Red Beaked Mallee				
Exocarpos aphyllus	Leafless Cherry				
Geijera linearifolia	Sheep Bush				
Maireana brevifolia	Short-leaf Bluebush				
Melaleuca lanceolata	Dryland Tea-tree				
Rhagodia parabolica	Mealy Saltbush				
Sclerolaena diacantha	Grey Bindyi				
Senna artemisioides ssp. petiolaris					
Senna artemisioides ssp. X					
coriacea	Broad-leaf Desert Senna				
	Club-hair New Holland				
Vittadinia condyloides	Daisy				
Zygophyllum <sub>.</sub>					
aurantiacum/eremaeum	Shrubby Twinleaf				
Introduced					
Species Name	Common Name	Declared	WoNS	Environmental Weed	
Agave sp.					
Avena barbata	Bearded Oat			Yes	
Carthamus lanatus	Saffron Thistle			Yes	
Heliotropium europaeum	Common Heliotrope			Yes	
Scabiosa atropurpurea	Pincushion			Yes	
Sisymbrium sp.	Wild Mustard				
Sonchus oleraceus	Common Sow-thistle			Yes	

Table 182. Average scores for Bushland Assessment Vegetation Condition Components for Roadside Marker Site 062.

Attribute	Score
Native Plant Species Diversity	24/30
Weeds	12.5/15
Native Plant Life forms	12/20
Regenerating	3/12
Native: Exotic Understorey Biomass	2.5/5
Tree Canopy cover	3.5/5
Hollow-bearing trees	2.5/5
Fallen Timber/debris	1.75/5
Mature Tree	3/8
TOTAL VEGETATION CONDITION SCORE	40.02/80

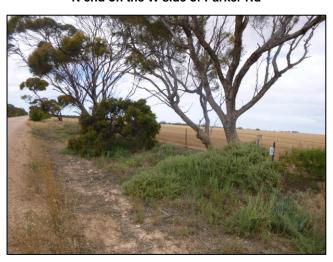
#### 5.9.10 Roadside Marker Site 063 (Parker Rd)

Both posts were observed at Site 63 (Table 183). A total of 22 native species were identified, with five species naturally regenerating. A total of 10 introduced species were observed with the presence of two declared weeds, both listed as WoNS and seven environmental weeds (Table 184). No threatened species protected under the NPW Act and the EPBC Act were observed on Site. Overall, Site 63 received a VCS of 48.69 out of 80, reflecting vegetation of medium quality (Table 185).



Table 183. Summary of Roadside Marker Site 063.

Site	063
Road	Parker Rd
Suburb	Calomba
Date surveyed	14/12/2022
	Start: 138.3857 -34.3465 (N end on the W side of Parker Rd)
Longitude and Latitude	End: 138.3857 -34.3594 (S end on the W side of Parker Rd)
Posts present?	Yes
Threats	Planted vegetation and weed invasion
Vegetation Condition Score	Medium – 48.69
Adjacent land use	Cropping/agriculture
Vegetation association	Eucalyptus porosa Mixed Mallee over Acacia spp. Shrubland
Benchmark Community	NA 5 – Mallee & Woodlands with Open Chenopod and Sclerophyll Shrub understory.
	N end on the W side of Parker Rd



S end on the W side of Parker Rd



**Photo points** 



Table 184. Flora Species List at Roadside Marker Site 063.

Native				
Species Name	Common Name	AUS	SA	
Acacia argyrophylla	Silver Mulga-bush			
Acacia notabilis	Notable Wattle			
Acacia oswaldii	Umbrella Wattle			
Allocasuarina verticillata	Drooping Sheoak			
Austrostipa sp.	Spear-grass			
Callitris gracilis	Southern Cypress Pine			
Enchylaena tomentosa var.	Ruby Saltbush			
Eremophila longifolia	Weeping Emubush			
Eucalyptus leptophylla	Narrow-leaf Red Mallee			
Eucalyptus porosa	Mallee Box			
Eucalyptus socialis ssp.	Beaked Red Mallee			
Geijera linearifolia	Sheep Bush			
Maireana brevifolia	Short-leaf Bluebush			
Melaleuca acuminata ssp.				
acuminata .	Mallee Honey-myrtle			
Melaleuca lanceolata	Dryland Tea-tree			
Pittosporum angustifolium	Native Apricot			
Rhagodia candolleana ssp.	Sea-berry Saltbush			
Rhagodia parabolica	Mealy Saltbush			
Rytidosperma sp.	Wallaby-grass			
Santalum acuminatum	Quandong			
Senna artemisioides ssp.				
petiolaris				
Vittadinia gracilis	Woolly New Holland Daisy			
Introduced				
Species Name	Common Name	Declared	WoNS	Environmental Weed
Acacia saligna	Golden Wreath Wattle			Yes
Avena barbata	Bearded Oat			Yes
Carrichtera annua	Ward's Weed			Yes
Lycium ferocissimum	African Boxthorn	Yes	Yes	
Piptatherum miliaceum	Rice Millet			Yes
Reichardia tingitana	False Sowthistle			
Salvia verbenaca var.	Wild Sage			Yes
Schinus molle	Pepper-tree			Yes
Solanum elaeagnifolium	Silver-leaf Nightshade	Yes	Yes	
Sonchus oleraceus	Common Sow-thistle			Yes

Table 185. Scores for Bushland Assessment Vegetation Condition Components for Roadside Marker Site 063.

Attribute	Score	
Native Plant Species Diversity	24/30	
Weeds	9/15	
Native Plant Life forms	16/20	
Regenerating	6/12	
Native: Exotic Understorey Biomass	4/5	
Tree Canopy cover	5/5	
Hollow-bearing trees	3/5	
Fallen Timber/debris	1/5	
Mature Tree	3/8	
TOTAL VEGETATION CONDITION SCORE	48.69/80	



#### 5.9.11 Roadside Marker Site 064 (Lawrie Rd)

Only one post was observed at Site 64 and was located at the southern end of Lawrie road at the Lawrie and Parker Rd intersection (Table 186). A total of 14 native species were identified at Site 64, with one species naturally regenerating. A total of five introduced species were observed, this includes four environmental weeds and no declared weeds (Table 187). No threatened species protected under the NPW Act and the EPBC Act were observed. Overall, Site 64 received a VCS of 45.94 out of 80, reflecting vegetation of medium quality (Table 188).

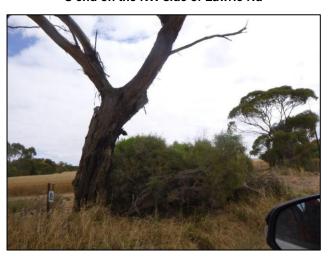
Table 186. Summary of Roadside Marker Site 064.

Site	064
Road	Lawrie Rd
Suburb	Calomba
Date surveyed	14/12/2022
	<b>Start:</b> 138.3983 -34.3483 (N end on the NW side of Lawrie Rd)
Longitude and Latitude	End: 138.3861 -34.3556 (S end on the NW side of Lawrie Rd)
Posts present?	One (S end on the NW side of Lawrie Rd)
Threats	Weed invasion and tree trimming
Vegetation Condition Score	Medium – 45.94
Adjacent land use	Cropping/agriculture
Vegetation association	Eucalyptus gracilis and E. porosa Mixed Mallee over Acacia spp. and Senna spp.
	NA 5 – Mallee & Woodlands with Open Chenopod and Sclerophyll Shrub
Benchmark Community	understory.
	N end on the NW side of Lawrie Rd





S end on the NW side of Lawrie Rd



S end on the SE side of Lawrie Rd



Table 187. Flora Species List at Roadside Marker Site 064.

Native				
Species Name	Common Name	AUS	SA	
Acacia argyrophylla	Silver Mulga-bush			
Acacia calamifolia	Wallowa			
Acacia hakeoides	Hakea Wattle			
Acacia oswaldii	Umbrella Wattle			
Austrostipa sp.	Spear-grass			
Enchylaena tomentosa var.	Ruby Saltbush			



Eucalyptus gracilis	Yorrell			
Eucalyptus porosa	Mallee Box			
Melaleuca lanceolata	Dryland Tea-tree			
Pittosporum angustifolium	Native Apricot			
Rhagodia parabolica	Mealy Saltbush			
Rytidosperma sp.	Wallaby-grass			
Santalum acuminatum	Quandong			
Senna artemisioides ssp. X	_			
coriacea	Broad-leaf Desert Senna			
Introduced				
Introduced Species Name	Common Name	Declared	WoNS	Environmental Weed
	Common Name Bearded Oat	Declared	WoNS	
Species Name		Declared	WoNS	Weed
Species Name  Avena barbata	Bearded Oat	Declared	WoNS	Weed Yes
Species Name  Avena barbata  Lactuca serriola f.	Bearded Oat Prickly Lettuce	Declared	WoNS	Weed Yes Yes

Table 188. Scores for Bushland Assessment Vegetation Condition Components for Roadside Marker Site 064.

Attribute	Score
Native Plant Species Diversity	21/30
Weeds	12/15
Native Plant Life forms	16/20
Regenerating	6/12
Native: Exotic Understorey Biomass	4/5
Tree Canopy cover	4/5
Hollow-bearing trees	3/5
Fallen Timber/debris	1/8
Mature Tree	2/8
TOTAL VEGETATION CONDITION SCORE	45.94/80



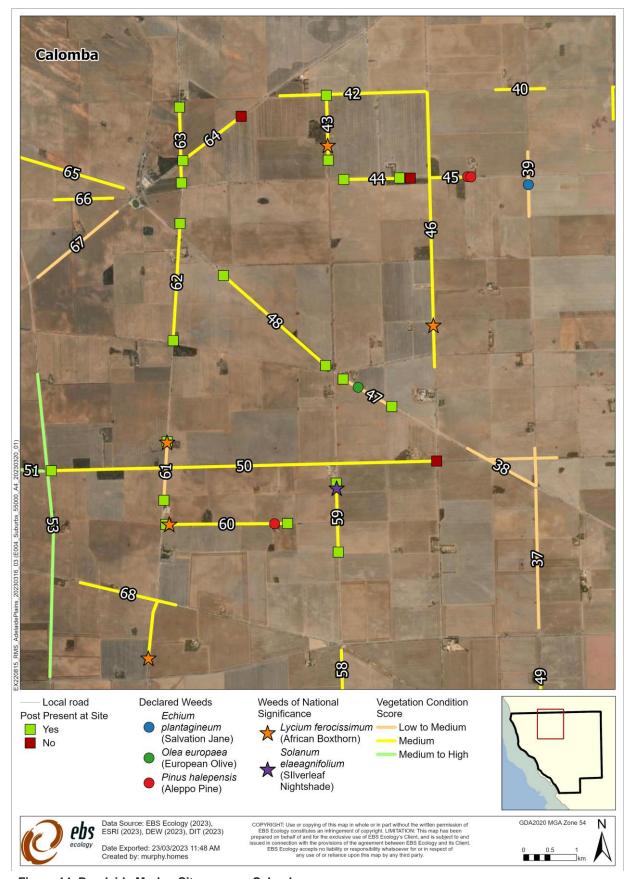


Figure 14. Roadside Marker Sites across Calomba.



#### 5.10 Windsor

A total of nine Sites were assessed across Windsor (Figure 15).

## 5.10.1 Roadside Marker Site 051 (Pritchard Rd)

Both posts were observed at Site 51 and this Site had a large diversity of species and a mixture of life forms (Table 189). A total of 20 native species were identified, with one species naturally regenerating. A total of 12 introduced species were observed, this includes six environmental weeds and four declared weeds, three of which are listed as WoNS (Table 190). One threatened species protected under the NPW Act was observed on Site, this included *Myoporum parviflorum* (Creeping boobialla). Overall, Site 51 received a VCS of 52.18 out of 80, reflecting vegetation of medium to high quality (Table 191).

Table 189. Summary of Roadside Marker Site 051.

Table 189. Summary of Roa	dside Marker Site 051.
Site	051
Road	Pritchard Rd
Suburb	Windsor
Date surveyed	15/12/2022
	Start: 138.3247 -34.4055 (W end on the N side of Pritchard Rd)
Longitude and Latitude	<b>End:</b> 138.3559 -34.4078 (E end on the S side of Pritchard Rd)
Posts present?	Yes
	Mowing of native vegetation, weed invasion, old tree guards, private property
Threats	signage on roadside verge
Vegetation Condition Score	Medium to High – 52.18
Adjacent land use	Cropping/agriculture
Vegetation association	Eucalyptus porosa Mallee over Senna artemisioides
	NA 5 – Mallee & Woodlands with Open Chenopod and Sclerophyll Shrub
Benchmark Community	understory.
	W end on the N side of Pritchard Rd
Photo points	E end on the S side of Pritchard Rd





Table 190. Flora Species List at Roadside Marker Site 051.

Native				
Species Name	Common Name	AUS	SA	
Acacia nyssophylla	Spine Bush			
Acacia oswaldii	Umbrella Wattle			
Acacia pycnantha	Golden Wattle			
Allocasuarina verticillata	Drooping Sheoak			
Amyema sp.	Mistletoe			
Atriplex nummularia ssp.	Old-man Saltbush			
Dianella sp.	Flax-lily			
Enchylaena tomentosa var.	Ruby Saltbush			
Eucalyptus porosa	Mallee Box			
Exocarpos aphyllus	Leafless Cherry			
Geijera linearifolia	Sheep Bush			
Maireana brevifolia	Short-leaf Bluebush			
Myoporum parvifolium	Creeping Boobialla			R
Nitraria billardierei	Nitre-bush			
Pittosporum angustifolium	Native Apricot			
Rhagodia candolleana ssp. candolleana	Sea-berry Saltbush			
Rhagodia parabolica	Mealy Saltbush			
Santalum acuminatum	Quandong			
Senna artemisioides ssp. X coriacea	Broad-leaf Desert Senna			
Tetragonia implexicoma	Bower Spinach			
Introduced	25.113.135.11			
Species Name	Common Name	Declared	WoNS	Environmental Weed
Aizoon pubescens	Coastal Galenia			Yes
Asteriscus spinosus	Golden Pallensis			Yes
Avena barbata	Bearded Oat			Yes
Brassica sp.				
Lycium ferocissimum	African Boxthorn	Yes	Yes	
Mesembryanthemum sp.	Iceplant			Yes
Oncosiphon suffruticosum	Calomba Daisy	Yes		
Onopordum acanthium	Scotch Thistle			
Opuntia stricta	Erect Prickly Pear	Yes	Yes	
Piptatherum miliaceum	Rice Millet			Yes
Solanum elaeagnifolium	Silver-leaf Nightshade	Yes	Yes	
Sonchus oleraceus	Common Sow-thistle			Yes



Table 191. Scores for Bushland Assessment Vegetation Condition Components for Roadside Marker Site 051.

Attribute	Score
Native Plant Species Diversity	27/30
Weeds	12/25
Native Plant Life forms	16/20
Regenerating	9/12
Native: Exotic Understorey Biomass	3/5
Tree Canopy cover	3/5
Hollow-bearing trees	3/5
Fallen Timber/debris	1.5/5
Mature Tree	4/8
TOTAL VEGETATION CONDITION SCORE	52.18/80

#### 5.10.2 Roadside Marker Site 052 (Carter Rd)

Both posts were observed at Site 52. Due to the close proximity to the Pork Wakefield Highway, this Site is being impacted by rubbish and illegal dumping. It was also noticed that a section of this Site was being utilised as a campsite (Table 192). A total of 21 native species were identified at Site 52, with two species naturally regenerating. A total of 13 introduced species were observed with the presence of eight environmental weeds, three declared weeds, one of which is listed as a WoNS *Lycium ferocissimum* (African Boxthorn) (Table 193). No threatened species protected under the NPW Act and the EPBC Act were observed on Site. Overall, Site 52 received a VCS of 43.73 out of 80, reflecting vegetation of medium quality (Table 194).

Table 192. Summary of Roadside Marker Site 052.

Site	052
Road	Carter Rd
Suburb	Windsor
Date surveyed	16/12/2022
	<b>Start:</b> 138.3447 -34.4074 (N end on the E side of Carter Rd)
Longitude and Latitude	End: 138.3411 -34.4367 (S end on the E side of Carter Rd)
Posts present?	Yes
Threats	Rubbish, old tree guards, garden plantings, weed invasion and squatters.
Vegetation Condition Score	Medium – 43.73
Adjacent land use	Cropping/agriculture
Vegetation association	Eucalyptus porosa Mallee over Senna artemisioides ssp. and Geijera linearifolia
	NA 5 – Mallee & Woodlands with Open Chenopod and Sclerophyll Shrub
Benchmark Community	understory.
Photo points	N end on the E side of Carter Rd





S end on the E side of Carter Rd



Table 193. Flora Species List at Roadside Marker Site 052.

Native				
Species Name	Common Name	AUS	SA	
Acacia hakeoides	Hakea Wattle			
Acacia notabilis	Notable Wattle			
Acacia oswaldii	Umbrella Wattle			
Acacia wilhelmiana	Dwarf Nealie			
Allocasuarina verticillata	Drooping Sheoak			
Austrostipa platychaeta	Flat-awn Spear-grass			
Austrostipa sp.	Spear-grass			
Enchylaena tomentosa var.	Ruby Saltbush			
Eucalyptus porosa	Mallee Box			
Eucalyptus socialis ssp.	Beaked Red Mallee			
Exocarpos aphyllus	Leafless Cherry			
Geijera linearifolia	Sheep Bush			
Maireana brevifolia	Short-leaf Bluebush			
Myoporum platycarpum ssp.	False Sandalwood			
Nitraria billardierei	Nitre-bush			
Pittosporum angustifolium	Native Apricot			
Rhagodia candolleana ssp.	Sea-berry Saltbush			
Santalum acuminatum	Quandong			
Sclerolaena diacantha	Grey Bindyi			
Senna artemisioides ssp. X coriacea	Broad-leaf Desert Senna			
Zygophyllum aurantiacum/eremaeum	Shrubby Twinleaf			



Introduced				
Species Name	Common Name	Declared	WoNS	Environmental Weed
Asphodelus fistulosus	Onion Weed			Yes
Avena barbata	Bearded Oat			Yes
Bromus diandrus	Great Brome			
Carrichtera annua	Ward's Weed			Yes
Centaurea calcitrapa	Star Thistle			Yes
Lycium ferocissimum	African Boxthorn	Yes	Yes	
Marrubium vulgare	Horehound	Yes		
Mesembryanthemum sp.	Iceplant			Yes
Oncosiphon suffruticosum	Calomba Daisy	Yes		
Piptatherum miliaceum	Rice Millet			Yes
Reichardia tingitana	False Sowthistle			
Salvia verbenaca var.	Wild Sage			Yes
Sonchus oleraceus	Common Sow-thistle			Yes

WoNS = Weeds of National Significance (LSA Act). AUS= National threatened species under the EPBC Act; SA= State threatened species under the NPW Act; RA= Rare, EN=Endangered, VU=Vulnerable, CE= Critically Endangered.

Table 194. Scores for Bushland Assessment Vegetation Condition Components for Roadside Marker Site 052.

Attribute	Score
Native Plant Species Diversity	27/30
Weeds	9/15
Native Plant Life forms	16/20
Regenerating	3/12
Native: Exotic Understorey Biomass	3/5
Tree Canopy cover	3/5
Hollow-bearing trees	3/5
Fallen Timber/debris	1/5
Mature Tree	3/8
TOTAL VEGETATION CONDITION SCORE	43.73/80

#### 5.10.3 Roadside Marker Site 053 (Avon Rd)

Both posts were observed at Site 53 (Table 195). A total of 25 native species were identified, with four species naturally regenerating. A total of 10 introduced species were observed with the presence of five environmental weeds and no declared weeds (Table 196). No threatened species protected under the NPW Act and the EPBC Act were observed on Site. Overall, Site 53 received a VCS of 53.44 out of 80, reflecting vegetation of medium to high quality (Table 197).

Table 195. Summary of Roadside Marker Site 053.

Site	053
Road	Avon Rd
Suburb	Windsor
Date surveyed	16/12/2022
	Start: 138.3552 -34.3913 (N end of on the W side of Avon Rd)
Longitude and Latitude	End: 138.3561 -34.4427 (S end of on the W side of Avon Rd)
Posts present?	Yes
Threats	Roadside plantings, weed invasion and rubbish



Cropping/agriculture  Eucalyptus porosa, E.odorata and E. socialis Mixed Mallee over Senna spp. and Acacia spp.  NA 5 – Mallee & Woodlands with Open Chenopod and Sclerophyll Shrub understory.  N end of on the W side of Avon Rd  S end of on the W side of Avon Rd
Vegetation association  NA 5 – Mallee & Woodlands with Open Chenopod and Sclerophyll Shrub understory.  N end of on the W side of Avon Rd
NA 5 – Mallee & Woodlands with Open Chenopod and Sclerophyll Shrub understory.  N end of on the W side of Avon Rd
N end of on the W side of Avon Rd  Nend of on the W side of Avon Rd
N end of on the W side of Avon Rd
S end of on the W side of Avon Rd
S end of on the W side of Avon Rd
Photo points

Table 196. Flora Species List at Roadside Marker Site 053.

Native				
Species Name	Common Name	AUS	SA	
Acacia hakeoides	Hakea Wattle			
Acacia oswaldii	Umbrella Wattle			
Acacia sp.	Wattle			
Austrostipa elegantissima	Feather Spear-grass			
Austrostipa platychaeta	Flat-awn Spear-grass			
Austrostipa sp.	Spear-grass			
Callitris gracilis	Southern Cypress Pine			
Enchylaena tomentosa var.	Ruby Saltbush			
Eucalyptus odorata	Peppermint Box			
Eucalyptus porosa	Mallee Box			



Native				
Species Name	Common Name	AUS	SA	
Eucalyptus socialis ssp.	Beaked Red Mallee			
Exocarpos aphyllus	Leafless Cherry			
Geijera linearifolia	Sheep Bush			
Lomandra multiflora ssp.	Many-flower Mat-rush			
Maireana brevifolia	Short-leaf Bluebush			
Olearia teretifolia	Cypress Daisy-bush			
Pittosporum angustifolium	Native Apricot			
Rhagodia candolleana ssp.	Sea-berry Saltbush			
Rhagodia parabolica	Mealy Saltbush			
Roepera aurantiaca ssp. aurantiaca	Shrubby Twinleaf			
Santalum acuminatum	Quandong			
Salsola australis	Buckbush			
Sclerolaena diacantha	Grey Bindyi			
Senna artemisioides ssp.	Desert Senna			
Senna artemisioides ssp. X				
coriacea	Broad-leaf Desert Senna			
Introduced				
Species Name	Common Name	Declared	WoNS	Environmental Weed
Agave sp.				
Asteriscus spinosus	Golden Pallensis			Yes
Avena barbata	Bearded Oat			Yes
Bromus diandrus	Great Brome			
Cactaceae sp.				
Carrichtera annua	Ward's Weed			Yes
Centaurea calcitrapa	Star Thistle			Yes
Mesembryanthemum sp.	Iceplant			
Piptatherum miliaceum	Rice Millet			Yes
Salvia verbenaca var.	Wild Sage			

Table 197. Scores for Bushland Assessment Vegetation Condition Components for Roadside Marker Site 053.

Attribute	Score	
Native Plant Species Diversity	27/30	
Weeds	12/15	
Native Plant Life forms	16/20	
Regenerating	3/12	
Native: Exotic Understorey Biomass	4/5	
Tree Canopy cover	4/5	
Hollow-bearing trees	4/5	
Fallen Timber/debris	3/5	
Mature Tree	4/8	
TOTAL VEGETATION CONDITION SCORE	53.44/80	

#### 5.10.4 Roadside Marker Site 068 (Windsor Rd and Long Plains Rd)

Only one post was observed at Site 68 (Table 198). A total of 20 native species were identified, with four species naturally regenerating. A total of 11 introduced species were observed with the presence of eight environmental weeds and one declared weed, which was also listed as a WoNS (Table 199). The State



Rare *Acacia iteaphylla* (Finders Ranges Wattle) was observed scattered throughout the Site, no other threated species was observed. Overall, Site 68 received a VCS of 37.97 out of 80, reflecting vegetation of medium quality (Table 200).

Table 198. Summary of Roadside Marker Site 068.

Site	068
Road	Windsor and Long Plains Rd
Suburb	Windsor
Date surveyed	16/12/2022
	Start: 138.3763 -34.4406 (S end of Long Plains Rd on the W side)
Longitude and Latitude	End: 138.3823 -34.4311 (E end of Windsor Rd on the S side)
Posts present?	One (E end of Windsor Rd, S side)
Threats	Pests (rabbits), garden plantings and weed invasion
Vegetation Condition Score	Medium – 37.97
Adjacent land use	Cropping/agriculture
Vegetation association	Eucalyptus gracilis Mallee over Acacia oswadii
Benchmark Community	NA 5 – Mallee & Woodlands with Open Chenopod and Sclerophyll Shrub understory.
	S end of Long Plains Rd on the W side

#### S end of Long Plains Rd on the W side



E end of Windsor Rd on the S side



**Photo points** 



Table 199. Flora Species List at Roadside Marker Site 068.

Native				
Species Name	Common Name	AUS	SA	
Acacia hakeoides	Hakea Wattle			
Acacia iteaphylla	Flinders Ranges Wattle			R
Acacia oswaldii	Umbrella Wattle			
Alectryon oleifolius ssp.				
canescens	Bullock Bush			
Atriplex nummularia ssp.	Old-man Saltbush			
Austrostipa platychaeta	Flat-awn Spear-grass			
Enchylaena tomentosa var.	Ruby Saltbush			
Eucalyptus gracilis	Yorrell			
Eucalyptus socialis ssp.	Beaked Red Mallee			
Exocarpos aphyllus	Leafless Cherry			
Geijera linearifolia	Sheep Bush			
Lomandra effusa	Scented Mat-rush			
Maireana brevifolia	Short-leaf Bluebush			
Melaleuca lanceolata	Dryland Tea-tree			
Rhagodia parabolica	Mealy Saltbush			
Roepera aurantiaca ssp.				
aurantiaca	Shrubby Twinleaf			
Rytidosperma sp.	Wallaby-grass			
Sclerolaena diacantha	Grey Bindyi			
Senna artemisioides ssp.	Desert Senna			
Senna artemisioides ssp. X				
coriacea	Broad-leaf Desert Senna			
Introduced				
Species Name	Common Name	Declared	WoNS	Environmental Weed
Asteriscus spinosus	Golden Pallensis			Yes
Avena barbata	Bearded Oat			Yes
Bromus diandrus	Great Brome			
Carrichtera annua	Ward's Weed			Yes
Centaurea calcitrapa	Star Thistle			Yes
Lycium ferocissimum	African Boxthorn	Yes	Yes	
Piptatherum miliaceum	Rice Millet			Yes
Reichardia tingitana	False Sowthistle			
Salvia verbenaca var.	Wild Sage			Yes
Scabiosa atropurpurea	Pincushion			Yes
Sisymbrium sp.	Wild Mustard			
Sonchus oleraceus	Common Sow-thistle			Yes

Table 200. Scores for Bushland Assessment Vegetation Condition Components for Roadside Marker Site 068.

Attribute	Score	
Native Plant Species Diversity	24/30	
Weeds	10.5/15	
Native Plant Life forms	12/20	
Regenerating	3/12	
Native: Exotic Understorey Biomass	3/5	
Tree Canopy cover	3/5	
Hollow-bearing trees	3/5	
Fallen Timber/debris	1/5	
Mature Tree	2/8	
TOTAL VEGETATION CONDITION SCORE	37.97/80	



#### 5.10.5 Roadside Marker Site 072 (Port Wakefield Rd – western side)

Only one post was observed at the start of the Site, on the N end of Port Wakefield Rd (Table 201). A total of 20 native species were identified, with three species naturally regenerating. A total of 10 introduced species were observed with the presence of seven environmental weeds and two declared weeds, both listed as WoNS (Table 202). No threatened species protected under the NPW Act and the EPBC Act were observed on Site. Overall, Site 72 received a VCS of 54.25 out of 80, reflecting vegetation of medium to high quality (Table 203).

Table 201. Summary of Roadside Marker Site 072

Site	072
Road	Port Wakefield Rd
Suburb	Windsor
Date surveyed	15/12/2022
	Start: 138.3375 -34.4311 (N end on the E side of Port Wakefield Rd)
Longitude and Latitude	End: 138.3454 -34.4434 (S end on the E side of Port Wakefield Rd)
Posts present?	One (N end on the E side of Port Wakefield Rd)
Threats	Weed invasion and rubbish
Vegetation Condition Score	Medium to High – 54.25
Adjacent land use	Cropping/agriculture
Vegetation association	Eucalyptus spp. Mixed Mallee over Geijera linearifolia
	NA 5 – Mallee & Woodlands with Open Chenopod and Sclerophyll Shrub
Benchmark Community	understory.
	N end on the E side of Port Wakefield Rd
Photo points	S end on the E side of Port Wakefield Rd





Native				
Species Name	Common Name	AUS	SA	
Acacia hakeoides	Hakea Wattle			
Acacia oswaldii	Umbrella Wattle			
Acacia pycnantha	Golden Wattle			
Acacia sp.	Wattle			
Acacia wilhelmiana	Dwarf Nealie			
Enchylaena tomentosa var.	Ruby Saltbush			
Eucalyptus gracilis	Yorrell			
Eucalyptus phenax ssp. phenax	White Mallee			
Eucalyptus porosa	Mallee Box			
Eucalyptus socialis	Beaked Red Mallee			
Geijera linearifolia	Sheep Bush			
Maireana brevifolia	Short-leaf Bluebush			
Melaleuca lanceolata	Dryland Tea-tree			
Myoporum platycarpum ssp.	False Sandalwood			
Nitraria billardierei	Nitre-bush			
Pittosporum angustifolium	Native Apricot			
Rytidosperma sp.	Wallaby-grass			
Santalum acuminatum	Quandong			
Senna artemisioides ssp.	Desert Senna			
Senna artemisioides ssp. X				
coriacea	Broad-leaf Desert Senna			
Vittadinia sp.	New Holland Daisy			
Introduced				
Species Name	Common Name	Declared	WoNS	Environmental Weed

Species Name	Common Name	Declared	WoNS	Environmental Weed
Aizoon pubescens	Coastal Galenia			Yes
Asparagus asparagoides f.	Bridal Creeper	Yes	Yes	
Asphodelus fistulosus	Onion Weed			Yes
Asteriscus spinosus	Golden Pallensis			Yes
Brassica sp.				
Lycium ferocissimum	African Boxthorn	Yes	Yes	
Mesembryanthemum nodiflorum	Slender Iceplant			Yes
Piptatherum miliaceum	Rice Millet			Yes
Reichardia tingitana	False Sowthistle			
Salvia verbenaca var. verbenaca	Wild Sage			Yes
Scabiosa atropurpurea	Pincushion			Yes



Table 203. Scores for Bushland Assessment Vegetation Condition Components for Roadside Marker Site 072.

Attribute	Score
Native Plant Species Diversity	24/30
Weeds	5.5/15
Native Plant Life forms	16/20
Regenerating	9/12
Native: Exotic Understorey Biomass	4/5
Tree Canopy cover	5/5
Hollow-bearing trees	3/5
Fallen Timber/debris	4/5
Mature Tree	6/8
TOTAL VEGETATION CONDITION SCORE	54.25/80

#### 5.10.6 Roadside Marker Site 073 (Port Wakefield Rd)

No posts were observed at Site 73 (Table 204). A total of 24 native species were identified, with eight species naturally regenerating. A total of 13 introduced species were observed with the presence of nine environmental weeds and one declared weed (Table 205). No threatened species protected under the NPW Act and the EPBC Act were observed on Site. Overall, Site 73 received a VCS of 50.95 out of 80, reflecting vegetation of medium to high quality (Table 206).

Table 204. Summary of Roadside Marker Site 073.

Site	073
Road	Port Wakefield Rd
Suburb	Windsor
Date surveyed	16/12/2022
	<b>Start:</b> 138.3091 -34.3903 (S end of Port Wakefield Rd)
Longitude and Latitude	<b>End:</b> 138.3025-34.3804 (N end of Port Wakefield Rd)
Posts present?	No
Threats	Weed invasion and rubbish
Vegetation Condition Score	Medium to High – 50.95
Adjacent land use	Cropping/agriculture
	Eucalyptus gracilis and E. dumosa Mallee over Nitraria billardierei and Geijera
Vegetation association	linearifolia
	NA 5 – Mallee & Woodlands with Open Chenopod and Sclerophyll Shrub
Benchmark Community	understory.
Photo points	S end of Port Wakefield Rd





N end of Port Wakefield Rd



Table 205. Flora Species List at Roadside Marker Site 073.

Native				
Species Name	Common Name	AUS	SA	
Acacia oswaldii	Umbrella Wattle			
Acacia sp.	Wattle			
Acacia wilhelmiana	Dwarf Nealie			
Allocasuarina verticillata	Drooping Sheoak			
Atriplex paludosa ssp.	Marsh Saltbush			
Austrostipa sp.	Spear-grass			
Callitris gracilis	Southern Cypress Pine			
Chloris truncata	Windmill Grass			
Enchylaena tomentosa var.	Ruby Saltbush			
Enneapogon sp.	Bottle-washers/Nineawn			
Eucalyptus dumosa	White Mallee			
Eucalyptus gracilis	Yorrell			
Exocarpos aphyllus	Leafless Cherry			
Geijera linearifolia	Sheep Bush			
Maireana brevifolia	Short-leaf Bluebush			
Maireana enchylaenoides	Wingless Fissure-plant			
Melaleuca lanceolata	Dryland Tea-tree			
Myoporum platycarpum ssp.	False Sandalwood			
Nitraria billardierei	Nitre-bush			
Rytidosperma sp.	Wallaby-grass			
Santalum acuminatum	Quandong			<u> </u>
Sclerolaena diacantha	Grey Bindyi			<u> </u>
Senna artemisioides ssp.	Desert Senna			



Native				
Species Name	Common Name	AUS	SA	
Senna artemisioides ssp. X coriacea	Broad-leaf Desert Senna			
Solanum esuriale	Quena			
Threlkeldia diffusa	Coast Bonefruit			
Vittadinia cuneata var.	Fuzzy New Holland Daisy			
Introduced				
Species Name	Common Name	Declared	WoNS	Environmental Weed
Aizoon pubescens	Coastal Galenia			Yes
Asphodelus fistulosus	Onion Weed			Yes
Asteriscus spinosus	Golden Pallensis			Yes
Avena barbata	Bearded Oat			Yes
Avena sp.	Oat			
Bromus diandrus	Great Brome			
Carrichtera annua	Ward's Weed			Yes
Echium plantagineum	Salvation Jane	Yes		
Mesembryanthemum sp.	Iceplant			Yes
Piptatherum miliaceum	Rice Millet			Yes
Reichardia tingitana	False Sowthistle			
Scabiosa atropurpurea	Pincushion			Yes
Schinus molle	Pepper-tree			Yes

Table 206. Scores for Bushland Assessment Vegetation Condition Components for Roadside Marker Site 073.

Attribute	Score
Native Plant Species Diversity	24/30
Weeds	5.5/15
Native Plant Life forms	16/20
Regenerating	9/12
Native: Exotic Understorey Biomass	4/5
Tree Canopy cover	4/5
Hollow-bearing trees	3/5
Fallen Timber/debris	1.5/5
Mature Tree	6/8
TOTAL VEGETATION CONDITION SCORE	50.95/80

# 5.10.7 Roadside Marker Site 074 (Bakers Rd)

Only one post was observed on the W end of Bakers Rd (Table 207). A total of 16 native species were identified at Site 74, with one species naturally regenerating. A total of eight introduced species were observed with the presence of four environmental weeds and one declared weed (Table 208). The State Rare *Acacia iteaphylla* (Flinders Ranges Wattle) was observed on Site. However, it is likely that this individual was planted. Overall, Site 74 received a VCS of 16.09 out of 80, reflecting vegetation of low quality (Table 209).

Table 207. Summary of Roadside Marker Site 074.

-	
Site	074



Road	Bakers Rd		
Suburb	Windsor		
Date surveyed	15/12/2022		
	Start:138.3257 -34.3813 (E end on the N side of Bakers Rd)		
Longitude and Latitude	End: 138.3342 -34.3819 (W end on the N side of Bakers Rd)		
Posts present?	One (W end on the N side of Bakers Rd)		
Threats	Weed invasion		
Vegetation Condition Score	Low – 16.09		
Adjacent land use	Cropping/agriculture		
Vegetation association	Eucalyptus socialis Mallee over chenopod shrubs		
	NA 5 – Mallee & Woodlands with Open Chenopod and Sclerophyll Shrub		
Benchmark Community	understory.		
	E end on the N side of Bakers Rd		



W end on the N side of Bakers Rd



Photo points



Table 208. Flora Species List at Roadside Marker Site 074.

Native				
Species Name	Common Name	AUS	SA	
Acacia brachybotrya	Grey Mulga-bush			
Acacia iteaphylla	Flinders Ranges Wattle			R
Acacia ligulata	Umbrella Bush			
Acacia oswaldii	Umbrella Wattle			
Atriplex semibaccata	Berry Saltbush			
Austrostipa sp.	Spear-grass			
Callitris verrucosa	Scrub Cypress Pine			
Enchylaena tomentosa var.	Ruby Saltbush			
Eucalyptus socialis ssp.	Beaked Red Mallee			
Melaleuca brevifolia	Short-leaf Honey-myrtle			
Melaleuca lanceolata	Dryland Tea-tree			
Nitraria billardierei	Nitre-bush			
Rhagodia parabolica	Mealy Saltbush			
Salsola australis	Buckbush			
Salsola australis	Buckbush			
Solanum esuriale	Quena			
Introduced				
Species Name	Common Name	Declared	WoNS	Environmental Weed
Aizoon pubescens	Coastal Galenia			Yes
Avena barbata	Bearded Oat			Yes
Cynodon dactylon var.	Couch			
Hordeum vulgare	Barley			
Lolium perenne	Perennial Ryegrass			Yes
Mesembryanthemum sp.	Iceplant			Yes
Oncosiphon suffruticosum	Calomba Daisy	Yes		
Reichardia tingitana	False Sowthistle			
Reseda alba	White Mignonette			

Table 209. Scores for Bushland Assessment Vegetation Condition Components for Roadside Marker Site 074.

Attribute	Score
Native Plant Species Diversity	15/30
Weeds	9/15
Native Plant Life forms	4/20
Regenerating	3/12
Native: Exotic Understorey Biomass	3/5
Tree Canopy cover	0/5
Hollow-bearing trees	1/5
Fallen Timber/debris	1/5
Mature Tree	2/8
TOTAL VEGETATION CONDITION SCORE	16.09/80

# 5.10.8 Roadside Marker Site 099 (Port Wakefield Rd)

Only one post was observed at the N end of the Site, no post was present at the S end of the Site therefore, the Site assessment ended at the DPTI 746 sign (Table 210). A total of 19 native species were identified at Site 99, with three species naturally regenerating. A total of 11 introduced species were observed with



the presence of five environmental weeds, three declared weeds (one WoNS) (Table 211). No threatened species protected under the NPW Act and the EPBC Act were observed on Site. Overall, Site 99 received a VCS 48.13 out of 80, reflecting vegetation of medium quality (Table 212).

Table 210. Summary of Roadside Marker Site 099.

Site	099	
Road	Port Wakefield Rd	
Suburb	Windsor	
Date surveyed	15/12/2022	
	Start: (N end on the E side of Port Wakefield Rd)	
Longitude and Latitude	End: (S end on the W side of Port Wakefield Rd)	
Posts present?	One (N end on the E side of Port Wakefield Rd)	
Threats	Weed invasion and rubbish	
Vegetation Condition Score	Medium – 48.13	
Adjacent land use	Cropping/agriculture	
Vegetation association	Eucalyptus gracilis and E. dumosa Mixed Mallee over Geijera linearifolia	
Daniel de Campanier	NA 5 – Mallee & Woodlands with Open Chenopod and Sclerophyll Shrub	
Benchmark Community	understory.	
	N end on the E side of Port Wakefield Rd	
Photo points	S end on the W side of Port Wakefield Rd	





Table 211. Flora Species List at Roadside Marker Site 099.

Native				
Species Name	Common Name	AUS	SA	
Acacia oswaldii	Umbrella Wattle			
Acacia wilhelmiana	Dwarf Nealie			
Atriplex sp.	Saltbush			
Austrostipa sp.	Spear-grass			
Callitris sp.	Native Pine			
Dianella sp.	Flax-lily			
Enchylaena tomentosa var.	Ruby Saltbush			
Enchylaena tomentosa var.	Ruby Saltbush			
Eucalyptus gracilis	Yorrell			
Eucalyptus dumosa	White Mallee			
Exocarpos aphyllus	Leafless Cherry			
Geijera linearifolia	Sheep Bush			
Melaleuca brevifolia	Short-leaf Honey-myrtle			
Nitraria billardierei	Nitre-bush			
Pittosporum angustifolium	Native Apricot			
Roepera aurantiaca ssp.				
aurantiaca	Shrubby Twinleaf			
Rytidosperma sp.	Wallaby-grass			
Santalum acuminatum	Quandong			
Senna artemisioides ssp.				
petiolaris				
Introduced				
Species Name	Common Name	Declared	WoNS	Environmental Weed
Aloe sp.	Aloe			
Arctotheca calendula	Cape Weed			Yes
Asphodelus fistulosus	Onion Weed			Yes
Avena barbata	Bearded Oat			Yes
Gazania sp.	Gazania	Yes		
Mesembryanthemum sp.	Iceplant			Yes
Oncosiphon suffruticosum	Calomba Daisy	Yes		
Opuntia stricta	Erect Prickly Pear	Yes	Yes	



Pinus sp.	Pine		
Reichardia tingitana	False Sowthistle		
Scabiosa atropurpurea	Pincushion		Yes

WoNS = Weeds of National Significance (LSA Act). AUS= National threatened species under the EPBC Act; SA= State threatened species under the NPW Act; RA= Rare, EN=Endangered, VU=Vulnerable, CE= Critically Endangered.

Table 212. Scores for Bushland Assessment Vegetation Condition Components for Roadside Marker Site 099.

Attribute	Score
Native Plant Species Diversity	21/30
Weeds	7/15
Native Plant Life forms	16/20
Regenerating	6/12
Native: Exotic Understorey Biomass	4/5
Tree Canopy cover	4/5
Hollow-bearing trees	2/5
Fallen Timber/debris	4/5
Mature Tree	6/8
TOTAL VEGETATION CONDITION SCORE	48.13/80

#### 5.10.9 Roadside Marker Site 100 (Lowey Rd)

No posts were observed at Site 100. However, a stake with no sign was present at the S end of Lowey Rd (Table 213). A total of 16 native species were identified, with four species naturally regenerating. A total of 14 introduced species were observed with the presence of six environmental weeds, four declared weeds, two of which are listed as WoNS (Table 214). This Site had large infestation of garden escapes such as *Aloe sp.* and *Opuntia sp.* No threatened species protected under the NPW Act and the EPBC Act were observed on Site. Overall, Site 100 received a VCS of 14.63 out of 80, reflecting vegetation of low quality (Table 215).

Table 213. Summary of Roadside Marker Site 100.

Site	100
Road	Lowey Rd
Suburb	Windsor
Date surveyed	15/12/2022
	Start: 138.314 -34.3974 (N end of Lowey Rd)
Longitude and Latitude	End: 138.3193 -34.4053 (S end of Lowey Rd)
Posts present?	No
Threats	Weed invasion, garden escapes and illegal dumping
Vegetation Condition Score	Low – 14.63
Adjacent land use	Cropping/agriculture
Vegetation association	Acacia oswaldii shrubland over chenopod shrubs
Benchmark Community	NA 5 – Mallee & Woodlands with Open Chenopod and Sclerophyll Shrub understory.







S end of Lowey Rd



Table 214. Flora Species List at Roadside Marker Site 100.

Native				
Species Name	Common Name	AUS	SA	
Acacia cyclops	Western Coastal Wattle			
Acacia sp.	Wattle			
Acacia wilhelmiana	Dwarf Nealie			
Atriplex nummularia ssp.	Old-man Saltbush			
Atriplex paludosa ssp.	Marsh Saltbush			
Austrostipa sp.	Spear-grass			
Dianella sp.	Flax-lily			
Enchylaena tomentosa var.	Ruby Saltbush			
Enneapogon sp.	Bottle-washers/Nineawn			
Eucalyptus dumosa	White Mallee			
Euphorbia drummondii s.str.				
Geijera linearifolia	Sheep Bush			
Maireana brevifolia	Short-leaf Bluebush			
Nitraria billardierei	Nitre-bush			
Rhagodia candolleana ssp.	Sea-berry Saltbush			
Rhagodia parabolica	Mealy Saltbush			
Sclerolaena diacantha	Grey Bindyi			
Introduced				
Species Name	Common Name	Declared	WoNS	Environmental Weed
Aizoon pubescens	Coastal Galenia			Yes



Aloe sp.	Aloe			
Asphodelus fistulosus	Onion Weed			Yes
Asteriscus spinosus	Golden Pallensis			Yes
Avena barbata	Bearded Oat			Yes
Carrichtera annua	Ward's Weed			Yes
Lycium ferocissimum	African Boxthorn	Yes	Yes	
Marrubium vulgare	Horehound	Yes		
Mesembryanthemum sp.	Iceplant			
Oncosiphon suffruticosum	Calomba Daisy	Yes		
Opuntia stricta	Erect Prickly Pear	Yes	Yes	
Pinus sp.	Pine			
Reichardia tingitana	False Sowthistle			
Schinus molle	Pepper-tree			Yes

WoNS = Weeds of National Significance (LSA Act). AUS= National threatened species under the EPBC Act; SA= State threatened species under the NPW Act; RA= Rare, EN=Endangered, VU=Vulnerable, CE= Critically Endangered.

Table 215. Scores for Bushland Assessment Vegetation Condition Components for Roadside Marker Site 100.

Attribute	Score
Native Plant Species Diversity	12/30
Weeds	4.5/15
Native Plant Life forms	8/20
Regenerating	3/12
Native: Exotic Understorey Biomass	3/5
Tree Canopy cover	0/5
Hollow-bearing trees	0/5
Fallen Timber/debris	1/5
Mature Tree	2/8
TOTAL VEGETATION CONDITION SCORE	14.63/80



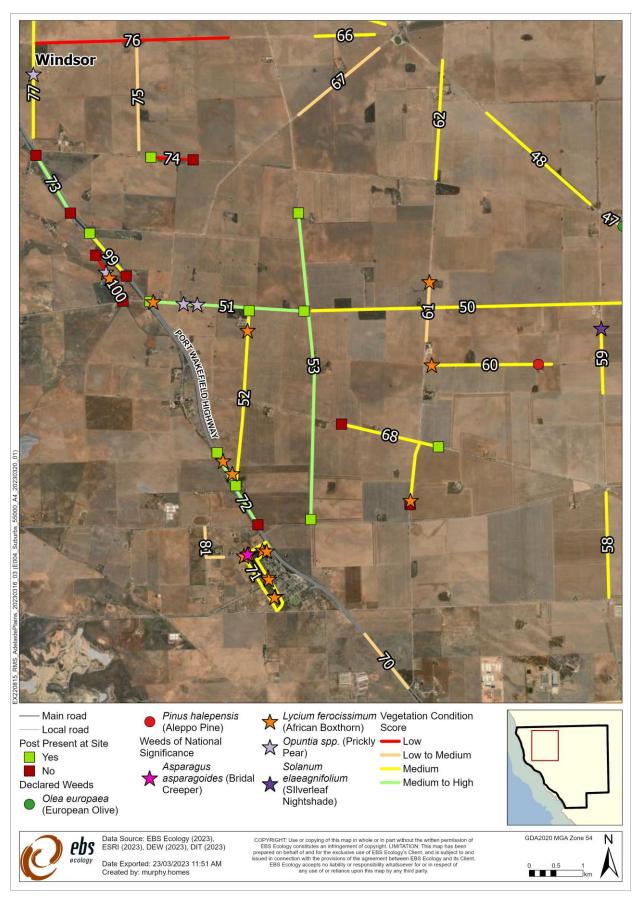


Figure 15. Roadside Marker Sites across Windsor.



### 5.11 Dublin

A total of 10 Sites were assessed across Dublin (Figure 17), this includes Dublin Heritage Scrub (Figure 16).

### 5.11.1 Roadside Marker Site 054 (Carslake Rd)

Both posts were observed at Site 54 (Table 216). A total of 17 native species were identified, with no signs of natural regenerating. A total of 18 introduced species were observed with the presence of 10 environmental weeds, three declared weeds, two of which are listed as WoNS (Table 217). No threatened species protected under the NPW Act and the EPBC Act were observed on Site. Overall, Site 54 received a VCS of 31.34 out of 80, reflecting vegetation of low to medium quality (Table 218).

Table 216. Summary of Roadside Marker Site 054.

Table 216. Summary of Road	dside Marker Site 054.
Site	054
Road	Carslake Rd
Suburb	Dublin
Date surveyed	9/1/2023
	Start: 138.4356 -34.4741 (E end on the S side of Carslake Rd)
Longitude and Latitude	End: 138.4045 -34.4751(W end on the S side of Carslake Rd)
Posts present?	Yes
Threats	Non-indigenous plantings, pests (rabbits) and weed invasions
Vegetation Condition Score	Low to Medium – 31.34
Adjacent land use	Cropping/agriculture
Vegetation association	Eucalysptus spp. Mixed Mallee over chenopod shrubs
	NA 5 – Mallee & Woodlands with Open Chenopod and Sclerophyll Shrub
Benchmark Community	understory.
	E end on the S side of Carslake Rd
Photo points	W end on the S side of Carslake Rd





Table 217. Flora Species List at Roadside Marker Site 054.

Native				
Species Name	Common Name	AUS	SA	
Acacia hakeoides	Hakea Wattle			
Acacia sp.	Wattle			
Alectryon oleifolius ssp.				
canescens	Bullock Bush			
Callitris gracilis	Southern Cypress Pine			
Cassytha sp.	Dodder-laurel			
Dianella revoluta var.				
Enchylaena tomentosa var.	Ruby Saltbush			
Eucalyptus gracilis	Yorrell			
Eucalyptus odorata	Peppermint Box			
Eucalyptus socialis ssp.	Beaked Red Mallee			
Exocarpos aphyllus	Leafless Cherry			
Geijera linearifolia	Sheep Bush			
Melaleuca brevifolia	Short-leaf Honey-myrtle			
Pittosporum angustifolium	Native Apricot			
Rhagodia candolleana ssp.	Sea-berry Saltbush			
Sclerolaena diacantha	Grey Bindyi			
Senna artemisioides ssp.				
petiolaris				
Introduced				
Species Name	Common Name	Declared	WoNS	Environmental Weed
Aizoon pubescens	Coastal Galenia			Yes
Asphodelus fistulosus	Onion Weed			Yes
Avena barbata	Bearded Oat			Yes
Brassica sp.				
Centaurea calcitrapa	Star Thistle			Yes
Cucumis myriocarpus ssp.				
myriocarpus	Paddy Melon			
Lactuca serriola f.	Prickly Lettuce			Yes
Lycium ferocissimum	African Boxthorn	Yes	Yes	
Mesembryanthemum sp.	Iceplant			Yes
Oncosiphon suffruticosum	Calomba Daisy	Yes		
Opuntia sp.				
Piptatherum miliaceum	Rice Millet			Yes
Reichardia tingitana	False Sowthistle			
Salvia verbenaca var.	Wild Sage			Yes
Scabiosa atropurpurea	Pincushion			
Schinus molle	Pepper-tree			Yes
Solanum elaeagnifolium	Silver-leaf Nightshade	Yes	Yes	

Common Sow-thistle



Sonchus oleraceus

Yes

Table 218. Scores for Bushland Assessment Vegetation Condition Components for Roadside Marker Site 054.

Attribute	Score
Native Plant Species Diversity	21/30
Weeds	6.5/15
Native Plant Life forms	12/20
Regenerating	3/12
Native: Exotic Understorey Biomass	2/5
Tree Canopy cover	3/5
Hollow-bearing trees	2/5
Fallen Timber/debris	1.5/5
Mature Tree	3/8
TOTAL VEGETATION CONDITION SCORE	31.34/80

### 5.11.2 Roadside Marker Site 056 (Limerock Rd)

No posts were observed at Site 56 (Table 219). A total of 21 native species were identified, with two species naturally regenerating. A total of eight introduced species were observed with the presence of five environmental weeds and two declared weeds (Table 220). No threatened species protected under the NPW Act and the EPBC Act were observed on Site. Overall, Site 56 received a VCS of 29.91 out of 80, reflecting vegetation of low to medium quality (Table 221).

Table 219. Summary of Roadside Marker Site 056.

Site	056
Road	Limerock Rd
Suburb	Dublin
Date surveyed	9/1/2023
	<b>Start:</b> 138.3976 -34.4874 (W end on the S side of Limerock Rd)
Longitude and Latitude	End: 138.4204 -34.4874 (E end on the S side of Limerock Rd)
Posts present?	No
Threats	Rubble, native vegetation clearance and weed invasion
Vegetation Condition Score	Low to Medium – 29.91
Adjacent land use	Cropping/agriculture
Vegetation association	Eucalyptus oleosa and E. socialis Mixed Mallee over Atriplex nummularia ssp.
	NA 5 – Mallee & Woodlands with Open Chenopod and Sclerophyll Shrub
Benchmark Community	understory.
Photo points	W end on the S side of Limerock Rd





E end on the S side of Limerock Rd

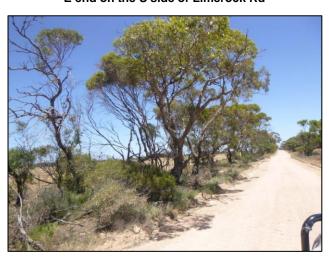


Table 220. Flora Species List at Roadside Marker Site 056.

Native				
Species Name	Common Name	AUS	SA	
Atriplex nummularia ssp.	Old-man Saltbush			
Atriplex stipitata	Bitter Saltbush			
Austrostipa sp.	Spear-grass			
Callitris gracilis	Southern Cypress Pine			
Cassytha sp.	Dodder-laurel			
Dianella brevicaulis	Short-stem Flax-lily			
Enchylaena tomentosa var.	Ruby Saltbush			
Eucalyptus oleosa ssp. ampliata				
Eucalyptus socialis ssp.	Beaked Red Mallee			
Eucalyptus gracilis	Yorrell			
Exocarpos aphyllus	Leafless Cherry			
Geijera linearifolia	Sheep Bush			
Melaleuca brevifolia	Short-leaf Honey-myrtle			
Nitraria billardierei	Nitre-bush			
Pittosporum angustifolium	Native Apricot			
Rhagodia parabolica	Mealy Saltbush			
Roepera angustifolia	Scrambling Twinleaf			
Roepera aurantiaca ssp.	Charles Trainles			
aurantiaca	Shrubby Twinleaf			
Salsola australis	Buckbush			
Santalum acuminatum Senna artemisioides ssp. petiolaris	Quandong			



Introduced				
Species Name	Common Name	Declared	WoNS	Environmental Weed
Aizoon pubescens	Coastal Galenia			Yes
Asphodelus fistulosus	Onion Weed			Yes
Avena barbata	Bearded Oat			Yes
Bromus diandrus	Great Brome			
Carrichtera annua	Ward's Weed			Yes
Marrubium vulgare	Horehound	Yes		
Mesembryanthemum sp.	Iceplant			Yes
Oncosiphon suffruticosum	Calomba Daisy	Yes		

WoNS = Weeds of National Significance (LSA Act). AUS= National threatened species under the EPBC Act; SA= State threatened species under the NPW Act; RA= Rare, EN=Endangered, VU=Vulnerable, CE= Critically Endangered.

Table 221. Scores for Bushland Assessment Vegetation Condition Components for Roadside Marker Site 056.

Attribute	Score	
Native Plant Species Diversity	24/30	
Weeds	8/15	
Native Plant Life forms	12/20	
Regenerating	3/12	
Native: Exotic Understorey Biomass	2/5	
Tree Canopy cover	2/5	
Hollow-bearing trees	2/5	
Fallen Timber/debris	0.5/5	
Mature Tree	2/8	
TOTAL VEGETATION CONDITION SCORE	29.91/80	

### 5.11.3 Roadside Marker Site 057 (Shannon Rd)

Both posts were observed at Site 57 (Table 222). A total of 18 native species were identified, with three species naturally regenerating. A total of five introduced species were observed with the presence of three environmental weeds and one declared weed (Table 223). No threatened species protected under the NPW Act and the EPBC Act were observed on Site. Overall, Site 57 received a VCS of 40.92 out of 80, reflecting vegetation of medium quality (Table 224).

Table 222. Summary of Roadside Marker Site 057.

Site	057
Road	Shannon Rd
Suburb	Dublin
Date surveyed	9/1/2023
	<b>Start:</b> 138.4185 -34.4751 (N end on the E side of Shannon Rd)
Longitude and Latitude	<b>End:</b> 138.422 -34.4925 (S end on the E side of Shannon Rd)
Posts present?	Yes
Threats	Illegal dumping
Vegetation Condition	Medium - 40.92
Score	Medium - 40.92
Adjacent land use	Cropping/agriculture



	N end on the E side of Shannon Rd
Benchmark Community	understory.
	NA 5 – Mallee & Woodlands with Open Chenopod and Sclerophyll Shrub
Vegetation association	petiolaris with Pittosporum angustifolium
	Eucalyptus brachycalyx and E. dumosa Mixed Mallee over Senna artemisioides ssp.



S end on the E side of Shannon Rd



Table 223. Flora Species List at Roadside Marker Site 057.

Native			
Species Name	Common Name	AUS	SA
Acacia argyrophylla	Silver Mulga-bush		
Acacia hakeoides	Hakea Wattle		
Atriplex sp.	Saltbush		
Cassytha sp.	Dodder-laurel		
Dianella revoluta var.			
Enchylaena tomentosa var.	Ruby Saltbush		
Eucalyptus brachycalyx	Gilja		
Eucalyptus dumosa	White Mallee		
Exocarpos aphyllus	Leafless Cherry		
Melaleuca lanceolata	Dryland Tea-tree		
Nitraria billardierei	Nitre-bush		
Pittosporum angustifolium	Native Apricot		
Roepera sp.	Twinleaf		
Santalum acuminatum	Quandong		
Sclerolaena diacantha	Grey Bindyi		



Native				
Species Name	Common Name	AUS	SA	
Senna artemisioides ssp. petiolaris				
Tetragonia sp.	False Spinach			
Threlkeldia diffusa	Coast Bonefruit			
Introduced				
Species Name	Common Name	Declared	WoNS	Environmental Weed
Avena barbata	Bearded Oat			Yes
Bromus diandrus	Great Brome			
Carrichtera annua	Ward's Weed			Yes
Lycium ferocissimum	African Boxthorn	Yes	Yes	
Mesembryanthemum sp.	Iceplant			Yes

Table 224. Scores for Bushland Assessment Vegetation Condition Components for Roadside Marker Site 057.

Attribute	Score
Native Plant Species Diversity	24/30
Weeds	10.5/15
Native Plant Life forms	12/20
Regenerating	3/12
Native: Exotic Understorey Biomass	2/5
Tree Canopy cover	4/5
Hollow-bearing trees	4/5
Fallen Timber/debris	1.5/5
Mature Tree	4/8
TOTAL VEGETATION CONDITION SCORE	40.92/80

# 5.11.4 Roadside Marker Site 058 (Shannon Rd)

Both posts were observed at Site 58 (Table 225). A total of 14 native species were identified, with four species naturally regenerating. A total of 11 introduced species were observed with the presence of seven environmental weeds, one declared weed, (Table 226). No threatened species protected under the NPW Act and the EPBC Act were observed on Site. Overall, Site 58 received a VCS of 37.95 out of 80, reflecting vegetation of medium quality (Table 227).

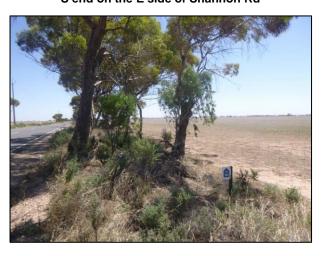
Table 225. Summary of Roadside Marker Site 058.

Site	058
Road	Shannon Rd
Suburb	Dublin
Date surveyed	9/1/2023
	Start: 138.416 -34.4571 (S end on the E side of Shannon Rd)
Longitude and Latitude	End: 138.416 -34.4395 (N end on the E side of Shannon Rd)
Posts present?	Yes
Threats	Weed invasion



Vegetation Condition Score	Medium – 37.95
Adjacent land use	Cropping/agriculture
	Eucalyptus oleosa ssp. ampliata ampliata and E. porosa Mixed Mallee over
Vegetation association	chenopod shrubs
	NA 5 – Mallee & Woodlands with Open Chenopod and Sclerophyll Shrub
Benchmark Community	understory.
	C and an the E side of Channan Dd

## S end on the E side of Shannon Rd



N end on the E side of Shannon Rd



Photo points

Table 226. Flora Species List at Roadside Marker Site 058.

Native			
Species Name	Common Name	AUS	SA
Acacia hakeoides	Hakea Wattle		
Acacia oswaldii	Umbrella Wattle		
Acacia wilhelmiana	Dwarf Nealie		
Enchylaena tomentosa var.	Ruby Saltbush		
Eucalyptus oleosa ssp. ampliata	Red Mallee		
Eucalyptus porosa	Mallee Box		
Eucalyptus socialis	Beaked Red Mallee		
Exocarpos aphyllus	Leafless Cherry		
Geijera linearifolia	Sheep Bush		
Melaleuca brevifolia	Short-leaf Honey-myrtle		



	1			
Melaleuca lanceolata	Dryland Tea-tree			
Nitraria billardierei	Nitre-bush			
Pittosporum angustifolium	Native Apricot			
Roepera sp.	Twinleaf			
Sclerolaena diacantha	Grey Bindyi			
Introduced				
Species Name	Common Name	Declared	WoNS	Environmental Weed
Asphodelus fistulosus	Onion Weed			Yes
Avena barbata	Bearded Oat			Yes
Brassica sp.				
Carrichtera annua	Ward's Weed			Yes
Conyza bonariensis	Flax-leaf Fleabane			Yes
Cynodon dactylon var.	Couch			Yes
Lactuca serriola f.	Prickly Lettuce			Yes
Marrubium vulgare	Horehound	Yes		
Piptatherum miliaceum	Rice Millet			Yes
Reichardia tingitana	False Sowthistle			
Sisymbrium sp.	Wild Mustard			

Table 227. Scores for Bushland Assessment Vegetation Condition Components for Roadside Marker Site 058.

Attribute	Score
Native Plant Species Diversity	18/30
Weeds	9/15
Native Plant Life forms	12/20
Regenerating	9/12
Native: Exotic Understorey Biomass	2/5
Tree Canopy cover	4/5
Hollow-bearing trees	3/5
Fallen Timber/debris	1/5
Mature Tree	3/8
TOTAL VEGETATION CONDITION SCORE	37.95/80

#### 5.11.5 Roadside Marker Site 069 (Port Wakefield Rd)

Both posts were observed at Site 69 (Table 228). A total of 15 native species were identified, with one species naturally regenerating. A total of nine introduced species were observed with the presence of six environmental weeds, two declared weeds, both of these species are also listed as WoNS (Table 229). No threatened species protected under the NPW Act and the EPBC Act were observed on Site. Overall, Site 69 received a VCS of 35.36 out of 80, reflecting vegetation of medium quality (Table 230).

Table 228. Summary of Roadside Marker Site 069.

Site	069
Road	Port Wakefield Rd
Suburb	Dublin
Date surveyed	9/1/2023
	<b>Start:</b> 138.381 -34.4776 (N end of Port Wakefield Rd)
Longitude and Latitude	End: 138.3961 -34.4937 (S end of Port Wakefield Rd)



Posts present?	Yes
Threats	Rubbish and weed invasion
Vegetation Condition Score	Medium – 35.36
Adjacent land use	Cropping/agriculture
Vegetation association	Eucalyptus oleosa ssp. ampliata Mallee over Pittosporum angustifolium
Benchmark Community	NA 5 – Mallee & Woodlands with Open Chenopod and Sclerophyll Shrub understory.
	N and of Port Wakefield Pd

### N end of Port Wakefield Rd



S end of Port Wakefield Rd



Table 229. Flora Species List at Roadside Marker Site 069.

Native			
Species Name	Common Name	AUS	SA
Acacia wilhelmiana	Dwarf Nealie		
Austrostipa sp.	Spear-grass		
Dianella revoluta var.			
Enchylaena tomentosa var.	Ruby Saltbush		
Enneapogon nigricans	Black-head Grass		
Eucalyptus oleosa ssp.			
Exocarpos aphyllus	Leafless Cherry		
Geijera linearifolia	Sheep Bush		
Melaleuca brevifolia	Short-leaf Honey-myrtle		



Melaleuca lanceolata	Dryland Tea-tree			
Nitraria billardierei	Nitre-bush			
Pittosporum angustifolium	Native Apricot			
Santalum acuminatum	Quandong			
Tetragonia sp.	False Spinach			
Threlkeldia diffusa	Coast Bonefruit			
Introduced				
Species Name	Common Name	Declared	WoNS	Environmental Weed
Asphodelus fistulosus	Onion Weed			Yes
Asteriscus spinosus	Golden Pallensis			Yes
Avena barbata	Bearded Oat			Yes
Cynodon dactylon var.	Couch			Yes
Lycium ferocissimum	African Boxthorn	Yes	Yes	
Reichardia tingitana	False Sowthistle			
Scabiosa atropurpurea	Pincushion			Yes
Schinus molle	Pepper-tree			Yes
Tamarix aphylla	Athel Pine	Yes	Yes	_

Table 230. Scores for Bushland Assessment Vegetation Condition Components for Roadside Marker Site 069.

Attribute	Score
Native Plant Species Diversity	21/30
Weeds	12/30
Native Plant Life forms	12/20
Regenerating	3/12
Native: Exotic Understorey Biomass	3/5
Tree Canopy cover	3/5
Hollow-bearing trees	2/5
Fallen Timber/debris	1/5
Mature Tree	2/5
TOTAL VEGETATION CONDITION SCORE	35.36/80

#### 5.11.6 Roadside Marker Site 070 (Port Wakefield Rd)

Both posts were observed at Site 70 (Table 231). A total of 13 native species were identified, with three species naturally regenerating. A total of five introduced species were observed all of which are classified as environmental weeds (Table 232). No threatened species protected under the NPW Act and the EPBC Act were observed on Site. Overall, Site 70 received a VCS of 23.20 out of 80, reflecting vegetation of low to medium quality (Table 233).

Table 231. Summary of Roadside Marker Site 070.

Site	070
Road	Port Wakefield Rd
Suburb	Dublin
Date surveyed	9/1/2023
	<b>Start:</b> 138.3665 -34.4622 (N end of Port Wakefield Rd)
Longitude and Latitude	End: 138.3749 -34.4714 (S end of Port Wakefield Rd)
Posts present?	Yes



Threats	Weed invasion
Vegetation Condition Score	Low to medium – 23.20
Adjacent land use	Cropping/agriculture
	Eucalyptus oleosa ssp. ampliata and E. brachycalyx Mixed Mallee over
Vegetation association	Pittosporum angustifolium
	NA 5 – Mallee & Woodlands with Open Chenopod and Sclerophyll Shrub
Benchmark Community	understory.
	N end of Port Wakefield Rd



S end of Port Wakefield Rd



Table 232. Flora Species List at Roadside Marker Site 070.

Native			
Species Name	Common Name	AUS	SA
Acacia wilhelmiana	Dwarf Nealie		
Austrostipa sp.	Spear-grass		
Callitris gracilis	Southern Cypress Pine		
Enchylaena tomentosa var.	Ruby Saltbush		
Enneapogon nigricans	Black-head Grass		
Eucalyptus brachycalyx	Gilja		
Eucalyptus oleosa ssp.			
ampliata	Red Mallee		
Geijera linearifolia	Sheep Bush		



Melaleuca brevifolia	Short-leaf Honey-myrtle			
Nitraria billardierei	Nitre-bush			
Pittosporum angustifolium	Native Apricot			
Sclerolaena diacantha	Grey Bindyi			
Threlkeldia diffusa	Coast Bonefruit			
Introduced				
Species Name	Common Name	Declared	WoNS	Environmental Weed
Species Name  Asphodelus fistulosus	Common Name Onion Weed	Declared	WoNS	
•		Declared	WoNS	Weed
Asphodelus fistulosus	Onion Weed	Declared	WoNS	Weed Yes
Asphodelus fistulosus Asteriscus spinosus	Onion Weed Golden Pallensis	Declared	WoNS	Yes Yes

Table 233. Scores for Bushland Assessment Vegetation Condition Components for Roadside Marker Site 070.

Attribute	Score	
Native Plant Species Diversity	18/30	
Weeds	11/15	
Native Plant Life forms	8/20	
Regenerating	3/12	
Native: Exotic Understorey Biomass	2/5	
Tree Canopy cover	2/5	
Hollow-bearing trees	1/5	
Fallen Timber/debris	1/5	
Mature Tree	1/8	
TOTAL VEGETATION CONDITION SCORE	23.20/80	

#### 5.11.7 Roadside Marker Site 071 (Dublin Heritage Scrub)

Site 71 underwent an on-ground assessment. The NE side of this Site reflected pre-European vegetation with a diversity of species and life forms and little weed invasion. However, the vegetation begins to degrade as you move west and south throughout the scrub. This Site contains large amounts of general rubbish and hard rubbish. Garden escapes are also present along the eastern boundary where the scrub meets dwellings (Table 234). Across this Site, a total of 40 native species were observed and 11 of these species naturally regenerating. A total of 13 introduced species were observed with the presence of seven environmental weeds, two declared weeds, both of which are listed as WoNS (Table 235). No threatened species protected under the NPW Act and the EPBC Act were observed on Site. Due to the large variation in condition throughout this Site, three separate assessment were undertaken. The scores were then averaged to get an overarching score of the entire Site (Table 234, Figure 16). Overall, Site 71 received a VCS of 37.71 out of 80, reflecting vegetation of medium quality. The north east section of the scrub contained vegetation of the highest quality with a VCS of 57.80 (Table 236).

Table 234. Summary of Roadside Marker Site 071.

Site	071
Road	Dublin Scrub
Suburb	Dublin



Date surveyed	12/1/2023
	Start: 138.3461 -34.4481 (NE corner of Dublin Scrub)
	138.3424-34.4486 (NW corner looking E)
Longitude and Latitude	End: 138.3496 -34.456 (West terrace)
Posts present?	No
Threats	Weed invasion, illegal dumping, pests (rabbits and cats) and garden escapes
Vegetation Condition Score	Medium – 37.71
Adjacent land use	Cropping/agriculture
	Eucalyptus gracilis and E.dumosa Mixed Mallee over Geijera linearifolia and
Vegetation association	chenopods shrubs
	NA 5 – Mallee & Woodlands with Open Chenopod and Sclerophyll Shrub
Benchmark Community	understory.
	NE corner looking west (VA 71)
	NW Corner looking west (VA 71a)







Table 235. Flora Species List at Roadside Marker Site 071.

Table 235. Flora Species List	at Nouvoide Mainer Oile VI	••	
Native			
Species Name	Common Name	AUS	SA
Acacia hakeoides	Hakea Wattle		
Acacia ligulata	Umbrella Bush		
Acacia oswaldii	Umbrella Wattle		
Acacia sp.	Wattle		
Acacia wilhelmiana	Dwarf Nealie		
Atriplex paludosa ssp.	Marsh Saltbush		
Austrostipa nodosa	Tall Spear-grass		
Austrostipa platychaeta	Flat-awn Spear-grass		
Austrostipa scabra ssp.	Rough Spear-grass		
Austrostipa sp.	Spear-grass		
Carpobrotus rossii	Native Pigface		
Chloris truncata	Windmill Grass		
Dianella revoluta var.			
Disphyma crassifolium ssp.			
clavellatum	Round-leaf Pigface		
Enchylaena tomentosa var.	Ruby Saltbush		
Eucalyptus brachycalyx	Gilja		
Eucalyptus gracilis	Yorrell		
Eucalyptus socialis ssp.	Beaked Red Mallee		
Euphorbia dallachyana	Caustic Weed		
Exocarpos aphyllus	Leafless Cherry		
Geijera linearifolia	Sheep Bush		
Maireana eriantha	Woolly Bluebush		
Maireana erioclada	Rosy Bluebush		
Maireana sp.	Bluebush/Fissure-plant		
Melaleuca brevifolia	Short-leaf Honey-myrtle		
Melaleuca lanceolata	Dryland Tea-tree		
Nitraria billardierei	Nitre-bush		
Pimelea sp.	Riceflower		
Pittosporum angustifolium	Native Apricot		
Rhagodia parabolica	Mealy Saltbush		
Roepera aurantiaca ssp.			
aurantiaca	Shrubby Twinleaf		
Roepera sp.	Twinleaf		
Rytidosperma caespitosum	Common Wallaby-grass		
Rytidosperma sp.	Wallaby-grass		
Santalum acuminatum	Quandong		
Senna artemisioides ssp.	Desert Senna		



Native				
Species Name	Common Name	AUS	SA	
Senna artemisioides ssp. X coriacea	Broad-leaf Desert Senna			
Suaeda australis	Austral Seablite			
Tetragonia sp.	False Spinach			
Vittadinia sp.	New Holland Daisy			
Introduced				
Species Name	Common Name	Declared	WoNS	Environmental Weed
Asparagus asparagoides f.	Bridal Creeper	Yes	Yes	
Asphodelus fistulosus	Onion Weed			Yes
Asteriscus spinosus	Golden Pallensis			Yes
Avena barbata	Bearded Oat			Yes
Cactaceae sp.				
Carrichtera annua	Ward's Weed			Yes
Gomphocarpus cancellatus	Broad-leaf Cotton-bush			
Lactuca serriola f.	Prickly Lettuce			Yes
Limonium sp.	Sea-lavender			
Lycium ferocissimum	African Boxthorn	Yes	Yes	
Mesembryanthemum sp.	Iceplant			Yes
Reichardia tingitana	False Sowthistle			
Scabiosa atropurpurea	Pincushion			Yes

WoNS = Weeds of National Significance (LSA Act). AUS= National threatened species under the EPBC Act; SA= State threatened species under the NPW Act; RA= Rare, EN=Endangered, VU=Vulnerable, CE= Critically Endangered.

Table 236. Scores for Bushland Assessment Vegetation Condition Components for Roadside Marker Site 071.

Attribute	71	71a	71b	Average score
Native Plant Species Diversity	22/30	22/30	16/30	20/30
Weeds	3/15	2/15	1/15	2/15
Native Plant Life forms	20/20	20/20	16/20	18.6/20
Regenerating	12/12	12/12	4.5/12	9.5/12
Native: Exotic Understorey Biomass	5/5	3/5	3/5	3.6/5
Tree Canopy cover	5/5	1/5	0/5	2/5
Hollow-bearing trees	4/5	2/5	0/5	2/5
Fallen Timber/debris	4/5	1/5	0.5/5	1.8/5
Mature Tree	6/8	2/8	0/8	2.6/8
TOTAL VEGETATION CONDITION SCORE	57.80/80	36.14/80	19.19/80	37.71/80



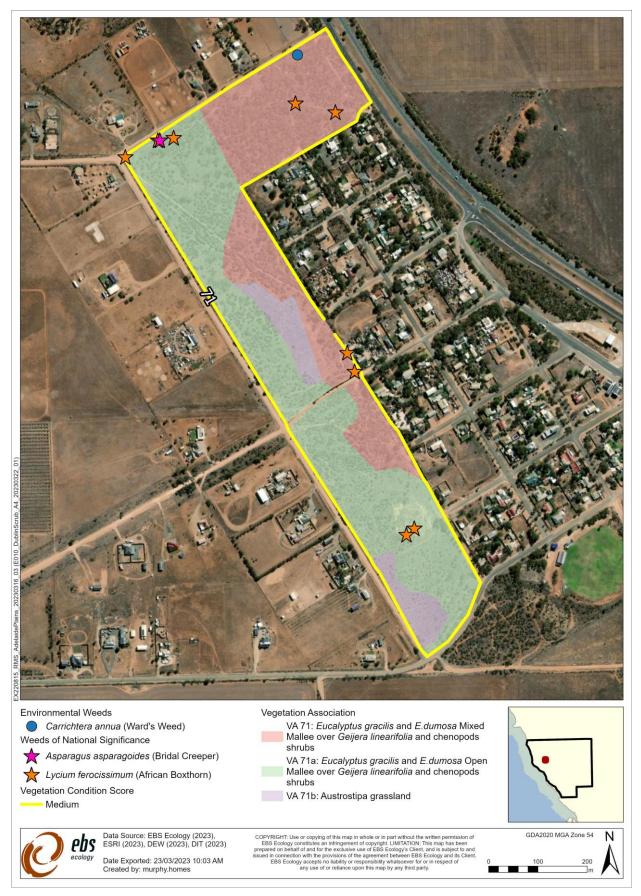


Figure 16. Vegetation association within Dublin Scrub.



### 5.11.8 Roadside Marker Site 081 (Bubner Rd and Harris Rd)

No posts were observed at Site 81 (Table 237). A total of 18 native species were identified, with three species naturally regenerating. A total of nine introduced species were observed with the presence of seven environmental weeds and one declared weed, which is also listed as WoNS (Table 238). No threatened species protected under the NPW Act and the EPBC Act were observed on Site. Overall, Site 81 received a VCS of 26.66 out of 80, reflecting vegetation of low to medium quality (Table 239).

Table 237. Summary of Roadside Marker Site 081.

Site	081
Road	Bubner and Harris Rd
Suburb	Dublin
Date surveyed	15/12/2022
	Start: 138.3346 -34.4436 (N end on the W side of Bubner Rd)
Longitude and Latitude	<b>End:</b> 138.3383 -34.4486 (End of Harris Rd)
Posts present?	No
Threats	Weed invasion and mowing of roadside vegetation
Vegetation Condition Score	Low to medium – 26.66
Adjacent land use	Cropping/agriculture
Vegetation association	Eucalyptus gracilis and E.dumosa over Geijera linearifolia and Threlkeldia diffusa
	NA 5 – Mallee & Woodlands with Open Chenopod and Sclerophyll Shrub
Benchmark Community	understory.
	N end on the W side of Bubner Rd
Photo points	E end of Harris Rd





Table 238. Flora Species List at Roadside Marker Site 081

Native				
Species Name	Common Name	AUS	SA	
Acacia hakeoides	Hakea Wattle			
Acacia sclerophylla var. sclerophylla	Hard-leaf Wattle			
Acacia sp.	Wattle			
Atriplex paludosa ssp.	Marsh Saltbush			
Enchylaena tomentosa var.	Ruby Saltbush			
Eucalyptus dumosa	White Mallee			
Eucalyptus gracilis	Yorrell			
Exocarpos aphyllus	Leafless Cherry			
Geijera linearifolia	Sheep Bush			
Maireana brevifolia	Short-leaf Bluebush			
Myoporum platycarpum ssp.	False Sandalwood			
Nitraria billardierei	Nitre-bush			
Roepera aurantiaca ssp. aurantiaca	Shrubby Twinleaf			
Rytidosperma sp.	Wallaby-grass			
Sclerolaena diacantha	Grey Bindyi			
Senna artemisioides ssp. petiolaris				
Tetragonia implexicoma	Bower Spinach			
Threlkeldia diffusa	Coast Bonefruit			
Introduced				
Species Name	Common Name	Declared	WoNS	Environmental Weed
Aizoon pubescens	Coastal Galenia			Yes
Asteriscus spinosus	Golden Pallensis			Yes
Avena barbata	Bearded Oat			Yes
Lycium ferocissimum	African Boxthorn	Yes	Yes	
Piptatherum miliaceum	Rice Millet			Yes
Reichardia tingitana	False Sowthistle			
Salvia sp.	Sage			Yes
Scabiosa atropurpurea	Pincushion			Yes
Sonchus sp.	Sow-thistle			Yes



Table 239. Scores for Bushland Assessment Vegetation Condition Components for Roadside Marker Site 081.

Attribute	Score	
Native Plant Species Diversity	21/30	
Weeds	7/15	
Native Plant Life forms	12/20	
Regenerating	3/12	
Native: Exotic Understorey Biomass	4/5	
Tree Canopy cover	0/5	
Hollow-bearing trees	0/5	
Fallen Timber/debris	1.5/5	
Mature Tree	2/8	
TOTAL VEGETATION CONDITION SCORE	26.66/80	

### 5.11.9 Roadside Marker Site 082 (Thompson Rd)

One posts was observed at the southern end of the Site on shingleback road (Table 240). A total of 17 native species were identified at Site 82, with one species naturally regenerating. A total of 11 introduced species were observed with the presence of five environmental weeds, four declared weeds, one of which are listed as WoNS (Table 241). No threatened species protected under the NPW Act and the EPBC Act were observed on Site. Overall, Site 82 received a VCS of 21.92 out of 80, reflecting vegetation of low quality (Table 242).

Table 240. Summary of Roadside Marker Site 082.

Site	082
Road	Thompson Rd
Suburb	Dublin
Date surveyed	9/1/2023
	<b>Start:</b> 138.3748 -34.4758 (E end on Thompson Beach Rd)
Longitude and Latitude	End: 138.3587 -34.4787 (S end on the E side of Shingleback Rd)
Posts present?	One (S end on the E side of Shingleback Rd)
Threats	Illegal dumping and weed invasion
Vegetation Condition Score	Low – 21.92
Adjacent land use	Cropping/agriculture
Vegetation association	Nitraria billardierei and Melaleuca brevifolia shrubland +/- Eucalyptus spp.
	NA 5 – Mallee & Woodlands with Open Chenopod and Sclerophyll Shrub
Benchmark Community	understory.
Photo points	E end on Thompson Rd





S end on the E side of Shingleback Beach Rd



Table 241. Flora Species List at Roadside Marker Site 082.

Native				
Species Name	Common Name	AUS	SA	
Acacia ligulata	Umbrella Bush			
Acacia notabilis	Notable Wattle			
Dianella brevicaulis	Short-stem Flax-lily			
Eucalyptus oleosa ssp. ampliata	Red Mallee			
Eucalyptus sp.				
Geijera linearifolia	Sheep Bush			
Melaleuca brevifolia	Short-leaf Honey-myrtle			
Melaleuca lanceolata	Dryland Tea-tree			
Nitraria billardierei	Nitre-bush			
Pittosporum angustifolium	Native Apricot			
Rhagodia candolleana ssp.	Sea-berry Saltbush			
Rhagodia parabolica	Mealy Saltbush			
Rytidosperma sp.	Wallaby-grass			
Sclerolaena diacantha/uniflora	Grey Bindyi			
Senna artemisioides ssp. petiolaris x ssp. sturtii	Desert Senna			
Tetragonia sp.	False Spinach			
Threlkeldia sp.	Bonefruit			
Introduced				
Species Name	Common Name	Declared	WoNS	Environmental Weed



Asphodelus fistulosus	Onion Weed			Yes
Asteriscus spinosus	Golden Pallensis			Yes
Avena barbata	Bearded Oat			Yes
Casuarina glauca	Grey Buloak	Yes		
Centaurea calcitrapa	Star Thistle			Yes
Cynara cardunculus ssp. flavescens	Artichoke Thistle	Yes		
Lycium ferocissimum	African Boxthorn	Yes	Yes	
Mesembryanthemum sp.	Iceplant			Yes
Oncosiphon suffruticosum	Calomba Daisy	Yes		
Reichardia tingitana	False Sowthistle			
Scabiosa atropurpurea	Pincushion			Yes

WoNS = Weeds of National Significance (LSA Act). AUS= National threatened species under the EPBC Act; SA= State threatened species under the NPW Act; RA= Rare, EN=Endangered, VU=Vulnerable, CE= Critically Endangered.

Table 242. Scores for Bushland Assessment Vegetation Condition Components for Roadside Marker Site 082.

Attribute	Score
Native Plant Species Diversity	18/30
Weeds	10.5/15
Native Plant Life forms	8/20
Regenerating	3/12
Native: Exotic Understorey Biomass	3/5
Tree Canopy cover	1/5
Hollow-bearing trees	0/5
Fallen Timber/debris	0.5/5
Mature Tree	1/8
TOTAL VEGETATION CONDITION SCORE	21.92/80

### 5.11.10 Roadside Marker Site 083 (Shingleback Beach Rd)

Both posts were observed at Site 83 (Table 243). A total of 17 native species were identified at Site 83, with one species naturally regenerating. A total of four introduced species were observed with the presence of one environmental weeds, two declared weeds, one of which are listed as WoNS (Table 243). No threatened species protected under the NPW Act and the EPBC Act were observed on Site. Overall, Site 83 received a VCS of 26.95 out of 80, reflecting vegetation of low to medium quality (Table 245).

Table 243. Summary of Roadside Marker Site 083.

Site	083
Road	Shingleback Beach Road
Suburb	Dublin
Date surveyed	9/1/2022
	Start: 138.3586 -34.4843 (N end on the W side of Shingleback Beach Rd)
Longitude and Latitude	End: 138.353 -34.4874 (W end on the N side of Shingleback Beach Rd)
Posts present?	Yes
Threats	Weed invasion and pests (rabbits)
Vegetation Condition	Low to Medium – 26.95
Score	
Adjacent land use	Cropping/agriculture



Vegetation association	Eucalyptus oleosa and E. gracilis Mixed Open Mallee over Atriplex paludosa and Nitraria billardierei		
	NA 5 – Mallee & Woodlands with Open Chenopod and Sclerophyll Shrub		
Benchmark Community	understory.		
	S end on the N side of Shingleback Beach Rd		
	W end on the E side of Shingleback Beach Rd		
Photo points			

Table 244. Flora Species List at Roadside Marker Site 083.

Native				
Species Name	Common Name	AUS	SA	
Atriplex paludosa ssp.	Marsh Saltbush			
Atriplex paludosa ssp. cordata	Marsh Saltbush			
Austrostipa sp.	Spear-grass			
Dianella brevicaulis	Short-stem Flax-lily			
Eucalyptus dumosa	White Mallee			
Eucalyptus gracilis	Yorrell			
Eucalyptus oleosa ssp. ampliata	Red Mallee			
Exocarpos aphyllus	Leafless Cherry			
Geijera linearifolia	Sheep Bush			
Maireana brevifolia	Short-leaf Bluebush			
Melaleuca acuminata ssp. acuminata	Mallee Honey-myrtle			
Melaleuca brevifolia	Short-leaf Honey-myrtle			
Nitraria billardierei	Nitre-bush			



Native				
Species Name	Common Name	AUS	SA	
Rytidosperma sp.	Wallaby-grass			
Salicornia blackiana	Thick-head Samphire			
Tecticornia sp.				
Threlkeldia sp.	Bonefruit			
Introduced				
Species Name	Common Name	Declared	WoNS	Environmental Weed
Carthamus lanatus	Saffron Thistle			Yes
Limonium sp.	Sea-lavender			
Lycium ferocissimum	African Boxthorn	Yes	Yes	
Oncosiphon suffruticosum	Calomba Daisy	Yes		

Table 245. Scores for Bushland Assessment Vegetation Condition Components for Roadside Marker Site 083.

Attribute	Score
Native Plant Species Diversity	21/30
Weeds	9/15
Native Plant Life forms	12/20
Regenerating	3/12
Native: Exotic Understorey Biomass	2/5
Tree Canopy cover	2/5
Hollow-bearing trees	1/5
Fallen Timber/debris	0.5/5
Mature Tree	1/8
TOTAL VEGETATION CONDITION SCORE	26.95/80



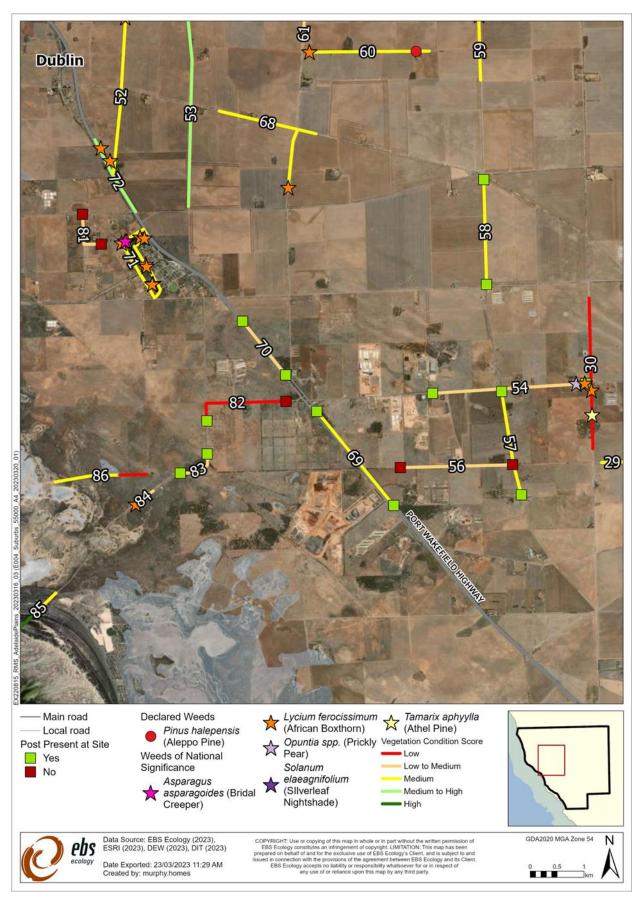


Figure 17. Roadside Marker Sites across Dublin.



# 5.12 Long Plains

A total of four Sites were assessed across Long Plains (Figure 18).

### 5.12.1 Roadside Marker Site 065 (Lyons Rd)

Both posts were observed at Site 65 (Table 246). A total of 32 native species were identified, with five species naturally regenerating. A total of 15 introduced species were observed with the presence of eight environmental weeds, five declared weeds, two of which are listed as WoNS (Table 247). No threatened species protected under the NPW Act and the EPBC Act were observed on Site. Overall, Site 65 received a VCS of 38.83 out of 80, reflecting vegetation of medium quality (Table 248).

Table 246. Summary of Roadside Marker Site 065.

Site	065		
Road	Lyons Rd		
Suburb	Long Plains		
Date surveyed	15/12/2022		
	Start: 138.3738 -34.36 (E end on the S side of Lyons Rd)		
Longitude and Latitude	<b>End:</b> 138.3494 -34.3534 (W end on the S side of Lyons Rd)		
Posts present?	Yes		
Threats	Weed invasion, illegal dumping and old tree guards		
Vegetation Condition Score	Medium - 38.83		
Adjacent land use	Cropping/agriculture		
Vegetation association	Eucalyptus gracilis and E. porosa Mixed Mallee over Pittosporum angustifolium and chenopod shrubs		
	NA 5 – Mallee & Woodlands with Open Chenopod and Sclerophyll Shrub		
Benchmark Community	understory.		
	E end on the S side of Lyons Rd		





Table 247. Flora Species List at Roadside Marker Site 065.

Native				
Species Name	Common Name	AUS	SA	
Acacia calamifolia	Wallowa			
Acacia hakeoides	Hakea Wattle			
Acacia notabilis	Notable Wattle			
Acacia nyssophylla	Spine Bush			
Acacia oswaldii	Umbrella Wattle			
Acacia sp.	Wattle			
Allocasuarina verticillata	Drooping Sheoak			
Atriplex semibaccata	Berry Saltbush			
Austrostipa sp.	Spear-grass			
Callitris sp.	Native Pine			
Cassytha sp.	Dodder-laurel			
Dianella sp.	Flax-lily			
Enchylaena tomentosa var.	Ruby Saltbush			
Eucalyptus gracilis	Yorrell			
Eucalyptus porosa	Mallee Box			
Eucalyptus socialis	Beaked Red Mallee			
Exocarpos aphyllus	Leafless Cherry			
Geijera linearifolia	Sheep Bush			
Melaleuca brevifolia	Short-leaf Honey-myrtle			
Melaleuca lanceolata	Dryland Tea-tree			
Nitraria billardierei	Nitre-bush			
Pittosporum angustifolium	Native Apricot			
Rhagodia candolleana ssp.	Sea-berry Saltbush			
Rhagodia spinescens	Spiny Saltbush			
Rytidosperma sp.	Wallaby-grass			
Salsola australis	Buckbush			
Santalum acuminatum	Quandong			
Sclerolaena diacantha	Grey Bindyi			
Senna artemisioides ssp. petiolaris				
Senna artemisioides ssp. X coriacea	Broad-leaf Desert Senna			
Templetonia retusa	Cockies Tongue			
Vittadinia sp.	New Holland Daisy			
Introduced				
Species Name	Common Name	Declared	WoNS	Environmental Weed
Asphodelus fistulosus	Onion Weed			Yes
Asteriscus spinosus	Golden Pallensis			Yes



Bromus diandrus	Great Brome			
Carrichtera annua	Ward's Weed			Yes
Introduced				
Species Name	Common Name	Declared	WoNS	Environmental Weed
Centaurea calcitrapa	Star Thistle			Yes
Cynara cardunculus ssp. flavescens	Artichoke Thistle	Yes		
Lycium ferocissimum	African Boxthorn	Yes	Yes	
Marrubium vulgare	Horehound	Yes		
Mesembryanthemum sp.	Iceplant			Yes
Oncosiphon suffruticosum	Calomba Daisy	Yes		
Reichardia tingitana	False Sowthistle			
Salvia verbenaca var.	Wild Sage			Yes
Schinus molle				Yes
Solanum elaeagnifolium	Silver-leaf Nightshade	Yes	Yes	
Sonchus oleraceus	Common Sow-thistle			Yes

Table 248. Scores for Bushland Assessment Vegetation Condition Components for Roadside Marker Site 065.

Attribute	Score
Native Plant Species Diversity	27/30
Weeds	4.5/15
Native Plant Life forms	16/20
Regenerating	6/12
Native: Exotic Understorey Biomass	3/5
Tree Canopy cover	2/5
Hollow-bearing trees	2/5
Fallen Timber/debris	1.5/5
Mature Tree	2/8
TOTAL VEGETATION CONDITION SCORE	38.83/80

#### 5.12.2 Roadside Marker Site 066 (Wild Horse Plains Rd)

Only one post was observed at Site 66, at the W end of Wild Horse Plains (Table 249). A total of 24 native species were identified, with five species naturally regenerating. A total of nine introduced species were observed with the presence of six environmental weeds, no declared weeds were observed (Table 250). No threatened species protected under the NPW Act and the EPBC Act were observed on Site. Overall, Site 66 received a VCS of 38.50 out of 80, reflecting vegetation of medium quality (Table 251).

Table 249. Summary of Roadside Marker Site 066.

Site	066
Road	Wild Horse Plains
Suburb	Long Plains
Date surveyed	15/12/2022
	Start: 138.3596 -34.3617 (W end on the S side of Wild Horse Plains Rd)
Longitude and Latitude	End: 138.3715 -34.3617 (E end on the S side of Wild Horse Plains Rd)
Posts present?	One (W end on the S side of Wild Horse Plains Rd)
Threats	Weed invasion



Vegetation Condition Score	Medium – 38.50
Adjacent land use	Cropping/agriculture
Vegetation association	Eucalyptus porosa, E. gracilis and E. socialis Mixed Mallee over Acacia oswaldii
	NA 5 – Mallee & Woodlands with Open Chenopod and Sclerophyll Shrub
Benchmark Community	understory.
	W end on the S side of Wild Horse Plains Rd
	E end on the S side of Wild Horse Plains Rd

Table 250. Flora Species List at Roadside Marker Site 066.

Native				
Species Name	Common Name	AUS	SA	
Acacia notabilis	Notable Wattle			
Acacia oswaldii	Umbrella Wattle			
Acacia pycnantha	Golden Wattle			
Alectryon oleifolius ssp.				
canescens	Bullock Bush			
Austrostipa sp.	Spear-grass			
Bursaria spinosa ssp.	Bursaria			
Callitris sp.	Native Pine			
Dianella revoluta var.				
Enchylaena sp.				
Eremophila longifolia	Weeping Emubush			
Eucalyptus gracilis	Yorrell			



Native				
Species Name	Common Name	AUS	SA	
Eucalyptus porosa	Mallee Box			
Eucalyptus socialis ssp.				
Exocarpos aphyllus	Leafless Cherry			
Lomandra multiflora ssp.	Many-flower Mat-rush			
Melaleuca brevifolia	Short-leaf Honey-myrtle			
Myoporum platycarpum ssp.	False Sandalwood			
Pittosporum angustifolium	Native Apricot			
Rhagodia parabolica	Mealy Saltbush			
Rytidosperma sp.	Wallaby-grass			
Sclerolaena diacantha	Grey Bindyi			
Senna artemisioides ssp.				
petiolaris				
Senna artemisioides ssp. X				
coriacea	Broad-leaf Desert Senna			
Vittadinia sp.	New Holland Daisy			
Introduced				
Species Name	Common Name	Declared	WoNS	Environmental Weed
Avena barbata	Bearded Oat			Yes
Brassica sp.				
Carrichtera annua	Ward's Weed			Yes
Centaurea calcitrapa	Star Thistle			Yes
Centaurea solstitialis	St Barnaby's Thistle			
Cynodon dactylon var.	Couch			Yes
Piptatherum miliaceum	Rice Millet			Yes
Reseda lutea	Cut-leaf Mignonette			
Sonchus oleraceus	Common Sow-thistle			Yes

Table 251. Scores for Bushland Assessment Vegetation Condition Components for Roadside Marker Site 066.

Attribute	Score
Native Plant Species Diversity	24/30
Weeds	11/15
Native Plant Life forms	16/20
Regenerating	3/12
Native: Exotic Understorey Biomass	3/5
Tree Canopy cover	2/5
Hollow-bearing trees	2/5
Fallen Timber/debris	1.5/5
Mature Tree	2/8
TOTAL VEGETATION CONDITION SCORE	38.50/80

#### 5.12.3 Roadside Marker Site 067 (Ridley Rd)

Both posts were observed at Site 67 (Table 252). A total of 20 native species were identified at Site 67, with three species naturally regenerating. A total of 13 introduced species were observed with the presence of eight environmental weeds and no declared (Table 253). No threatened species protected under the NPW Act and the EPBC Act were observed on Site. Overall, Site 67 received a VCS of 29.05 out of 80, reflecting vegetation of low to medium quality (Table 254).



Table 252. Summary of Roadside Marker Site 067.

Table 252. Summary of Road	dside Marker Site 067.		
Site	067		
Road	Ridley Rd		
Suburb	Long Plains		
Date surveyed	15/12/2022		
	Start: 138.3724 -34.364 (NE end on the S side of Ridley Rd)		
Longitude and Latitude	End: 138.3558 -34.3748 (SW end on the S side of Ridley Rd)		
Posts present?	Yes		
Threats	Weed invasion		
Vegetation Condition Score	Low to Medium – 29.05		
Adjacent land use	Cropping/agriculture		
	Eucalyptus odorata over Alectryon oleifolius ssp. canescens and Senna		
Vegetation association	artemisioides ssp. petiolaris		
	NA 5 – Mallee & Woodlands with Open Chenopod and Sclerophyll Shrub		
Benchmark Community	understory.  (NE end on the S side of Ridley Rd)		
	(SW end on the S side of Ridley Rd)		
Photo points			



Table 253. Flora Species List at Roadside Marker Site 067.

Native				
Species Name	Common Name	AUS	SA	
Acacia ligulata	Umbrella Bush			
Acacia oswaldii	Umbrella Wattle			
Acacia pycnantha	Golden Wattle			
Alectryon oleifolius ssp.				
canescens	Bullock Bush			
Austrostipa sp.	Spear-grass			
Bursaria spinosa ssp.	Bursaria			
Dianella revoluta var.				
Enchylaena tomentosa var.	Ruby Saltbush			
Eremophila longifolia	Weeping Emubush			
Eucalyptus dumosa	White Mallee			
Eucalyptus odorata	Peppermint Box			
Exocarpos aphyllus	Leafless Cherry			
Geijera linearifolia	Sheep Bush			
Lomandra multiflora ssp.	Many-flower Mat-rush			
Melaleuca brevifolia	Short-leaf Honey-myrtle			
Melaleuca lanceolata	Dryland Tea-tree			
Pittosporum angustifolium	Native Apricot			
Rhagodia parabolica	Mealy Saltbush			
Rytidosperma sp.	Wallaby-grass			
Senna artemisioides ssp. petiolaris	g.s.cc			
Introduced				
Species Name	Common Name	Declared	WoNS	Environmental Weed
Aira sp.	Hair-grass			
Asphodelus fistulosus	Onion Weed			Yes
Asteriscus spinosus	Golden Pallensis			Yes
Avena barbata	Bearded Oat			Yes
Brassica sp.				
Carrichtera annua	Ward's Weed			Yes
Centaurea calcitrapa	Star Thistle			Yes
Lolium sp.	Ryegrass			
Reseda lutea	Cut-leaf Mignonette			
Ricinus communis	Castor Oil Plant			Yes
Salvia verbenaca var.				Yes
Sisymbrium sp.	Wild Mustard			
Sonchus oleraceus	Common Sow-thistle			Yes

Table 254. Scores for Bushland Assessment Vegetation Condition Components for Roadside Marker Site 067.

Attribute	Score
Native Plant Species Diversity	21/30
Weeds	9/15
Native Plant Life forms	8/20
Regenerating	6/12
Native: Exotic Understorey Biomass	3/5
Tree Canopy cover	1/5
Hollow-bearing trees	2/5
Fallen Timber/debris	2.5/5
Mature Tree	2/8



Attribute	Score
TOTAL VEGETATION CONDITION SCORE	29.05/80

## 5.12.4 Roadside Marker Site 076 (Wild Horse Plains Rd)

Both posts were observed at Site 76 (Table 255). A total of 18 native species were identified, with four species naturally regenerating. A total of 13 introduced species were observed with the presence of 10 environmental weeds and no declared weeds (Table 256). No threatened species protected under the NPW Act and the EPBC Act were observed on Site. Overall, Site 76 received a VCS of 17.59 out of 80, reflecting vegetation of low quality (Table 257).

Table 255. Summary of Roadside Marker Site 076.

Table 255. Summary of Road	uside Marker Site 076.
Site	76
Road	Wild Horse Plains
Suburb	Long Plains
Date surveyed	15/12/2022
	Start: 138.3031 -34.3616 (W end on the S side of Wild Horse Plains Rd)
Longitude and Latitude	End:138.342 -34.3617 (E end on the S side of Wild Horse Plains Rd)
Posts present?	Yes
Threats	Weed invasion and old tree guards
Vegetation Condition Score	Low – 17.59
Adjacent land use	Cropping/agriculture
Vegetation association	Eucalyptus gracilis Mixed Mallee over Nitraria billardierei and chenopod shrubland
	NA 5 – Mallee & Woodlands with Open Chenopod and Sclerophyll Shrub
Benchmark Community	understory.
	W end on the S side of Wild Horse Plains Rd
	DCM 076
Photo points	E end on the S side of Wild Horse Plains Rd





Table 256. Flora Species List at Roadside Marker Site 076.

Native				
Species Name	Common Name	AUS	SA	
Acacia hakeoides	Hakea Wattle			
Acacia oswaldii	Umbrella Wattle			
Acacia sp.	Wattle			
Callitris gracilis	Southern Cypress Pine			
Dianella sp.	Flax-lily			
Enchylaena tomentosa var.	Ruby Saltbush			
Eremophila longifolia	Weeping Emubush			
Eucalyptus gracilis	Yorrell			
Eucalyptus porosa	Mallee Box			
Eucalyptus socialis	Beaked Red Mallee			
Geijera linearifolia	Sheep Bush			
Melaleuca brevifolia	Short-leaf Honey-myrtle			
Nitraria billardierei	Nitre-bush			
Rhagodia candolleana ssp.	Sea-berry Saltbush			
Rhagodia parabolica	Mealy Saltbush			
Rytidosperma sp.	Wallaby-grass			
Sclerolaena diacantha	Grey Bindyi			
Senna artemisioides ssp. petiolaris				
Introduced				
Species Name	Common Name	Declared	WoNS	Environmental Weed
Asphodelus fistulosus	Onion Weed			Yes
Avena barbata	Bearded Oat			Yes
Brassica sp.				
Bromus diandrus	Great Brome			
Cactaceae sp.				
Carrichtera annua	Ward's Weed			Yes
Carthamus lanatus	Saffron Thistle			Yes
Centaurea calcitrapa	Star Thistle			Yes
Mesembryanthemum sp.	Iceplant			Yes
Piptatherum miliaceum	Rice Millet			Yes
Reichardia tingitana	False Sowthistle			
Scabiosa atropurpurea	Pincushion			Yes
Solanum nigrum	Black Nightshade			Yes



Table 257. Scores for Bushland Assessment Vegetation Condition Components for Roadside Marker Site 076.

Attribute	Score
Native Plant Species Diversity	18/30
Weeds	9/15
Native Plant Life forms	8/20
Regenerating	3/12
Native: Exotic Understorey Biomass	1/5
Tree Canopy cover	1/5
Hollow-bearing trees	2/5
Fallen Timber/debris	1.5/5
Mature Tree	1/8
TOTAL VEGETATION CONDITION SCORE	17.59/80



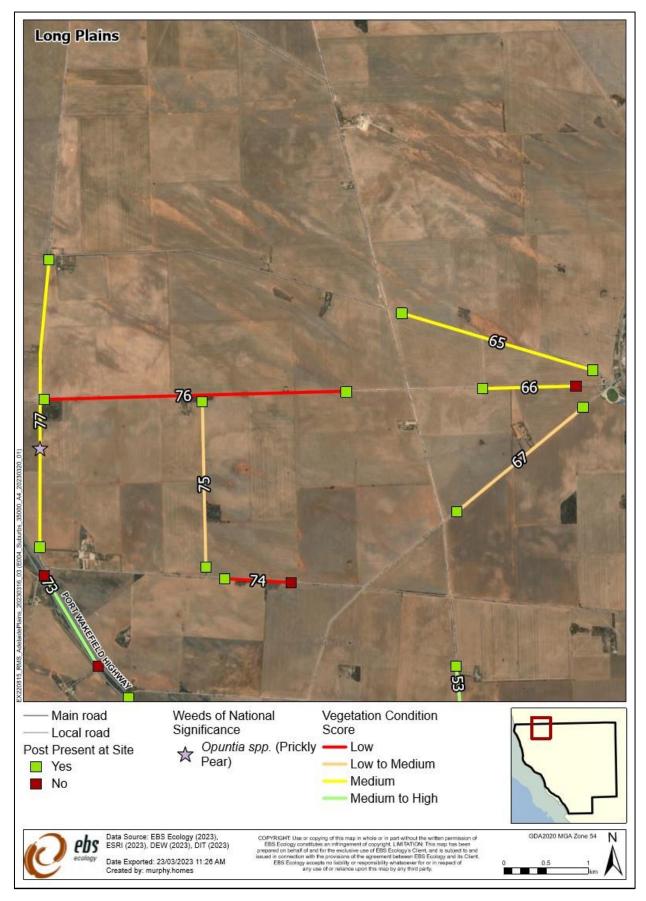


Figure 18. Roadside Marker Sites across Long Plains.



## 5.13 Wild Horse Plains

A total of three Sites were assessed across Wild Horse Plains (Figure 19).

## 5.13.1 Roadside Marker Site 075 (Sandy Brae Rd)

Both posts were observed at Site 75 (Table 258). A total of 20 native species were identified, with four species naturally regenerating. A total of 10 introduced species were observed with the presence of five environmental weeds, two declared weeds, one of which are listed as WoNS (Table 259). No threatened species protected under the NPW Act and the EPBC Act were observed on Site. Overall, Site 75 received a VCS of 34.09 out of 80, reflecting vegetation of low to medium quality (Table 260).

Table 258. Summary of Roadside Marker Site 075.

Table 236. Sullillary of Road	uside Marker Oile 073.
Site	075
Road	Sandy Brae Rd
Suburb	Wild Horse Plains
Date surveyed	15/12/2022
	Start: 138.3233 -34.38 (S end on the E side of Sandy Brae Rd)
Longitude and Latitude	End:138.3234 -34.3623 (N end on the E side of Sandy Brae Rd)
Posts present?	Yes
Threats	Weed invasion
Vegetation Condition Score	Low to Medium – 34.09
Adjacent land use	Cropping/agriculture
Vegetation association	Eucalyptus gracilis and E. socialis Mixed Mallee over chenopod shrubs
	NA 5 – Mallee & Woodlands with Open Chenopod and Sclerophyll Shrub
Benchmark Community	understory.
	S end on the E side of Sandy Brae Rd
Photo points	N end on the E side of Sandy Brae Rd





Table 259, Flora Species List at Roadside Marker Site 075.

Native				
Species Name	Common Name	AUS	SA	
Acacia hakeoides	Hakea Wattle			
Acacia oswaldii	Umbrella Wattle			
Acacia sclerophylla	Hard-leaf Wattle			
Acacia wilhelmiana	Dwarf Nealie			
Austrostipa sp.	Spear-grass			
Callitris gracilis	Southern Cypress Pine			
Enchylaena tomentosa var.	Ruby Saltbush			
Eremophila longifolia	Weeping Emubush			
Eucalyptus gracilis	Yorrell			
Eucalyptus porosa	Mallee Box			
Eucalyptus socialis	Beaked Red Mallee			
Exocarpos aphyllus	Leafless Cherry			
Melaleuca brevifolia	Short-leaf Honey-myrtle			
Pittosporum angustifolium	Native Apricot			
Rhagodia candolleana ssp.	Sea-berry Saltbush			
Rhagodia parabolica	Mealy Saltbush			
Salsola australis	Buckbush			
Santalum acuminatum	Quandong			
Senna artemisioides ssp. petiolaris				
Senna artemisioides ssp. X coriacea	Broad-leaf Desert Senna			
Introduced				
Species Name	Common Name	Declared	WoNS	Environmental Weed
Avena barbata	Bearded Oat			Yes
Brassica sp.				
Bromus diandrus	Great Brome			
Carrichtera annua	Ward's Weed			Yes
Lolium perenne	Perennial Ryegrass			Yes
Lycium ferocissimum	African Boxthorn	Yes	Yes	
Mesembryanthemum sp.	Iceplant			Yes
Oncosiphon suffruticosum	Calomba Daisy	Yes		
Reichardia tingitana	False Sowthistle			
Sonchus oleraceus	Common Sow-thistle			Yes



Table 260. Scores for Bushland Assessment Vegetation Condition Components for Roadside Marker Site 075.

Attribute	Score
Native Plant Species Diversity	24/30
Weeds	7/15
Native Plant Life forms	12/20
Regenerating	6/12
Native: Exotic Understorey Biomass	2/5
Tree Canopy cover	2/5
Hollow-bearing trees	3/5
Fallen Timber/debris	3.5/5
Mature Tree	2/8
TOTAL VEGETATION CONDITION SCORE	34.09/80

## 5.13.2 Roadside Marker Site 077 (Slant Rd)

Both posts were observed at Site 77 (Table 261). A total of 25 native species were identified, with nine species naturally regenerating. A total of 14 introduced species were observed with the presence of seven environmental weeds, three declared weeds, two of which are listed as WoNS. No threatened species protected under the NPW Act and the EPBC Act were observed on Site (Table 262). Overall, Site 77 received a VCS of 48.72 out of 80, reflecting vegetation of medium quality (Table 263).

Table 261. Summary of Roadside Marker Site 077.

Photo points	N end on the E side of Slant Rd
Benchmark Community	understory.
	NA 5 – Mallee & Woodlands with Open Chenopod and Sclerophyll Shrub
Vegetation association	chenopod shrubs
	Eucalyptus gracilis, E. porosa and E. socialis Mixed Mallee over Acacia spp.,
Adjacent land use	Cropping/agriculture
Vegetation Condition Score	Medium – 48.72
Threats	Garden escapes, pests (fox), rubbish and weed invasion
Posts present?	Yes
Longitude and Latitude	<b>End:</b> 138.302 -34.3774 (S end on the E side of Slant Rd)
	<b>Start:</b> 138.3042 -34.3467 (N end on the E side of Slant Rd)
Date surveyed	15/12/2022
Suburb	Wild Horse Plains
Road	Slant Rd
Site	077





S end on the E side of Slant Rd



Table 262. Flora Species List at Roadside Marker Site 077.

Native				
Species Name	Common Name	AUS	SA	
Acacia hakeoides	Hakea Wattle			
Acacia oswaldii	Umbrella Wattle			
Acacia sp.	Wattle			
Atriplex semibaccata	Berry Saltbush			
Austrostipa sp.	Spear-grass			
Callitris gracilis	Southern Cypress Pine			
Dianella sp.	Flax-lily			
Enchylaena tomentosa var.	Ruby Saltbush			
Eremophila longifolia	Weeping Emubush			
Eucalyptus gracilis	Yorrell			
Eucalyptus socialis	Beaked Red Mallee			
Eucalyptus odorata	Peppermint Box			
Eucalyptus porosa	Mallee Box			
Exocarpos aphyllus	Leafless Cherry			
Geijera linearifolia	Sheep Bush			
Melaleuca brevifolia	Short-leaf Honey-myrtle			
Melaleuca lanceolata	Dryland Tea-tree			
Nitraria billardierei	Nitre-bush			
Pittosporum angustifolium	Native Apricot			
Rhagodia parabolica	Mealy Saltbush			
Roepera aurantiaca ssp. aurantiaca	Shrubby Twinleaf			



Native				
Species Name	Common Name	AUS	SA	
Santalum acuminatum	Quandong			
Sclerolaena diacantha	Grey Bindyi			
Senna artemisioides ssp. X coriacea	Broad-leaf Desert Senna			
Vittadinia sp.	New Holland Daisy			
Introduced				
Species Name	Common Name	Declared	WoNS	Environmental Weed
Asphodelus fistulosus	Onion Weed			Yes
Avena barbata	Bearded Oat			Yes
Brassica sp.				
Carrichtera annua	Ward's Weed			Yes
Centaurea calcitrapa	Star Thistle			Yes
Centaurea solstitialis	St Barnaby's Thistle			
Lolium perenne	Perennial Ryegrass			Yes
Lycium ferocissimum	African Boxthorn	Yes	Yes	
Mesembryanthemum sp.	Iceplant			Yes
Oncosiphon suffruticosum	Calomba Daisy	Yes		
Reichardia tingitana	False Sowthistle			
Reseda lutea	Cut-leaf Mignonette			
Scabiosa atropurpurea	Pincushion			Yes
Solanum elaeagnifolium	Silver-leaf Nightshade	Yes	Yes	

Table 263. Scores for Bushland Assessment Vegetation Condition Components for Roadside Marker Site 077.

Attribute	Score
Native Plant Species Diversity	24/30
Weeds	8.5/15
Native Plant Life forms	16/20
Regenerating	9/12
Native: Exotic Understorey Biomass	3/5
Tree Canopy cover	3/5
Hollow-bearing trees	4/5
Fallen Timber/debris	3.5/5
Mature Tree	3/8
TOTAL VEGETATION CONDITION SCORE	48.72/80

#### 5.13.3 Roadside Marker Site 101 (Port Wakefield Rd)

One post was observed at the northern end of the Site, only a stake with no sign was observed at the southern end of Site 101 (Table 264). A total of 19 native species were identified, with four species naturally regenerating. A total of eight introduced species were observed with the presence of six environmental weeds, two declared weeds, one of which are listed as WoNS (Table 214Table 265). No threatened species protected under the NPW Act and the EPBC Act were observed on Site. Overall, Site 101 received a VCS of 45.18 out of 80, reflecting vegetation of medium quality (Table 266).

Table 264. Summary of Roadside Marker Site 101.

Site 101	
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	Adelaide Plains Council Roadside Marker Scheme Ecological Assessment
Road	Port Wakefield Rd
Suburb	Wild Horse Plains
Date surveyed	15/12/2022
	Start: 138.2936 -34.3638 (N end on the E side of Port Wakefield Rd)
Longitude and Latitude	End: 138.2979 -34.3735 (S end on the E side of Port Wakefield Rd)
Posts present?	One (N end on the E side of Port Wakefield Rd)
Threats	Garden escapes, weed invasion and roadside rubbish
Vegetation Condition Score	Medium – 45.18
Adjacent land use	Cropping/agriculture
Vegetation association	Eucalyptus brachycalyx and Eucalyptus gracilis mallee over Geijera linearifolia
Benchmark Community	NA 5 – Mallee & Woodlands with Open Chenopod and Sclerophyll Shrub understory.
	N end on the E side of Port Wakefield Rd



S end on the E side of Port Wakefield Rd



Photo points



Table 265. Flora Species List at Roadside Marker Site 101.

Native				
Species Name	Common Name	AUS	SA	
Acacia oswaldii	Umbrella Wattle			
Atriplex sp.	Saltbush			
Austrostipa sp.	Spear-grass			
Carpobrotus sp.	Pigface			
Chloris truncata	Windmill Grass			
Eucalyptus brachycalyx	Gilja			
Eucalyptus gracilis	Yorrell			
Exocarpos aphyllus	Leafless Cherry			
Geijera linearifolia	Sheep Bush			
Hakea sp.	Hakea/Needlewood			
Melaleuca brevifolia	Short-leaf Honey-myrtle			
Nitraria billardierei	Nitre-bush			
Pittosporum angustifolium	Native Apricot			
Rhagodia parabolica	Mealy Saltbush			
Rytidosperma sp.	Wallaby-grass			
Santalum acuminatum	Quandong			
Senna artemisioides ssp. petiolaris	-			
Tetragonia implexicoma	Bower Spinach			
Vittadinia sp.	New Holland Daisy			
Introduced				
Species Name	Common Name	Declared	WoNS	Environmental Weed
Aizoon pubescens	Coastal Galenia			Yes
Asphodelus fistulosus	Onion Weed			Yes
Asteriscus spinosus	Golden Pallensis			Yes
Avena barbata	Bearded Oat			Yes
Lycium ferocissimum	African Boxthorn	Yes	Yes	
Mesembryanthemum sp.	Iceplant			Yes
Pinus halepensis	Aleppo Pine	Yes		
Reichardia tingitana	False Sowthistle			
Scabiosa atropurpurea	Pincushion			Yes

Table 266. Scores for Bushland Assessment Vegetation Condition Components for Roadside Marker Site 101.

Attribute	Score
Native Plant Species Diversity	24/30
Weeds	6.5/15
Native Plant Life forms	12/20
Regenerating	6/12
Native: Exotic Understorey Biomass	4/5
Tree Canopy cover	4/5
Hollow-bearing trees	3/5
Fallen Timber/debris	4/5
Mature Tree	3/8
TOTAL VEGETATION CONDITION SCORE	45.18/80



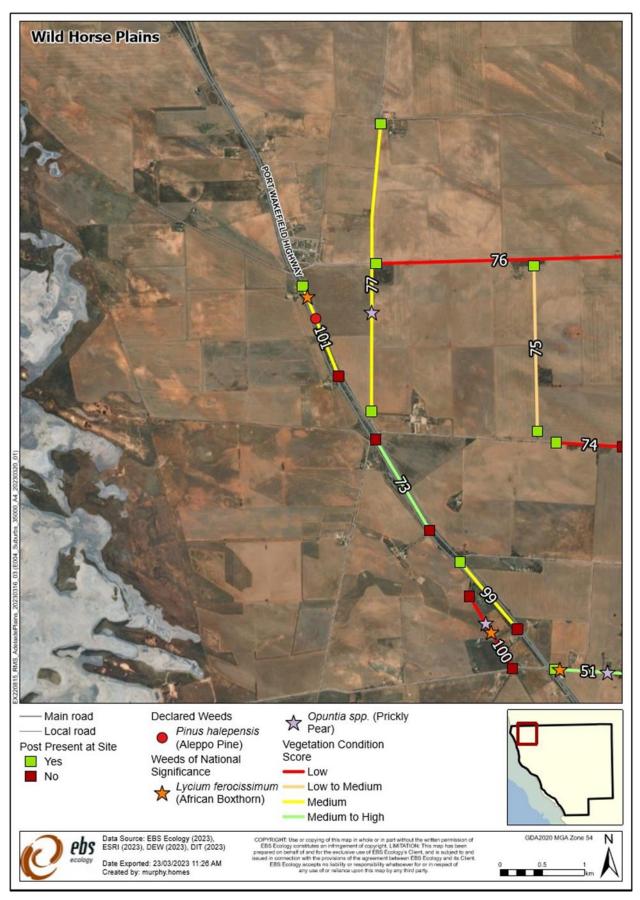


Figure 19. Roadside Marker Sites across Wild Horse Plains.



# 5.14 Webb Beach

Only one Site was surveyed at Webb Beach (Figure 20).

#### 5.14.1 Roadside Marker Site 078 (Webb Beach)

One post was observed on the S side of George Street (Table 267). A total of 14 native species were identified, with one species naturally regenerating. A total of nine introduced species were observed with the presence of two environmental weeds and no declared weeds (Table 268). No threatened species protected under the NPW Act and the EPBC Act were observed on Site. Overall, Site 78 received a VCS of 26.56 out of 80, reflecting vegetation of low to medium quality (Table 269).

Table 267. Summary of Roadside Marker Site 078.







Table 268. Flora Species List at Roadside Marker Site 078

Native				
Species Name	Common Name	AUS	SA	
Acacia ligulata	Umbrella Bush			
Alyxia buxifolia	Sea Box			
Atriplex cinerea	Coast Saltbush			
Callitris gracilis	Southern Cypress Pine			
Carpobrotus rossii	Native Pigface			
Dianella sp.	Flax-lily			
Enchylaena tomentosa var.	Ruby Saltbush			
Melaleuca brevifolia	Short-leaf Honey-myrtle			
Myoporum insulare	Common Boobialla			
Nitraria billardierei	Nitre-bush			
Olearia axillaris	Coast Daisy-bush			
Pittosporum angustifolium	Native Apricot			
Spinifex hirsutus	Rolling Spinifex			
Tetragonia sp.	False Spinach			
Introduced				
Species Name	Common Name	Declared	WoNS	Environmental Weed
Agave sp.				
Avena barbata	Bearded Oat			Yes
Cakile maritima ssp. maritima	Two-horned Sea Rocket			
Eucalyptus sp. (WA variety)				
Euphorbia terracina	False Caper			
Lagunaria patersonii	Pyramid Tree			
Lagurus ovatus	Hare's Tail Grass			
Matthiola sp.	Stock			
Piptatherum miliaceum	Rice Millet			Yes
Portulacaria afra	Dwarf Jade Plant			

Table 269. Scores for Bushland Assessment Vegetation Condition Components for Roadside Marker Site 078.

Attribute	Score
Native Plant Species Diversity	15/30
Weeds	3/15
Native Plant Life forms	16/20
Regenerating	4.5/12



# Adelaide Plains Council Roadside Marker Scheme Ecological Assessment

Attribute	Score
Native: Exotic Understorey Biomass	4/5
Tree Canopy cover	0/5
Hollow-bearing trees	0/5
Fallen Timber/debris	0/5
Mature Tree	2/8
TOTAL VEGETATION CONDITION SCORE	26.56/80





Figure 20. Roadside Marker Sites across Webb Beach.



## 5.15 Parham

A total of two Sites were observed across Parham (Figure 21).

## 5.15.1 Roadside Marker Site 079 (The Esplanade)

No posts were observed at Site 79 (Table 270). A total of 23 native species were identified, with four species naturally regenerating. A total of 10 introduced species were observed with the presence of four environmental weeds and one declared weeds (Table 271). Overall, Site 79 received a VCS of 62.79 out of 80, reflecting vegetation of Medium to High quality (Table 272). A breeding pair of the nationally threatened State Rare Elegant Parrot was observed foraging within this Site.

Table 270. Summary of Roadside Marker Site 079.

Site	079
Road	The Esplanade
Suburb	Parham
Date surveyed	10/1/2023
	Start: 138.2552 -34.4244 (N end on the W side of the Esplanade)
Longitude and Latitude	<b>End:</b> 138.2577 -34.4309 (S end on the W side of the Esplanade)
Posts present?	No
Threats	Tree guards and weed invasion
Vegetation Condition Score	Medium to High – 62.79
Adjacent land use	Residential and the coastline
Vegetation association	Alyxia buxifolia and Myoporum insulare Shrubland
Benchmark Community	NA 9.1 Shrubs and Low Shrublands on coastal dunes and shell-grit ridges
	N end on the W side of the Esplanade
Photo points	S end on the W side of the Esplanade





Table 271, Flora Species List at Roadside Marker Site 079.

Native				
Species Name	Common Name	AUS	SA	
Acacia cyclops	Western Coastal Wattle			
Alyxia buxifolia	Sea Box			
Atriplex paludosa ssp.	Marsh Saltbush			
Atriplex sp.	Saltbush			
Austrostipa sp.	Spear-grass			
Callitris gracilis	Southern Cypress Pine			
Carpobrotus rossii	Native Pigface			
Dianella sp.	Flax-lily			
Exocarpos aphyllus	Leafless Cherry			
Geijera linearifolia	Sheep Bush			
Melaleuca brevifolia	Short-leaf Honey-myrtle			
Melaleuca lanceolata	Dryland Tea-tree			
Myoporum insulare	Common Boobialla			
Nitraria billardierei	Nitre-bush			
Olearia axillaris	Coast Daisy-bush			
Rhagodia candolleana ssp.	Sea-berry Saltbush			
Rytidosperma sp.	Wallaby-grass			
Salicornia blackiana	Thick-head Samphire			
Sclerolaena diacantha	Grey Bindyi			
Suaeda australis	Austral Seablite			
Tecticornia sp.	Samphire			
Tecticornia sp.	Samphire			
Threlkeldia diffusa	Coast Bonefruit			
Introduced				
Species Name	Common Name	Declared	WoNS	Environmental Weed
Asphodelus fistulosus	Onion Weed			Yes
Avena barbata	Bearded Oat			Yes
Cakile sp.	Sea Rocket			
Gazania linearis	Gazania	Yes		
Lagurus ovatus	Hare's Tail Grass			Yes
Matthiola sp.	Stock			
Mesembryanthemum sp.	Iceplant			Yes
Plantago coronopus ssp.	Bucks-horn Plantain			
Reichardia tingitana	False Sowthistle			
Reseda sp.	Mignonette			



Table 272. Scores for Bushland Assessment Vegetation Condition Components for Roadside Marker Site 079.

Attribute	Score	
Native Plant Species Diversity	30/30	
Weeds	3/15	
Native Plant Life forms	20/20	
Regenerating	9/12	
Native: Exotic Understorey Biomass	4/5	
Tree Canopy cover	NA	
Hollow-bearing trees	NA	
Fallen Timber/debris	NA	
Mature Tree	NA	
TOTAL VEGETATION CONDITION SCORE	62.79/80	

## 5.15.2 Roadside Marker Site 080 (Tickera Rd)

No posts were observed at Site 80. However, two stakes with no sign were observed at each end of the Site (Table 273). A total of 19 native species were identified, with three species naturally regenerating. A total of four introduced species were observed with the presence of one environmental weed (Table 274). No threatened species protected under the NPW Act and the EPBC Act were observed on Site. Overall, Site 80 received a VCS of 43.99 out of 80, reflecting vegetation of medium quality (Table 275).

Table 273. Summary of Roadside Marker Site 080.

Site	080
Road	Tickera Rd
Suburb	Parham
Date surveyed	10/1/2023
	<b>Start:</b> 138.2615 -34.4245 (NW end of Tickera Rd)
Longitude and Latitude	End:138.2601 -34.4271 (SW end of Tickera Rd)
Posts present?	No
Threats	Rubbish and weed invasion
Vegetation Condition Score	Medium – 43.99
Adjacent land use	Residential and native vegetation
Vegetation association	Melaleuca lanceolata Low Woodland
Benchmark Community	NA 9.2 Low woodlands on coastal dunes and shell-grit ridges
Photo points	NW end of Tickera Rd





SW end of Tickera Rd



Table 274. Flora Species List at Roadside Marker Site 080.

Native				
Species Name	Common Name	AUS	SA	
Acacia ligulata	Umbrella Bush			
Alyxia buxifolia	Sea Box			
Atriplex paludosa ssp.	Marsh Saltbush			
Austrostipa sp.	Spear-grass			
Beyeria lechenaultii	Pale Turpentine Bush			
Carpobrotus rossii	Native Pigface			
Dianella sp.	Flax-lily			
Exocarpos aphyllus	Leafless Cherry			
Geijera linearifolia	Sheep Bush			
Maireana erioclada	Rosy Bluebush			
Melaleuca lanceolata	Dryland Tea-tree			
Nitraria billardierei	Nitre-bush			
Pittosporum angustifolium	Native Apricot			
Rytidosperma sp.	Wallaby-grass			



Native				
Species Name	Common Name	AUS	SA	
Santalum acuminatum	Quandong			
Sclerolaena diacantha	Grey Bindyi			
Senna artemisioides ssp. petiolaris				
Tetragonia sp.	False Spinach			
Threlkeldia diffusa	Coast Bonefruit			
Introduced				
Species Name	Common Name	Declared	WoNS	Environmental Weed
Avena barbata	Bearded Oat			Yes
Lagurus ovatus	Hare's Tail Grass			
Limonium sp.	Sea-lavender			
Pinus sp.	Pine			

Table 275. Scores for Bushland Assessment Vegetation Condition Components for Roadside Marker Site 080.

Attribute	Score
Native Plant Species Diversity	22/30
Weeds	6/15
Native Plant Life forms	18/20
Regenerating	6/12
Native: Exotic Understorey Biomass	4/5
Tree Canopy cover	4/5
Hollow-bearing trees	3/8
Fallen Timber/debris	1/5
Mature Tree	3/8
TOTAL VEGETATION CONDITION SCORE	43.99/80





Figure 21. Roadside Marker Sites across Parham.



# 5.16 Lower Light

A total of four Sites were surveyed across Lower Light (Figure 22).

## 5.16.1 Roadside Marker Site 084 (Port Prime Rd)

An on-ground assessment was undertaken at Site 84 and both posts were observed (Table 276). A total of 27 native species were identified, with seven species naturally regenerating. A total of 10 introduced species were observed with the presence of five environmental weeds and one declared weed, which is also listed as WoNS (Table 277). The State Rare *Myoporum parviflorum* (Creeping Boobialla) was observed scattered throughout this Site. Overall, Site 84 received a VCS of 29.87 out of 80, reflecting vegetation of low to medium quality (Table 278).

Table 276. Summary of Roadside Marker Site 084.

Table 276. Summary of Road	uside Marker Site 004.
Site	084
Road	Port Prime Rd
Suburb	Lower Light
Date surveyed	10/1/2023
	<b>Start</b> : 138.3432 -34.4928 (W end on the S side of Port Prime Rd)
Longitude and Latitude	End: 138.3475 -34.4902 (E end on the S side of Port Prime Rd)
Posts present?	Yes
Threats	Illegal dumping, rubbish and weed invasion
Vegetation Condition Score	Low to Medium – 29.87
Adjacent land use	Native vegetation
Vegetation association	Acacia spp. and Santalum acuminatum shrubland
	NA 5 – Mallee & Woodlands with Open Chenopod and Sclerophyll Shrub
Benchmark Community	understory.
	W end on the S side of Port Prime Rd
Photo points	E end on the S side of Port Prime Rd





Table 277. Flora Species List at Roadside Marker Site 084.

Native				
Species Name	Common Name	AUS	SA	
Acacia hakeoides	Hakea Wattle			
Acacia ligulata	Umbrella Bush			
Acacia wilhelmiana	Dwarf Nealie			
Atriplex cinerea	Coast Saltbush			
Atriplex paludosa ssp.	Marsh Saltbush			
Austrostipa sp.	Spear-grass			
Dianella revoluta var. revoluta	Black-anther Flax-lily			
Disphyma crassifolium ssp. clavellatum	Round-leaf Pigface			
Enchylaena tomentosa var.	Ruby Saltbush			
Eucalyptus dumosa	White Mallee			
Exocarpos aphyllus	Leafless Cherry			
Geijera linearifolia	Sheep Bush			
Lawrencia squamata	Thorny Lawrencia			
Melaleuca lanceolata	Dryland Tea-tree			
Myoporum insulare	Common Boobialla			
Myoporum parvifolium	Creeping Boobialla			R
Nitraria billardierei	Nitre-bush			
Rhagodia candolleana ssp.	Sea-berry Saltbush			
Rytidosperma sp.	Wallaby-grass			
Santalum acuminatum	Quandong			
Sarcozona sp.				
Scaevola spinescens	Spiny Fanflower			
Sclerolaena diacantha	Grey Bindyi			
Senecio sp.	Groundsel			
Senna artemisioides ssp. X				
coriacea	Broad-leaf Desert Senna			
Tetragonia sp.	False Spinach			
Threlkeldia diffusa	Coast Bonefruit			
Vittadinia sp.	New Holland Daisy			
Introduced				
Species Name	Common Name	Declared	WoNS	Environmental Weed
Asphodelus fistulosus	Onion Weed			Yes
Carrichtera annua	Ward's Weed			Yes
Conyza bonariensis	Flax-leaf Fleabane			Yes
Lagurus ovatus	Hare's Tail Grass			
Limonium sp.				
Lycium ferocissimum	African Boxthorn	Yes	Yes	



Plantago coronopus ssp.	Bucks-horn Plantain		
Plantago lanceolata var.	Ribwort		Yes
Reichardia tingitana	False Sowthistle		
Scabiosa atropurpurea	Pincushion		Yes

Table 278. Scores for Bushland Assessment Vegetation Condition Components for Roadside Marker Site 084.

Attribute	Score
Native Plant Species Diversity	24/30
Weeds	8/15
Native Plant Life forms	8/20
Regenerating	6/12
Native: Exotic Understorey Biomass	4/5
Tree Canopy cover	1/5
Hollow-bearing trees	0/5
Fallen Timber/debris	0.5/5
Mature Tree	1/8
TOTAL VEGETATION CONDITION SCORE	29.87/80

#### 5.16.2 Roadside Marker Site 085 (North Terrace and Beach Terrace)

One post was observed at the start of Site 85 (Table 279). A total of 24 native species were identified at Site 85, with four species naturally regenerating. A total of three introduced species were observed with the presence of one environmental weeds, no declared weeds were observed on Site (Table 280). No threatened species protected under the NPW Act and the EPBC Act were observed on Site. Site 85 had two different benchmark communities, NA 9.1 and NA 10.2 therefore, this vegetation was assessed separately, and the scores were <u>not</u> averaged. Site 85a (*Olearia axillaris* shrubland) received a VCS of 56.96 out of 80, reflecting vegetation of medium quality. Site 85b (*Salicornia spp.* and *Tecticornia ssp.* shrubland) received a VCS of 71.33 out of 80, reflecting vegetation of high quality (Table 281).

Table 279. Summary of Roadside Marker Site 085.

Site	085
Road	North Terrace and Beach Terrace
Suburb	Lower Light
Date surveyed	10/1/2023
	Start: 138.3272 -34.5069 (E end on the N side of Port Prime Rd)
Longitude and Latitude	End: 138.3124 -34.5102 (W end on the S side of Port Prime Rd)
Posts present?	One (E end on the N side of Port Prime Rd)
Threats	Weed invasion
Vegetation Condition	85a: Medium – 56.96
Score	85b: High – 71.33
Adjacent land use	Native vegetation
Vegetation association	85a: Olearia axillaris shrubland



85b: Salicornia spp. and Tecticornia ssp. shrubland

NA 9.1 Shrubs and Low Shrublands on coastal dunes and shell-grit ridges

NA 10.2 – Samphire low shrublands with infrequent inundation/Lower salinity

## E end on the N side of Port Prime Rd



W end on the S side of Port Prime Rd



VA 85b samphire shrubland



**Photo points** 



Table 280. Flora Species List at Roadside Marker Site 085.

Native				
Species Name	Common Name	AUS	SA	
Alyxia buxifolia	Sea Box			
Amyema melaleucae	Tea-tree Mistletoe			
Atriplex paludosa ssp. cordata	Marsh Saltbush			
Austrostipa sp.	Spear-grass			
Carpobrotus rossii	Native Pigface			
Dianella sp.	Flax-lily			
Exocarpos aphyllus	Leafless Cherry			
Frankenia pauciflora var.	Southern Sea-heath			
Geijera linearifolia	Sheep Bush			
Lawrencia squamata				
Maireana erioclada	Rosy Bluebush			
Melaleuca lanceolata	Dryland Tea-tree			
Nitraria billardierei	Nitre-bush			
Olearia axillaris	Coast Daisy-bush			
Pittosporum angustifolium	Native Apricot			
Rhagodia candolleana ssp.	Sea-berry Saltbush			
Salicornia blackiana	Thick-head Samphire			
Salicornia sp.	Samphire			
Tecticornia arbuscula	Shrubby Samphire			
Tecticornia pergranulata ssp.	Black-seed Samphire			
Tecticornia sp.	Samphire			
Tetragonia sp.	False Spinach			
Threlkeldia diffusa	Coast Bonefruit			
Vittadinia cuneata var.	Fuzzy New Holland Daisy			
Introduced				
Species Name	Common Name	Declared	WoNS	Environmental Weed
Lagurus ovatus	Hare's Tail Grass			
Avena barbata	Bearded Oat			Yes
Limonium sp.	Sea-lavender			

Table 281. Scores for Bushland Assessment Vegetation Condition Components for Roadside Marker Site 085.

Attribute	85a	85b
Native Plant Species Diversity	27/30	30/30
Weeds	12/15	13/15
Native Plant Life forms	16/20	20/20
Regenerating	6/12	9/12
Native: Exotic Understorey Biomass	4/5	5/5
Tree Canopy cover	NA	NA
Hollow-bearing trees	NA	NA
Fallen Timber/debris	NA	NA
Mature Tree	NA	NA
TOTAL VEGETATION CONDITION SCORE	56.96/80	71.33/80



#### 5.16.3 Roadside Marker Site 086 (Thompson Beach Rd)

One post was observed at the start of Site 86 (Table 282). A total of 17 native species were identified, with one species naturally regenerating. A total of eight introduced species were observed with the presence of three environmental weeds, two declared weeds, one of which is listed as a WoNS (Table 283). No threatened species protected under the NPW Act and the EPBC Act were observed on Site. Site 86 had two different benchmark communities, NA 5 Mallee & Woodlands with Open Chenopod and Sclerophyll Shrub understory and NA 10.1 Samphire low shrublands with infrequent inundation/Lower salinity. Therefore, this vegetation was assessed separately, and the scores were not averaged. Site 86a (Senna artemisioides ssp. X coriacea shrubland shrubland) received a VCS of 16.45 out of 80, reflecting vegetation of low quality. Site 86b (Salicornia spp. and Tecticornia ssp. shrubland) received a VCS of 53.48 out of 80, reflecting vegetation of medium quality (Table 284).

Table 282. Summary of Roadside Marker Site 086.

Site	086
Road	Thompson Beach Rd
Suburb	Lower Light
Date surveyed	9/1/2023
	Start: 138.3462 -34.4874 (E end on the S side of Thompson Beach Rd)
Longitude and Latitude	<b>End:</b> 138.3276 -34.4883 (W end of Thompson Beach Rd)
Posts present?	One (E end on the S side of Thompson Beach Rd)
	Illegal dumping (building supplies), rubbish, weed invasion, pest (rabbit), dieback,
Threats	burned cars
Vegetation Condition	86a: Low - 16.45
Score	86b: Medium – 53.48
Adjacent land use	Native vegetation and clay pans
	86a: Senna artemisioides ssp. X coriacea shrubland
Vegetation association	86b: Salicornia spp. and Tecticornia ssp. shrubland
	NA 5 – Mallee & Woodlands with Open Chenopod and Sclerophyll Shrub understory.
Benchmark Community	NA 10.2 – Samphire low shrublands with infrequent inundation/Lower salinity
Photo points	E end on the S side of Thompson Beach Rd





W end of Thompson Beach Rd



Table 283. Flora Species List at Roadside Marker Site 086.

Native				
Species Name	Common Name	AUS	SA	
Acacia hakeoides	Hakea Wattle			
Atriplex paludosa ssp.	Marsh Saltbush			
Austrostipa sp.	Spear-grass			
Disphyma crassifolium ssp. clavellatum	Round-leaf Pigface			
Enchylaena tomentosa var.	Ruby Saltbush			
Eucalyptus dumosa	White Mallee			
Exocarpos aphyllus	Leafless Cherry			
Geijera linearifolia	Sheep Bush			
Maireana brevifolia	Short-leaf Bluebush			
Melaleuca lanceolata	Dryland Tea-tree			
Nitraria billardierei	Nitre-bush			
Rytidosperma sp.	Wallaby-grass			
Salicornia blackiana	Thick-head Samphire			
Scaevola spinescens	Spiny Fanflower			
Senna artemisioides ssp. X				
coriacea	Broad-leaf Desert Senna			
Tecticornia indica ssp.	Brown-head Samphire			
Threlkeldia diffusa	Coast Bonefruit			
Vittadinia blackii	Narrow-leaf New Holland Daisy			
Introduced				



Species Name	Common Name	Declared	WoNS	Environmental Weed
Aloe sp.	Aloe			
Asphodelus fistulosus	Onion Weed			Yes
Asteriscus spinosus	Golden Pallensis			Yes
Avena barbata	Bearded Oat			Yes
Limonium sp.	Sea-lavender			
Lycium ferocissimum	African Boxthorn	Yes	Yes	
Oncosiphon suffruticosum	Calomba Daisy	Yes		
Reichardia tingitana	False Sowthistle			

WoNS = Weeds of National Significance (LSA Act). AUS= National threatened species under the EPBC Act; SA= State threatened species under the NPW Act; RA= Rare, EN=Endangered, VU=Vulnerable, CE= Critically Endangered.

Table 284. Scores for Bushland Assessment Vegetation Condition Components for Roadside Marker Site 086.

Attribute	86a	86b
Native Plant Species Diversity	15/30	24/30
Weeds	6.5/15	12/15
Native Plant Life forms	8/20	16/20
Regenerating	3/12	6/12
Native: Exotic Understorey Biomass	2/5	4/5
Tree Canopy cover	1/5	NA
Hollow-bearing trees	0/5	NA
Fallen Timber/debris	1/5	NA
Mature Tree	1/8	NA
TOTAL VEGETATION CONDITION SCORE	16.45/80	53.48/80

#### 5.16.4 Roadside Marker Site 093 (Off Light Beach Rd)

No posts were observed at Site 93 (Table 285). A total of 24 native species were identified, with seven species naturally regenerating. A total of nine introduced species were observed with the presence of five environmental weeds and no declared weeds. No threatened species protected under the NPW Act and the EPBC Act were observed on Site. Site 93 had two different benchmark communities, NA 9.2 Low Woodlands on Coastal Dunes and Shell Grit Ridges and NA 10.1 Samphire low shrublands with infrequent inundation/Lower salinity. Therefore, this vegetation was assessed separately, and the scores were not averaged. Site 93a (*Myoporum insulare* and *Olearia axilaris* Shrubland +/- *Tecticornia spp.*) received a VCS of 39.27 out of 80, reflecting vegetation of medium quality. Site 93b (*Salicornia spp.* and *Tecticornia ssp.* shrubland) received a VCS of 52.63 out of 80, reflecting vegetation of medium quality (Table 287).

Table 285. Summary of Roadside Marker Site 093.

Site	093
Road	Off Light Beach Rd
Suburb	Lower Light
Date surveyed	13/1/2023
	Start: 138.3472 -34.5442 (S end of Light Beach Rd)
Longitude and Latitude	<b>End:</b> 138.3437 -34.5359
Posts present?	No
Threats	Old stakes and weed invasion



Vegetation Condition	93a: Medium – 39.27
Score	93b: Medium to High - 52.63
Adjacent land use	Native vegetation and clay pans
	93a: Myoporum insulare and Olearia axilaris Shrubland +/- Tecticornia spp.
Vegetation association	93b: Sarcornia spp. and Tectocornia spp. Shrubland
	NA 9.2 – Low Woodlands on Coastal Dunes and Shell Grit Ridges
Benchmark Community	NA 10.2 – Samphire low shrublands with infrequent inundation/Lower salinity
	E end on the S side of Thompson Beach Rd



W end of Thompson Beach Rd



Photo points

Table 286. Flora Species List at Roadside Marker Site 093.

Native				
Species Name	Common Name	AUS	SA	
Acacia ligulata	Umbrella Bush			
Adriana quadripartita	Coast Bitter-bush			
Alyxia buxifolia	Sea Box			
Atriplex paludosa ssp.	Marsh Saltbush			
Austrostipa elegantissima	Feather Spear-grass			
Austrostipa sp.	Spear-grass			
Callitris gracilis	Southern Cypress Pine			
Dianella sp.	Flax-lily			



Native				
Species Name	Common Name	AUS	SA	
Disphyma crassifolium ssp.	D 11 (B) (			
clavellatum	Round-leaf Pigface			
Distichlis distichophylla	Emu-grass			
Enchylaena tomentosa var.	Ruby Saltbush			
Exocarpos aphyllus	Leafless Cherry			
Frankenia pauciflora var.	Southern Sea-heath			
Lawrencia spicata	Salt Lawrencia			
Myoporum insulare	Common Boobialla			
Nitraria billardierei	Nitre-bush			
Olearia axillaris	Coast Daisy-bush			
Pittosporum angustifolium	Native Apricot			
Rhagodia crassifolia	Fleshy Saltbush			
Salicornia quinqueflora ssp.				
quinqueflora	Beaded Samphire			
Suaeda australis	Austral Seablite			
Tecticornia sp.	Samphire			
Tetragonia implexicoma	Bower Spinach			
Threlkeldia diffusa	Coast Bonefruit			
Introduced				
Species Name	Common Name	Declared	WoNS	Environmental Weed
Aizoon pubescens	Coastal Galenia			Yes
Asphodelus fistulosus	Onion Weed			Yes
Cakile maritima ssp.				
maritima	Two-horned Sea Rocket			
Euphorbia terracina	False Caper			Yes
Lagurus ovatus	Hare's Tail Grass			
Limonium companyonis	Sea-lavender			Yes
Mesembryanthemum sp.	Iceplant			Yes
Reichardia tingitana	False Sowthistle			
Senecio sp.	Groundsel			

Table 287. Scores for Bushland Assessment Vegetation Condition Components for Roadside Marker Site 093.

Attribute	93a	93b
Native Plant Species Diversity	26/30	26/30
Weeds	4/15	3/15
Native Plant Life forms	16/20	16/20
Regenerating	6/12	6/12
Native: Exotic Understorey Biomass	4/5	5/5
Tree Canopy cover	2/5	NA
Hollow-bearing trees	1/5	NA
Fallen Timber/debris	0.5/5	NA
Mature Tree	2/8	NA
TOTAL VEGETATION CONDITION SCORE	39.27/80	52.63/80



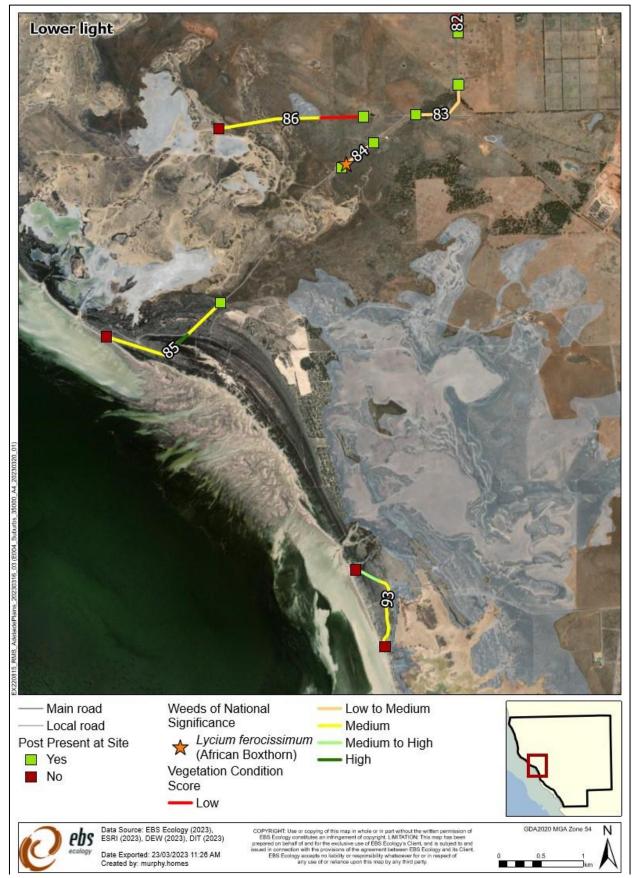


Figure 22. Roadside Marker Sites across Lower Light.



# 5.17 Thompson Beach

One Site was assessed at Thompson Beach (Figure 23).

## 5.17.1 Roadside Marker Site 087 (The Esplanade and Thompson Beach Rd)

One post was observed on the southern side of Thompson Beach Rd (Table 288). A total of 22 native species were identified, with five species naturally regenerating. A total of seven introduced species were observed with the presence of four environmental weeds and one declared weed (Table 289). No threatened species protected under the NPW Act and the EPBC Act were observed on Site. Overall, Site 87 received a VCS of 63.20 out of 80, reflecting vegetation of high quality (Table 290).

Table 288. Summary of Roadside Marker Site 087.

Table 288. Summary of Road	dside Marker Site 087.	
Site	087	
Road	The Esplanade and Thompson Beach Rd	
Suburb	Thompson Beach	
Date surveyed	10/1/2023	
	Start: 138.2716 -34.4825 (N end of The Esplanade)	
Longitude and Latitude	End: 138.295 -34.4937 (E end on the S side of Thompson Beach Rd)	
Posts present?	One (E end of Thompson Beach Rd)	
Threats	Old tree guards and weed invasion	
Vegetation Condition Score	Medium to High – 63.20	
Adjacent land use	Cropping/agriculture	
Vegetation association	Myoporum insulare and Alyxia buxifolia Tall shrubland	
Benchmark Community	NA 9.1 – Shrublands and Low Shrublands on Coastal Dunes and Shell grit Ridges	
	N end of The Esplanade	
Photo points	E end of Thompson Beach Rd	





Table 289. Flora Species List at Roadside Marker Site 087.

Native				
Species Name	Common Name	AUS	SA	
Acacia ligulata	Umbrella Bush			
Alyxia buxifolia	Sea Box			
Atriplex sp.	Saltbush			
Austrostipa sp.	Spear-grass			
Callitris gracilis	Southern Cypress Pine			
Carpobrotus rossii	Native Pigface			
Clematis microphylla	Old Man's Beard			
Dianella brevicaulis	Short-stem Flax-lily			
Dodonaea viscosa ssp.	Sticky Hop-bush			
Enchylaena tomentosa var.	Ruby Saltbush			
Exocarpos aphyllus	Leafless Cherry			
Geijera linearifolia	Sheep Bush			
Melaleuca lanceolata	Dryland Tea-tree			
Muehlenbeckia adpressa	Climbing Lignum			
Myoporum insulare	Common Boobialla			
Nitraria billardierei	Nitre-bush			
Olearia axillaris	Coast Daisy-bush			
Pittosporum angustifolium	Native Apricot			
Rytidosperma sp.	Wallaby-grass			
Santalum acuminatum	Quandong			
Tecticornia sp.	Samphire			
Threlkeldia diffusa	Coast Bonefruit			
Introduced				
Species Name	Common Name	Declared	WoNS	Environmental Weed
Asphodelus fistulosus	Onion Weed			Yes
Brassica sp.				
Gazania linearis	Gazania			Yes
Lagurus ovatus	Hare's Tail Grass			Yes
Mesembryanthemum sp.	Iceplant			Yes
Oncosiphon suffruticosum	Calomba Daisy	Yes		
Reichardia tingitana	False Sowthistle			

Table 290. Scores for Bushland Assessment Vegetation Condition Components for Roadside Marker Site 087.

Attribute	Score
Native Plant Species Diversity	28/30



## Adelaide Plains Council Roadside Marker Scheme Ecological Assessment

Attribute	Score
Weeds	4/15
Native Plant Life forms	20/20
Regenerating	10.5/12
Native: Exotic Understorey Biomass	4/5
Tree Canopy cover	NA
Hollow-bearing trees	NA
Fallen Timber/debris	NA
Mature Tree	NA
TOTAL VEGETATION CONDITION SCORE	63.20/80



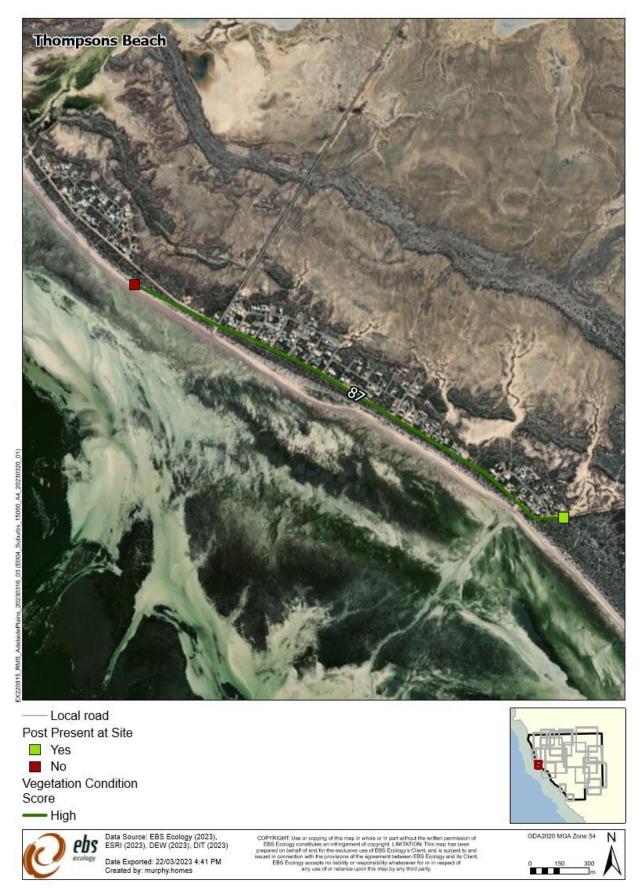


Figure 23. Roadside Marker Sites across Thompson Beach.



#### 5.18 Port Gawler

Two Sites were surveyed across Port Gawler (Figure 24).

#### 5.18.1 Roadside Marker Site 088 (Recreation Drive)

Both posts were observed at Site 88 (Table 291). A total of 19 native species were identified, with two species naturally regenerating. A total of 10 introduced species were observed with the presence of six environmental weeds and one declared weed. No threatened species protected under the NPW Act and the EPBC Act were observed on Site. Overall, Site 88 received a VCS of 49.37 out of 80, reflecting vegetation of medium quality (Table 293).

Table 291. Summary of Roadside Marker Site 088.

Site	088
Road	Recreation Drive
Suburb	Port Gawler
Date surveyed	13/1/2023
,	Start: 138.4483 -34.6498 (SE end of Recreation Drive on the S side)
Longitude and Latitude	End: 138.4447 -34.6486 (NW end of Recreation Drive on the S side)
Posts present?	Yes
Threats	Weed invasion
Vegetation Condition Score	Medium – 49.37
Adjacent land use	Cropping/agriculture
Vegetation association	Olearia axillaris shrubland over Nitraria billardierei and Atriplex paludosa ssp.
Benchmark Community	NA 9.1 – Shrublands and Low Shrublands on Coastal Dunes and Shell grit Ridges
	SE end of Recreation Drive on the S side





Table 292. Flora Species List at Roadside Marker Site 088

Native				
Species Name	Common Name	AUS	SA	
Acacia ligulata	Umbrella Bush			
Adriana quadripartita	Coast Bitter-bush			
Alyxia buxifolia	Sea Box			
Atriplex paludosa ssp.	Marsh Saltbush			
Austrostipa elegantissima	Feather Spear-grass			
Austrostipa sp.	Spear-grass			
Dianella brevicaulis	Short-stem Flax-lily			
Distichlis distichophylla	Emu-grass			
Enchylaena tomentosa var.	Ruby Saltbush			
Exocarpos aphyllus	Leafless Cherry			
Frankenia pauciflora var.	Southern Sea-heath			
Melaleuca lanceolata	Dryland Tea-tree			
Myoporum insulare	Common Boobialla			
Nitraria billardierei	Nitre-bush			
Olearia axillaris	Coast Daisy-bush			
Rhagodia candolleana ssp.	Sea-berry Saltbush			
Suaeda australis	Austral Seablite			
Tetragonia implexicoma	Bower Spinach			
Threlkeldia diffusa	Coast Bonefruit			
Introduced				
Species Name	Common Name	Declared	WoNS	Environmental Weed
Acacia saligna	Golden Wreath Wattle			Yes
Asphodelus fistulosus	Onion Weed			Yes
Avena barbata	Bearded Oat			Yes
Euphorbia terracina	False Caper	Yes		
Hordeum vulgare	Barley			Yes
Lagurus ovatus	Hare's Tail Grass			
Limonium companyonis	Sea-lavender			
Mesembryanthemum sp.	Iceplant			Yes
Reichardia tingitana	False Sowthistle			
Scabiosa atropurpurea	Pincushion			Yes



Table 293. Scores for Bushland Assessment Vegetation Condition Components for Roadside Marker Site 088.

Attribute	Score
Native Plant Species Diversity	27/30
Weeds	8/15
Native Plant Life forms	16/20
Regenerating	6/12
Native: Exotic Understorey Biomass	3/5
Tree Canopy cover	NA
Hollow-bearing trees	NA
Fallen Timber/debris	NA
Mature Tree	NA
TOTAL VEGETATION CONDITION SCORE	49.37/80

#### 5.18.2 Roadside Marker Site 091 (Port Gawler Rd)

No posts were observed at Site 91 (Table 294). A *Eucalyptus largiflorens* Woodland was located alongside a private track (138.4741 -34.6449) off Port Gawler Rd. This vegetation is in better quality compared to Site 91 and should be considered as a Site. A total of four native species were identified at Site 91, with no species naturally regenerating. A total of four introduced species were observed with the presence of four environmental weeds and no declared weeds. No threatened species protected under the NPW Act and the EPBC Act were observed on Site. Overall, Site 91 received a VCS of 3.25 out of 80, reflecting vegetation of low quality (Table 296).

Table 294. Summary of Roadside Marker Site 091.

Site	091
Road	Port Gawler Rd
Suburb	Port Gawler
Date surveyed	13/1/2023
	<b>Start:</b> 138.4746 -34.6405 (W end of Port Gawler Rd)
Longitude and Latitude	End: 138.476 -34.64 (E end of Port Gawler Rd)
Posts present?	No
Threats	Weed invasion
Vegetation Condition Score	Low – 3.25
Adjacent land use	Cropping/agriculture
Vegetation association	Maireana brevifolia Shrubland over exotic grasses
	NA 5 – Mallee & Woodlands with Open Chenopod and Sclerophyll Shrub
Benchmark Community	understory.
Photo points	W end of Port Gawler Rd





E end of Port Gawler Rd



Vegetation alongside a private track off Port Gawler Rd



Table 295. Flora Species List at Roadside Marker Site 091.

Table 200. I lora openico Elot	rabio 2001 i lota oposico Elot at resadoras marker otto com				
Native					
Species Name	Common Name	AUS	SA		
Austrostipa sp.	Spear-grass				
Enchylaena tomentosa var.					
tomentosa	Ruby Saltbush				



Native				
Species Name	Common Name	AUS	SA	
Maireana brevifolia	Short-leaf Bluebush			
Nitraria billardierei	Nitre-bush			
Introduced				
Species Name	Common Name	Declared	WoNS	Environmental Weed
Asphodelus fistulosus	Onion Weed			Yes
Avena barbata	Bearded Oat			Yes
Lactuca serriola f. integrifolia	Prickly Lettuce			Yes
Piptatherum miliaceum	Rice Millet			Yes

Table 296. Scores for Bushland Assessment Vegetation Condition Components for Roadside Marker Site 091.

Attribute	Score
Native Plant Species Diversity	6/30
Weeds	11/15
Native Plant Life forms	4/20
Regenerating	0/12
Native: Exotic Understorey Biomass	0/5
Tree Canopy cover	0/5
Hollow-bearing trees	0/5
Fallen Timber/debris	0/5
Mature Tree	0/5
TOTAL VEGETATION CONDITION SCORE	3.25/80



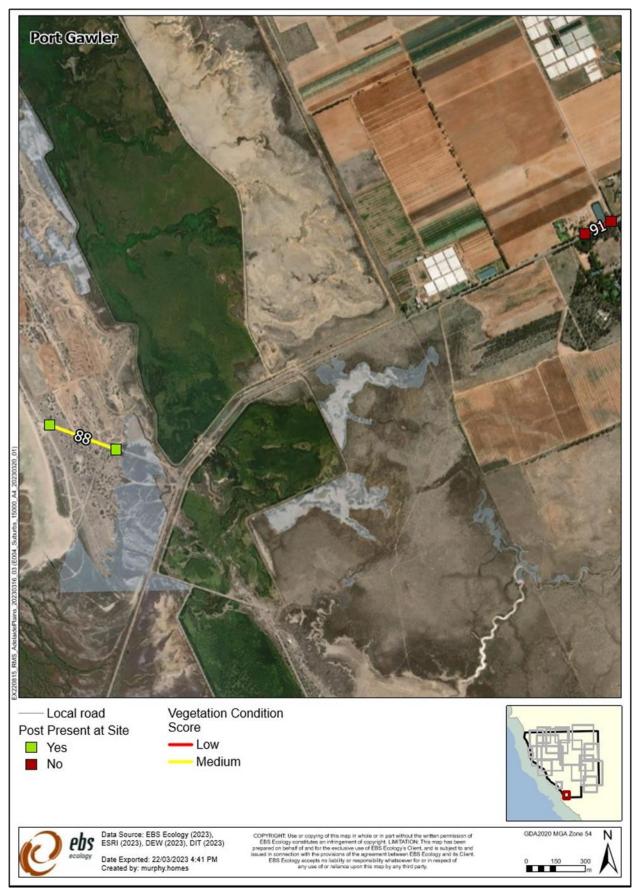


Figure 24. Roadside Marker Sites across Port Gawler.



#### 5.19 Middle Beach

A total of two Sites were surveyed across Middle Beach (Figure 25).

#### 5.19.1 Roadside Marker Site 090 (Middle Beach Rd and Shorebird Rd)

One post was observed at the start of Site 90 (Table 297). A total of 24 native species were, with seven species naturally regenerating. A total of 10 introduced species were observed with the presence of five environmental weeds and one declared weed. No threatened species protected under the NPW Act and the EPBC Act were observed on Site. Site 90 had two different benchmark communities, NA 9.1 and NA 10.2 therefore, this vegetation was assessed separately, and the scores were not averaged. Site 90a (Salicornia spp. Shrubland) received a VCS of 56.02 out of 80, reflecting vegetation of medium quality. Site 90b (Alyxia buxifolia and Pittosporum angustifolium Shrubland) received a VCS of 52.79 out of 80, reflecting vegetation of medium quality (Table 299).

Table 297. Summary of Roadside Marker Site 090

Site	090
Road	Middle Beach Rd and Shorebird Rd
Suburb	Middle Beach
Date surveyed	10/1/2023
	<b>Start:</b> 138.4122 -34.6017 (NE end of Middle Beach Rd)
Longitude and Latitude	End: 138.414 -34.6089 (S end of Shorebird and The Esplanade)
Posts present?	One (NE end of Middle Beach Rd)
Threats	Weed invasion
Vegetation Condition	<b>90a:</b> Medium - 56.02
Score	<b>90b</b> : Medium - 52.79
Adjacent land use	Cropping/agriculture
	90a: Salicornia spp. Shrubland
Vegetation association	90b: Alyxia buxifolia and Pittosporum angustifolium Shrubland
	NA 10.2 – Samphire low shrublands with infrequent inundation/Lower salinity
Benchmark Community	NA 9.1 – Shrublands and Low Shrublands on Coastal Dunes and Shell grit Ridges
Photo points	NE end of Middle Beach Rd





S end of Shorebird and The Esplanade



Table 298. Flora Species List at Roadside Marker Site 090.

Native				
Species Name	Common Name	AUS	SA	
Alyxia buxifolia	Sea Box			
Atriplex cinerea	Coast Saltbush			
Atriplex paludosa ssp.	Marsh Saltbush			
Austrostipa elegantissima	Feather Spear-grass			
Austrostipa nodosa	Tall Spear-grass			
Austrostipa sp.	Spear-grass			
Dianella sp.	Flax-lily			
Distichlis distichophylla	Emu-grass			
Enchylaena tomentosa var.	Ruby Saltbush			
Exocarpos aphyllus	Leafless Cherry			
Geijera linearifolia	Sheep Bush			
Lawrencia spicata	Salt Lawrencia			
Maireana oppositifolia	Salt Bluebush			
Myoporum insulare	Common Boobialla			
Nitraria billardierei	Nitre-bush			
Olearia axillaris	Coast Daisy-bush			
Pimelea sp.	Riceflower			
Pittosporum angustifolium	Native Apricot			
Rhagodia candolleana ssp.	Sea-berry Saltbush			
Salicornia blackiana	Thick-head Samphire			
Salicornia quinqueflora ssp. quinqueflora	Beaded Samphire			
Sclerolaena diacantha	Grey Bindyi			



Native				
Species Name	Common Name	AUS	SA	
Senecio sp.				
Suaeda australis	Austral Seablite			
Tecticornia arbuscula	Shrubby Samphire			
Threlkeldia diffusa	Coast Bonefruit			
Introduced				
Species Name	Common Name	Declared	WoNS	Environmental Weed
Asphodelus fistulosus	Onion Weed			Yes
Avena barbata	Bearded Oat			Yes
Euphorbia terracina	False Caper			Yes
Lagurus ovatus	Hare's Tail Grass			
Limonium sp.	Sea-lavender			
Lolium perenne	Perennial Ryegrass			Yes
Marrubium vulgare	Horehound	Yes		
Plantago coronopus ssp.	Bucks-horn Plantain			
Reichardia tingitana	False Sowthistle			
Sonchus oleraceus	Common Sow-thistle			Yes

Table 299. Scores for Bushland Assessment Vegetation Condition Components for Roadside Marker Site 090.

Attribute	90a	90b
Native Plant Species Diversity	27/30	24/30
Weeds	6.5/15	6.5/15
Native Plant Life forms	16/20	16/20
Regenerating	9/12	9/12
Native: Exotic Understorey Biomass	4/5	4/5
Tree Canopy cover	NA	NA
Hollow-bearing trees	NA	NA
Fallen Timber/debris	NA	NA
Mature Tree	NA	NA
TOTAL VEGETATION CONDITION SCORE	56.02/80	52.79/80

#### 5.19.2 Roadside Marker Site 092 (Middle Beach Rd)

One post was observed on the northern end of this Site on Smith Rd at Site 92 (Table 300). A total of 12 native species were identified, with two species naturally regenerating. A total of 10 introduced species were observed with the presence of three environmental weeds (Table 301). No threatened species protected under the NPW Act and the EPBC Act were observed on Site. Overall, Site 92 received a VCS of 8.60 out of 80, reflecting vegetation of low quality (Table 302).

Table 300. Summary of Roadside Marker Site 092.

Site	092
Road	Middle Beach Rd
Suburb	Middle Beach
Date surveyed	10/1/2023



	Adelaide Flains Council Roadside Market Scheme Ecological Assessmen
	Start: 138.4258 -34.5832 (N end of Smith Rd on the E side)
Longitude and Latitude	End:138.4311 -34.586 (E end of Middle Beach Rd)
Posts present?	One
Threats	Mowing of roadside vegetation, tyres, weed invasion and plantings
Vegetation Condition Score	Low – 8.60
Adjacent land use	Cropping/agriculture
Vegetation association	Melaleuca brevifolia and Nitraria billardierei Shrubland
Benchmark Community	NA 5 – Mallee & Woodlands with Open Chenopod and Sclerophyll Shrub understory.
	N end of Smith Rd on the E side
	E end of Middle Beach Rd
Photo points	
i noto pointa	

Table 301. Flora Species List at Roadside Marker Site 092.

Native				
Species Name	Common Name	AUS	SA	
Acacia notabilis	Notable Wattle			
Acacia oswaldii	Umbrella Wattle			
Atriplex cinerea	Coast Saltbush			
Atriplex paludosa ssp.				
cordata	Marsh Saltbush			
Enchylaena tomentosa var.	Ruby Saltbush			



Native				
Species Name	Common Name	AUS	SA	
Melaleuca brevifolia	Short-leaf Honey-myrtle			
Nitraria billardierei	Nitre-bush			
Pittosporum angustifolium	Native Apricot			
Rhagodia candolleana ssp.	Sea-berry Saltbush			
Rhagodia parabolica	Mealy Saltbush			
Rytidosperma sp.	Wallaby-grass			
Tetragonia sp.	False Spinach			
Introduced				
Species Name	Common Name	Declared	WoNS	Environmental Weed
Aizoon pubescens	Coastal Galenia			Yes
Brassica rapa ssp. rapa	Turnip Rape			
Brassica sp.				
Lolium sp.	Ryegrass			
Piptatherum miliaceum	Rice Millet			Yes
Reichardia tingitana	False Sowthistle			
Rumex sp.	Dock			
Salvia verbenaca var.	Wild Sage			Yes
Sisymbrium sp.	Wild Mustard			
Vulpia sp.	Fescue			

Table 302. Scores for Bushland Assessment Vegetation Condition Components for Roadside Marker Site 092.

Attribute	Score
Native Plant Species Diversity	9/30
Weeds	10/15
Native Plant Life forms	4/20
Regenerating	3/12
Native: Exotic Understorey Biomass	2/5
Tree Canopy cover	0/5
Hollow-bearing trees	0/5
Fallen Timber/debris	0/5
Mature Tree	0/5
TOTAL VEGETATION CONDITION SCORE	8.60/80



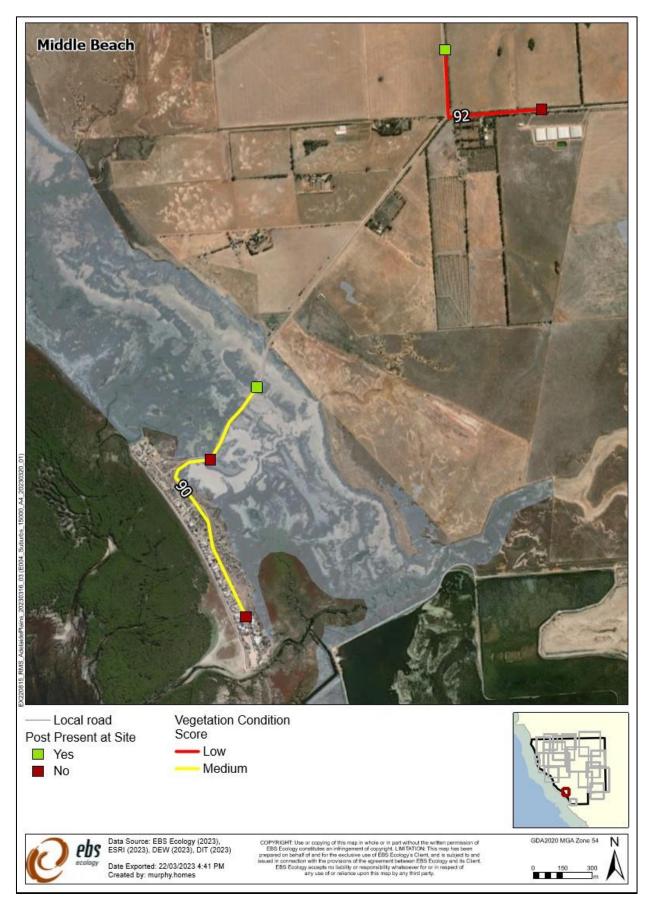


Figure 25. Roadside Marker Sites across Middle Beach.



#### 6 SURVEY SUMMARY

Across the Adelaide Plains region, a total of six benchmark communities (Croft *et al.* 2005-2009, Appendix 9.3) were observed. This included:

- NA 4 Low Woodlands & Open Mallee with dense to mid-dense shrub &/or Spinifex and sedge understorey (three sites);
- NA 5 Mallee & Woodlands with Open Chenopod and Sclerophyll Shrub understory (87 sites);
- NA 7.1 Riparian Woodlands (one site);
- NA 9.1 Shrublands and Low Shrublands on Coastal Dunes and Shell-grit Ridges (five sites);
- NA 9.2 Low Woodlands on Coastal Dunes and Shell Grit Ridges (three sites); and
- NA 10.2 Samphire low shrublands with infrequent inundation/Lower salinity (four sites).

A total of five Roadside Marker Sites (15, 85, 86, 90 and 93) contained one or more benchmark communities. These sites were located along the western side of the Project Area (Figure 26), where samphire shrublands, amongst salt clay pans, meet with the coastal dunes and shell-grit ridges. The vast majority of RMS sites (approx. 84%) were assessed as the *Mallee & Woodlands with Open Chenopod and Sclerophyll Shrub understory community*. A total of 4% of the sites assessed were determined as the *Shrublands and Low Shrublands on Coastal Dunes and Shell-grit Ridges* and approximately 3.9% of the sites were assessed as *Samphire low shrublands with infrequent inundation/Lower salinity*. Only three sites were assessed as *Low Woodlands & Open Mallee with dense to mid-dense shrub &/or Spinifex and sedge understorey* and *Low Woodlands on Coastal Dunes and Shell Grit Ridges*, with only one site (102) assessed as a Riparian Woodland.

Out of 99 Roadside Marker Sites assessed, there were a total of 103 different vegetation associations. The following condition was observed across the Sites:

- One site (Site 85a) have a High Vegetation Condition Score (VCS);
- Seven sites have a Medium to High VCS;
- 56 sites have a Medium VCS;
- 27 sites have a Low to Medium VCS; and
- 13 sites have a Low VCS (Appendix 2: Complete list of RMS Sites, condition, benchmark community and vegetation association).

All of the Sites assessed, showed signs of degradation, this included:

- Weed invasion;
- Inappropriate management by land holders (roadside verge planting and spray drift);
- Illegal dumping and roadside rubbish; and
- Introduced pests.

Section 6, under Recommendations discusses these in more detail.



#### 7 RECCOMENDATIONS

To improve the overall condition of vegetation, recorded at each of the Roadside Marker Sites, the following recommendations should be considered. These recommendations are based on both direct observations made during the field work, as well as additional to the Roadside Vegetation Management Plan written by J. Pedler and W. Matheson (1993), and the Roadside Vegetation Drive-by Survey #60 by V. Philpott (2004).

#### 7.1 Weed control

The invasion of weeds was prominent across all of the Sites surveyed. This includes both environmental and declared weeds. Council is responsible for the control of declared weeds on land owned or under the control of Council, as outlined in the *Landscape of South Australia* (LSA) *Act 2019*. Declared weeds and Weeds of National Significance (WoNS) should be the priority. This includes, but is not limited to:

- Asparagus asparagoides (Bridal Creeper):
- Lycium ferocissimum (African Boxthorn);
- Oncosiphon suffruticosum (Calomba Daisy):
- Solanum elaeagnifolium (Silver-leaf Nightshade); and
- Tamarix aphylla (Athel Pine).

Weeds pose an ongoing management challenge, and a variety of management methods are required to control various weed species. EBS recommends that APC consult the *Weed Control Handbook for Declared Plants in South Australia* (PIRSA, 2018), or seek expert advice for details on recommended herbicide use and application. Other garden escapees and agricultural plantings are also a major issue across RMS Sites, especially at Site 50. As stated by the *Local Government Act* (LGA) *1999*, "a person (other than the Council or a person acting under some statutory authority) must not make an alteration to a public road unless authorised to do so by the Council (APC 2021)". EBS observed during the field survey work that garden plantings (most of which were introduced), had extended out into the verge both intentionally and unintentionally. EBS recommends that Adelaide Plains Council may undertake an education program with residents to ensure that plantings must remain within the property boundary.

#### 7.2 Pest and pet management

Introduced fauna, such as foxes, cats, rabbits, and hares, have become part of the Australian landscape. Roadside vegetation provides refuges for these pests which can then exploit urban resources. A species that has learnt to exploit extra resources such as this, is the European Fox (*Vulpes vulpes*). Similarly, large areas of vegetation, such as Dublin Scrub, provide hunting grounds for both feral and domesticated pets, in particular cats, which are allowed to roam free. These predators pose significant threats to any wildlife remaining in the patch. Control options for pest animals is difficult in urban environments, where the use of poison baits is not suitable, due to the risk to domestic pets. Many of the issues stem from irresponsible domestic pet ownership, where cats are allowed to roam free, resulting in widespread predation on native wildlife such, small birds, and reptiles. Other than legislative / policy changes, the main method of controlling this issue may involve encouraging responsible pet ownership and using educational /



interpretive material to educate people on the biodiversity values of their natural surroundings, and ways in which they can assist with its protection.

#### 7.3 Spray drift

Unexplained dieback was observed across five Sites, especially Sites that were surrounded by agricultural land. Spray drift is a likely cause of the dieback in native species. Spraying of agricultural chemicals is an essential part of primary production. However, primary producers need also to be aware of the impact these chemicals have on the surrounding environment (PIRSA 2013).

#### 7.4 Revegetation

Revegetation will help to improve the overall vegetation condition score of RMS Sites, by reducing the establishment of exotic weeds and re-establishment of native species. Selecting local indigenous species grown from native seeds or plant material are generally the preferred choice for revegetation, as they provide the greatest long-term benefits because they:

- are best suited to the local conditions and are well suited to regenerating without assistance;
- maximise biodiversity in the local area and provide the best habitat for local wildlife;
- o benefit the health of existing remnants; and
- will maintain the natural character of the local landscape (Greening Australia 2003).

It is also recommended that plants and ecological communities that are protected under the NPW Act and the EPBC Act, should be targeted for revegetation projects, where possible.

#### 7.5 Other

These recommendations are discussed further in the Revegetation and Management Plan (EBS 2023a, in prep)). A summary of the main recommendations are as follows:

- Increase community awareness and engagement by either the formation of a roadside vegetation management group or by distribution of newsletters, emails and meetings.
- Updating the current RMS signs with new improved signs to help highlight areas of protected remnant vegetation. This will improve vegetation condition monitoring in the future and educate the general public on the importance of native vegetation.
- Extension of RMS Sites (i.e., 4, 28, 49 and 55) to protect existing remnant vegetation and or include new Sites to exiting RMS.
- Abolish Sites that have a low score (i.e., 91) and are past the point of rehabilitation.
- Implement appropriate weed hygiene methods when undertaking roadside maintenance activities.
- Incorporate appropriate fire management to prevent future catastrophic bushfires and to increase the regeneration of natives. Continue to manage what was rehabilitated after the Pinery fire.



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micalSDrift0913.pdf

# 9 APPENDICES

# 9.1 Appendix 1. Fauna species recorded during the survey.

*	Scientific name	Common name	Conservati	on status
			Aus	SA
AVE	S			
	Actitis hypoleucos	Common Sandpiper		R
	Anthochaera carunculata	Red Wattlebird		
	Cacatua galerita	Sulphur-crested Cockatoo		
	Chroicocephalus novaehollandiae	Silver Gull		
	Coracina novaehollandiae	Black-faced Cuckooshrike		
	Cygnus atratus	Black Swan		
	Egretta garzetta	Little Egret		
	Elanus axillaris	Black Shouldered Kite		
	Epthianura albifrons	White-fronted Chats		
	Falco berigora	Brown Falcon		
	Glossopsitta concinna	Musk lorikeet		
	Gymnorhina tibicen	Australian Magpie		
	Haematopus longirostris	Pied Oyster Catcher		
	Lalage tricolor	White-winged Triller		
	Larus argenteus	Seagull		
	Lichenostomus virescens	Singing honeyeater		
	Malurus leucopterus	White-winged Fairy Wren		
	Manorina melanocephala	Noisy Miner		
	Microcarbo melanoleucos melanoleucos	Little Pied Cormorant		
	Neophema elegans	Elegant parrot		R
	Ocyphaps lophotes	Crested Pigeon		
k	Passer domesticus	House Sparrow		
	Pelecanus conspicillatus	Pelican		
	Phalacrocorax sulcirostris	Little black cormorant		
	Phaps chalcoptera	Bronzewing Pigeon		
	Phylidonyris novaehollandiae	New Holland Honeyeater		
	Platycercus elegans	Crimson Rosella		
	Pomatostomus superciliosus	White-browed Babblers		
	Psephotus haematonotus	Red-rumped Parrots		
	Psephotus varius	Mulga Parrot		
	Threskiornis moluccus	White Ibis		
	Turnix velox	Button Quail		
	Vanellus miles	Masked lapwing		
MAI	MMALIA			
k	Felis catus	Cat		
*	Lepus europaeus	Hare		
	Macropus rufus	Red Kangaroo		
*	Oryctolagus cuniculus	Rabbit		



#### Adelaide Plains Council Roadside Marker Scheme Ecological Assessment

*	Scientific name	Common name  Aus	Conservation status		
			Aus	SA	
	Pseudonaja textilis	Eastern Brown snake			
	Tiliqua rugosa	Sleepy Lizard			
	Varanus gouldii	Sand goanna			

Aus: Australia (*Environment Protection and Biodiversity Conservation Act 1999*). SA: South Australia (*National Parks and Wildlife Act 1972*). Conservation codes: CE: Critically Endangered. EN/E: Endangered. VU/V: Vulnerable. R: Rare. \*: Introduced.



# 9.2 Appendix 2: Complete list of RMS Sites, condition, benchmark community and vegetation association

RMS	vcs	Benchmark community	Vegetation association
001	Low	NA 5 – Mallee & Woodlands with Open Chenopod and Sclerophyll Shrub understory	Eucalyptus socialis and E. gracilis Mallee over Melaleuca Lanceolata and Acacia ligulata.
002	Medium	NA 5 – Mallee & Woodlands with Open Chenopod and Sclerophyll Shrub understory	Eucalyptus odorata Mallee over Acacia ligulata and +/- Myoporum platycarpum
003	Medium	NA 5 – Mallee & Woodlands with Open Chenopod and Sclerophyll Shrub understory	Eucalyptus odorata Mallee over Acacia notabilis and Senna artemisioides ssp. X coriacea.
004	Low to Medium	NA 5 – Mallee & Woodlands with Open Chenopod and Sclerophyll Shrub understory	Melaleuca brevifolia and Nitraria billardierei Shrubland
005	Medium	NA 5 – Mallee & Woodlands with Open Chenopod and Sclerophyll Shrub understory	Eucalyptus porosa Open Mallee over Acacia ligulata and A. notabilis
006	Medium	NA 5 – Mallee & Woodlands with Open Chenopod and Sclerophyll Shrub understory	Eucalyptus porosa and E. odorata over Acacia notabilis and Senna spp.
007	Low	NA 5 – Mallee & Woodlands with Open Chenopod and Sclerophyll Shrub understory	Eucalyptus socialis Mallee over Senna artemisioides ssp. petiolaris
800	Medium	NA 5 – Mallee & Woodlands with Open Chenopod and Sclerophyll Shrub understory	Eucalyptus socialis Mallee over Maireana brevifolia and Senna artemisioides
009	Medium	NA 5 – Mallee & Woodlands with Open Chenopod and Sclerophyll Shrub understory	Senna artemisioides ssp. X coriacea with Acacia spp. Shrubland
010	Medium	NA 5 – Mallee & Woodlands with Open Chenopod and Sclerophyll Shrub understory	Eucalyptus odorata Mallee over Senna spp. and Acacia oswaldii
011	Medium	NA 5 – Mallee & Woodlands with Open Chenopod and Sclerophyll Shrub understory	Eucalyptus porosa +/- E. largiflorens Mallee over Acacia spp. and Rhagodia parabolica
012	Low	NA 5 – Mallee & Woodlands with Open Chenopod and Sclerophyll Shrub understory	Eucalyptus gracilis Open Mallee over Senna spp.
013	Medium	NA 5 – Mallee & Woodlands with Open Chenopod and Sclerophyll Shrub understory	Eucalyptus socialis & E. odorata over Senna spp.
014	Medium	NA 5 – Mallee & Woodlands with Open Chenopod and Sclerophyll Shrub understory	Eucalyptus socialis, E. odorata, E. gracilis Mallee over Senna spp.
015a	Medium	NA 4 Low Woodlands & Open Mallee with Dense to Mid dense Shrub & / or Spinifex and sedge Understorey	Eucalyptus incrassata over Rhagodia parabolica +/- Triodia scariosa
015b	Medium	NA 5 – Mallee & Woodlands with Open Chenopod and Sclerophyll Shrub understory	Eucalyptus porosa and Eucalyptus brachycalyx mallee over Senna spp.
016	Low to Medium	NA 5 – Mallee & Woodlands with Open Chenopod and Sclerophyll Shrub understory	Eucalyptus porosa Mallee over Senna artemisioides and Acacia notabilis
017	Medium	NA 5 – Mallee & Woodlands with Open Chenopod and Sclerophyll Shrub understory	Eucalyptus socialis +/- Mixed Mallee over Senna spp.
018	Low to Medium	NA 5 – Mallee & Woodlands with Open Chenopod and Sclerophyll Shrub understory	Eucalyptus socialis Mallee over Senna artemisioides ssp.
019	Medium	NA 5 – Mallee & Woodlands with Open Chenopod and Sclerophyll Shrub understory	Eucalyptus porosa +/- Mixed Eucalyptus spp. Mallee over Senna spp.
020	Medium	NA 5 – Mallee & Woodlands with Open Chenopod and Sclerophyll Shrub understory	Eucalyptus phenax +/- Mixed Eucalyptus spp. Mallee over Senna spp.
021	Medium	NA 5 – Mallee & Woodlands with Open Chenopod and Sclerophyll Shrub understory	Eucalyptus socialis +/- Mixed Eucalyptus spp. Mallee over Senna spp.
022	Medium	NA 5 – Mallee & Woodlands with Open Chenopod and Sclerophyll Shrub understory	Eucalyptus odorata Mallee over Callitris gracilis
023	Low to Medium	NA 5 – Mallee & Woodlands with Open Chenopod and Sclerophyll Shrub understory	Eucalyptus porosa and E.oleosa Mixed Mallee over Callitris gracilis
024	Medium	NA 4 – Low Woodlands & Open Mallee with dense to mid-dense shrub &/or Spinifex and sedge understorey	Eucalyptus socialis Mallee over Senna artemisioides ssp



RMS	vcs	Benchmark community	Vegetation association
025	Medium	NA 4 – Low Woodlands & Open Mallee with dense to mid-dense shrub &/or Spinifex and sedge understorey	Eucalyptus incrassata mixed Mallee over chenopod shrubs
026	Low to Medium	NA 5 – Mallee & Woodlands with Open Chenopod and Sclerophyll Shrub understory	Eucalyptus odorata and E. incrassata Mallee over Melaleuca acuminata, Acacia oswaldii and Rhagodia parabolica
027	Low to Medium	NA 5 – Mallee & Woodlands with Open Chenopod and Sclerophyll Shrub understory	Eucalyptus porosa and E. socialis Mixed Mallee over Callitris gracilis
028	Low to Medium	NA 5 – Mallee & Woodlands with Open Chenopod and Sclerophyll Shrub understory	Senna artemisioides ssp. X coriacea Shrubland
029	Medium	NA 5 – Mallee & Woodlands with Open Chenopod and Sclerophyll Shrub understory	Eucalyptus odorata +/- E. socialis Mixed Mallee over Nitraria billardierei
030	Low	NA 5 – Mallee & Woodlands with Open Chenopod and Sclerophyll Shrub understory	Eucalyptus socialis Mallee over Acacia hakeoides
031	Medium	NA 5 – Mallee & Woodlands with Open Chenopod and Sclerophyll Shrub understory	Eucalyptus socialis Mallee over Senna artemisioides ssp. X coriacea
032	Low	NA 5 – Mallee & Woodlands with Open Chenopod and Sclerophyll Shrub understory	Eucalyptus socialis over Senna artemisioides ssp. X coriacea and Acacia oswaldii
034	Medium	NA 5 – Mallee & Woodlands with Open Chenopod and Sclerophyll Shrub understory	Eucalyptus odorata, E. gracilis Mixed Open Mallee over Acacia ligulata.
035	Low to Medium	NA 5 – Mallee & Woodlands with Open Chenopod and Sclerophyll Shrub understory	Eucalyptus socialis Mallee over Senna spp.
036	Low to Medium	NA 5 – Mallee & Woodlands with Open Chenopod and Sclerophyll Shrub understory	Eucalyptus gracilis Mallee over Senna artemisioides ssp. X coriacea
037	Low to Medium	NA 5 – Mallee & Woodlands with Open Chenopod and Sclerophyll Shrub understory	Acacia ligulata shrubland +/- Eucalyptus socialis
038	Low to Medium	NA 5 – Mallee & Woodlands with Open Chenopod and Sclerophyll Shrub understory	Eucalyptus socialis and E. porosa Mallee over Senna spp.
039	Low to Medium	NA 5 – Mallee & Woodlands with Open Chenopod and Sclerophyll Shrub understory	Eucalyptus porosa Mallee over Senna spp.
040	Medium	NA 5 – Mallee & Woodlands with Open Chenopod and Sclerophyll Shrub understory	Eucalyptus leptophylla Mallee over Acacia spp. and Senna artemisioides ssp. petiolaris
041	Medium	NA 5 – Mallee & Woodlands with Open Chenopod and Sclerophyll Shrub understory	Eucalyptus leptophylla with E. porosa Mallee over Acacia ligulata and A. notabilis
042	Medium	NA 5 – Mallee & Woodlands with Open Chenopod and Sclerophyll Shrub understory	Eucalyptus leptophylla over Senna artemisioides ssp. petiolaris and chenopod shrubs
043	Medium	NA 5 – Mallee & Woodlands with Open Chenopod and Sclerophyll Shrub understory	Eucalyptus porosa Mallee over Acacia oswaldii and Pittosporum angustifolium
044	Medium	NA 5 – Mallee & Woodlands with Open Chenopod and Sclerophyll Shrub understory	Eucalyptus porosa Mallee over Acacia spp
045	Medium	NA 5 – Mallee & Woodlands with Open Chenopod and Sclerophyll Shrub understory	Eucalyptus porosa Mallee over Acacia hakeoides
046	Medium	NA 5 – Mallee & Woodlands with Open Chenopod and Sclerophyll Shrub understory	Eucalyptus porosa Mallee over Senna artemisioides ssp. petiolaris
047	Low to Medium	NA 5 – Mallee & Woodlands with Open Chenopod and Sclerophyll Shrub understory	Eucalyptus porosa Mallee over Pittosporum angustifolium and Eremophila longifolia
048	Medium	NA 5 – Mallee & Woodlands with Open Chenopod and Sclerophyll Shrub understory	Eucalyptus brachycalyx Mallee over Senna artemisioides ssp. X coriacea and Pittosporum angustifolium
049	Medium	NA 5 – Mallee & Woodlands with Open Chenopod and Sclerophyll Shrub understory	Eucalyptus leptophylla and E. socialis and E. odorata Mallee over Pittosporum angustifolium.
050	Medium	NA 5 – Mallee & Woodlands with Open Chenopod and Sclerophyll Shrub understory	Eucalyptus socialis Mallee over Senna spp.
051	Medium to High	NA 5 – Mallee & Woodlands with Open Chenopod and Sclerophyll Shrub understory	Eucalyptus porosa Mallee over Senna artemisioides
052	Medium	NA 5 – Mallee & Woodlands with Open Chenopod and Sclerophyll Shrub understory	Eucalyptus porosa Mallee over Senna artemisioides ssp. and Geijera linearifolia



RMS	VCS	Benchmark community	Vegetation association
TUILO		NA 5 – Mallee & Woodlands with Open	Eucalyptus porosa, E. odorata and E. socialis
053	Medium to High	Chenopod and Sclerophyll Shrub understory	Mixed Mallee over Senna spp. and Acacia spp.
054	Low to Medium	NA 5 – Mallee & Woodlands with Open Chenopod and Sclerophyll Shrub understory	Eucalyptus spp. Mixed Mallee over chenopod shrubs
055	Low	NA 5 – Mallee & Woodlands with Open Chenopod and Sclerophyll Shrub understory	Eucalyptus spp. Mixed Mallee over Pittosporum angustifolium and Chenopod shrubs.
056	Low to Medium	NA 5 – Mallee & Woodlands with Open Chenopod and Sclerophyll Shrub understory	Eucalyptus oleosa and E. socialis Mixed Mallee over Atriplex nummularia ssp
057	Medium	NA 5 – Mallee & Woodlands with Open Chenopod and Sclerophyll Shrub understory	Eucalyptus brachycalyx and E. dumosa Mixed Mallee over Senna artemisioides ssp. petiolaris with Pittosporum angustifolium
058	Medium	NA 5 – Mallee & Woodlands with Open Chenopod and Sclerophyll Shrub understory	Eucalyptus oleosa ssp. ampliata and E. porosa Mixed Mallee over chenopod shrubs
059	Medium	NA 5 – Mallee & Woodlands with Open Chenopod and Sclerophyll Shrub understory	Eucalyptus socialis and E. gracillis Mixed Mallee over Acacia oswaldii
060	Medium	NA 5 – Mallee & Woodlands with Open Chenopod and Sclerophyll Shrub understory	Eucalyptus porosa and E. socialis mixed mallee over Senna spp. and Acacia oswaldii
061	Low to Medium	NA 5 – Mallee & Woodlands with Open Chenopod and Sclerophyll Shrub understory	Eucalyptus socialis and E. gracilis Mixed Mallee over Acacia spp.
063	Medium	NA 5 – Mallee & Woodlands with Open Chenopod and Sclerophyll Shrub understory	Eucalyptus porosa Mixed Mallee over Acacia spp. Shrubland
064	Medium	NA 5 – Mallee & Woodlands with Open Chenopod and Sclerophyll Shrub understory	Eucalyptus gracilis and E. porosa Mixed Mallee over Acacia spp. and Senna spp.
066	Medium	NA 5 – Mallee & Woodlands with Open Chenopod and Sclerophyll Shrub understory	Eucalyptus porosa, E. gracilis and E. socialis Mixed Mallee over Acacia oswaldii
067	Low to Medium	NA 5 – Mallee & Woodlands with Open Chenopod and Sclerophyll Shrub understory	Eucalyptus odorata over Alectryon oleifolius ssp. canescens and Senna artemisioides ssp. petiolaris
068	Medium	NA 5 – Mallee & Woodlands with Open Chenopod and Sclerophyll Shrub understory	Eucalyptus gracilis Mallee over Acacia oswaldii
069	Medium	NA 5 – Mallee & Woodlands with Open Chenopod and Sclerophyll Shrub understory	Eucalyptus oleosa ssp. ampliata Mallee over Pittosporum angustifolium
070	Low to Medium	NA 5 – Mallee & Woodlands with Open Chenopod and Sclerophyll Shrub understory	Eucalyptus oleosa ssp. ampliata and E. brachycalyx Mixed Mallee over Pittosporum angustifolium
071	Medium	NA 5 – Mallee & Woodlands with Open Chenopod and Sclerophyll Shrub understory	Eucalyptus gracilis and E. dumosa Mixed Mallee over Geijera linearifolia and chenopods shrubs
072	Medium to High	NA 5 – Mallee & Woodlands with Open Chenopod and Sclerophyll Shrub understory	Eucalyptus spp. Mixed Mallee over Geijera linearifolia
073	Medium to High	NA 5 – Mallee & Woodlands with Open Chenopod and Sclerophyll Shrub understory	Eucalyptus gracilis and E. dumosa Mallee over Nitraria billardierei and Geijera linearifolia
074	Low	NA 5 – Mallee & Woodlands with Open Chenopod and Sclerophyll Shrub understory	Eucalyptus socialis Mallee over chenopod shrubs
075	Low to Medium	NA 5 – Mallee & Woodlands with Open Chenopod and Sclerophyll Shrub understory	Eucalyptus gracilis and E. socialis Mixed Mallee over chenopod shrubs
076	Low	NA 5 – Mallee & Woodlands with Open Chenopod and Sclerophyll Shrub understory	Eucalyptus gracilis Mixed Mallee over Nitraria billardierei and chenopod shrubland
077	Medium	NA 5 – Mallee & Woodlands with Open Chenopod and Sclerophyll Shrub understory	Eucalyptus gracilis, E. porosa and E. socialis Mixed Mallee over Acacia spp., chenopod shrubs
078	Low to Medium	NA 9.2 – Low Woodlands on Coastal Dunes and Shell Grit Ridges	Myoporum insulare and Olearia axillaris shrubland
079	Medium to High	NA 9.1 Shrublands and Low Shrublands on Coastal Dunes and Shell-grit Ridges	Alyxia buxifolia and Myoporum insulare Shrubland
080	Medium	NA 9.2 – Low Woodlands on Coastal Dunes and Shell Grit Ridges	Melaleuca lanceolata Low Woodland



## Adelaide Plains Council Roadside Marker Scheme Ecological Assessment

RMS	vcs	Benchmark community	Vegetation association
081	Low to Medium	NA 5 – Mallee & Woodlands with Open Chenopod and Sclerophyll Shrub understory	Eucalyptus gracilis and E. dumosa over Geijera linearifolia and Threlkeldia diffusa
082	Low	NA 5 – Mallee & Woodlands with Open Chenopod and Sclerophyll Shrub understory	Nitraria billardierei and Melaleuca brevifolia shrubland +/- Eucalyptus spp.
083	Low to Medium	NA 5 – Mallee & Woodlands with Open Chenopod and Sclerophyll Shrub understory	Eucalyptus oleosa and E. gracilis Mixed Open Mallee over Atriplex paludosa and Nitraria billardierei
084	Low to Medium	NA 5 – Mallee & Woodlands with Open Chenopod and Sclerophyll Shrub understory	Acacia spp. and Santalum acuminatum shrubland
085a	High	NA 10.2 – Samphire low shrublands with infrequent inundation/Lower salinity	Salicornia spp. and Tecticornia ssp. shrubland
085b	Medium	NA 9.1 Shrublands and Low Shrublands on Coastal Dunes and Shell-grit Ridges	Olearia axillaris shrubland
086a	Medium	NA 10.2 – Samphire low shrublands with infrequent inundation/Lower salinity	Salicornia spp. and Tecticornia ssp. shrubland
086b	Low	NA 5 – Mallee & Woodlands with Open Chenopod and Sclerophyll Shrub understory	Senna artemisioides ssp. X coriacea shrubland
087	Medium to High	NA 9.1 Shrublands and Low Shrublands on Coastal Dunes and Shell-grit Ridges	Myoporum insulare and Alyxia buxifolia Tall shrubland
088	Medium	NA 9.1 Shrublands and Low Shrublands on Coastal Dunes and Shell-grit Ridges	Olearia axillaris shrubland over Nitraria billardierei and Atriplex paludosa ssp.
090	Medium	NA 10.2 – Samphire low shrublands with infrequent inundation/Lower salinity	Salicornia spp. Shrubland
091	Low	NA 5 – Mallee & Woodlands with Open Chenopod and Sclerophyll Shrub understory	Maireana brevifolia Shrubland over exotic grasses
093a	Medium to High	NA 10.2 – Samphire low shrublands with infrequent inundation/Lower salinity	Sarcornia spp. and Tecticornia spp. Shrubland
093b	Medium	NA 9.2 – Low Woodlands on Coastal Dunes and Shell Grit Ridges	Myoporum insulare and Olearia axillaris Shrubland +/- Tecticornia spp.
095	Low	NA 5 – Mallee & Woodlands with Open Chenopod and Sclerophyll Shrub understory	Eucalyptus gracilis Open Mallee over Senna spp.
097	Low to Medium	NA 5 – Mallee & Woodlands with Open Chenopod and Sclerophyll Shrub understory	Eucalyptus oleosa Mallee over Eremophila longifolia
098	Low to Medium	NA 5 – Mallee & Woodlands with Open Chenopod and Sclerophyll Shrub understory	Eucalyptus porosa, E. odorata and E. phenax Mixed Mallee over Acacia ligulata and A. notabilis
099	Medium	NA 5 – Mallee & Woodlands with Open Chenopod and Sclerophyll Shrub understory	Eucalyptus gracilis and E. dumosa Mixed Mallee over Geijera linearifolia
100	Low	NA 5 – Mallee & Woodlands with Open Chenopod and Sclerophyll Shrub understory	Acacia oswaldii shrubland over chenopod shrubs
101	Medium	NA 5 – Mallee & Woodlands with Open Chenopod and Sclerophyll Shrub understory	Eucalyptus brachycalyx and Eucalyptus gracilis mallee over Geijera linearifolia
102	Medium	NA 7.1 Riparian Woodlands	Eucalyptus camaldulensis Open Woodland over Phragmites australis



9.3 Appendix 3: Map of the NA benchmark communities across the Project Area.





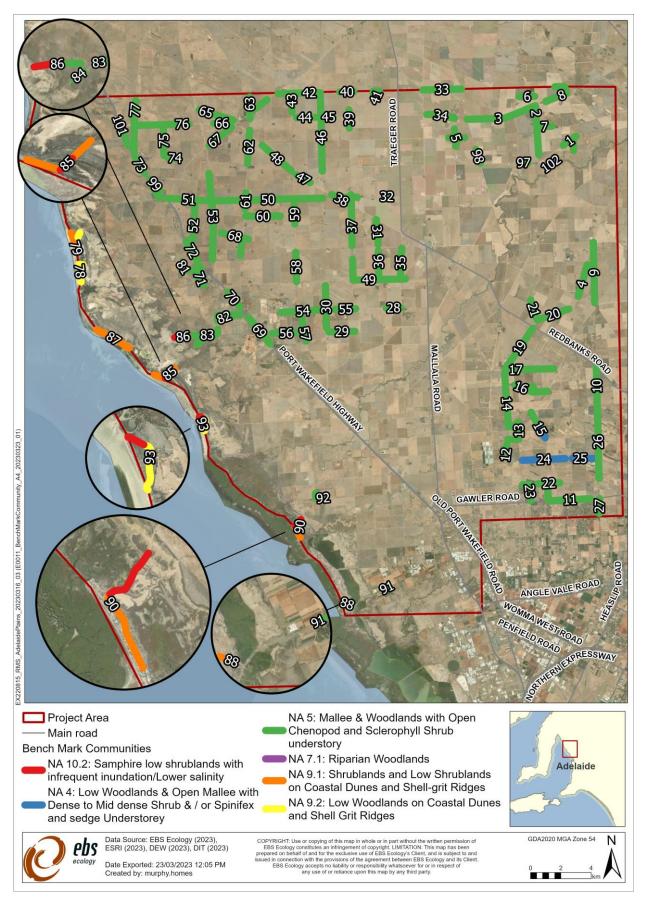


Figure 26. The Northern Agricultural benchmark communities across the Project Area.





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