tern
Ecosystem Research Infrastructure

Summary of Plots on Kangaroo Island

October 2018

Kangaroo Island coastline, South Australia

NCRIS
National Research Infrastructure for Australia
An Australian Government Initiative

Acknowledgements

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Contents

Summary of Plots on Kangaroo Island 1
Acknowledgements 2
Contents 3
Introduction 1
Accessing the Data 3
- Point intercept data 3
- Plant collections 3
- Leaf tissue samples 3
- Site description information 3
- Structural summary 3
- Leaf Area Index 3
- Basal area 4
- Soil classification 4
- Soil meta barcoding samples 4
- Soil bulk density 4
- 3D Photo Panorama 4

Regional Context 8
Uses for TERN AusPlots Data from Kangaroo Island 13
- Kangaroo Island Dunnart Project 13
- The national reference library of expert site condition assessments project 13
- Soil and landscape grid of Australia 13
- Soil chemistry values from NIR 13
- Evaluating the influence of soil colour on MODIS fractional cover estimation in Australia 14
- Tracking changes in fire frequency over time 14
- Wild Orchid Watch (WOW) 14
- Mid-Infrared spectroscopy in terrestrial microplastic analysis 15
- Using ecological understanding to guide the recovery planning process for the diverse woodlands of southern Australia 15
- Herbarium Collections 15
- Other Potential Uses for TERN AusPlots Data 15

For more information 16
- Appendices 17
  - Appendix 1. Summary of the TERN AusPlots data and samples from Kangaroo Island 17
  - Appendix 2. Plot locations 18
  - Appendix 3. Point intercept data 19
  - Appendix 4. Substrate and growth form 23
  - Appendix 5. Structural summary 27
  - Appendix 6. Soil classification 28

Appendix 7. Soil bulk density 31
Appendix 8. Plant collection 32

Introduction

The Terrestrial Ecosystem Research Network (TERN), a part of the National Collaborative Research Infrastructure Strategy (NCRIS), is a body that provides relevant, useful and informative data, tools and services for monitoring of Australian ecosystems. Specifically, TERN measures key terrestrial ecosystem attributes over time from continental scale to field sites at hundreds of representative locations and openly provide data that enable researchers to detect and interpret ecosystem changes. TERN's Ecosystem Surveillance platform conducts field surveys and sampling across a national network of plots and transects following standardized published methods. The data and samples collected from these surveys helps scientists and land managers nationwide to better monitor, understand and manage change in vegetation structure and composition, land cover and soil characteristics.

In October 2018, TERN undertook a survey on Kangaroo Island, South Australia. The survey involved vegetation and soils work following the AusPlots Rangelands methodology, with 12 plots completed. The plots are part of over 730 plots completed nationally. Figure 1 shows the TERN plot network, and Figure 2 show the location of the plots on the island.

This report provides a snapshot of some of the data which was collected during the survey work. A more detailed description of the methods used can be found online in our *AusPlots Rangelands Survey Protocols Manual* (White *et al.* 2012), available from our website www.ausplots.org.

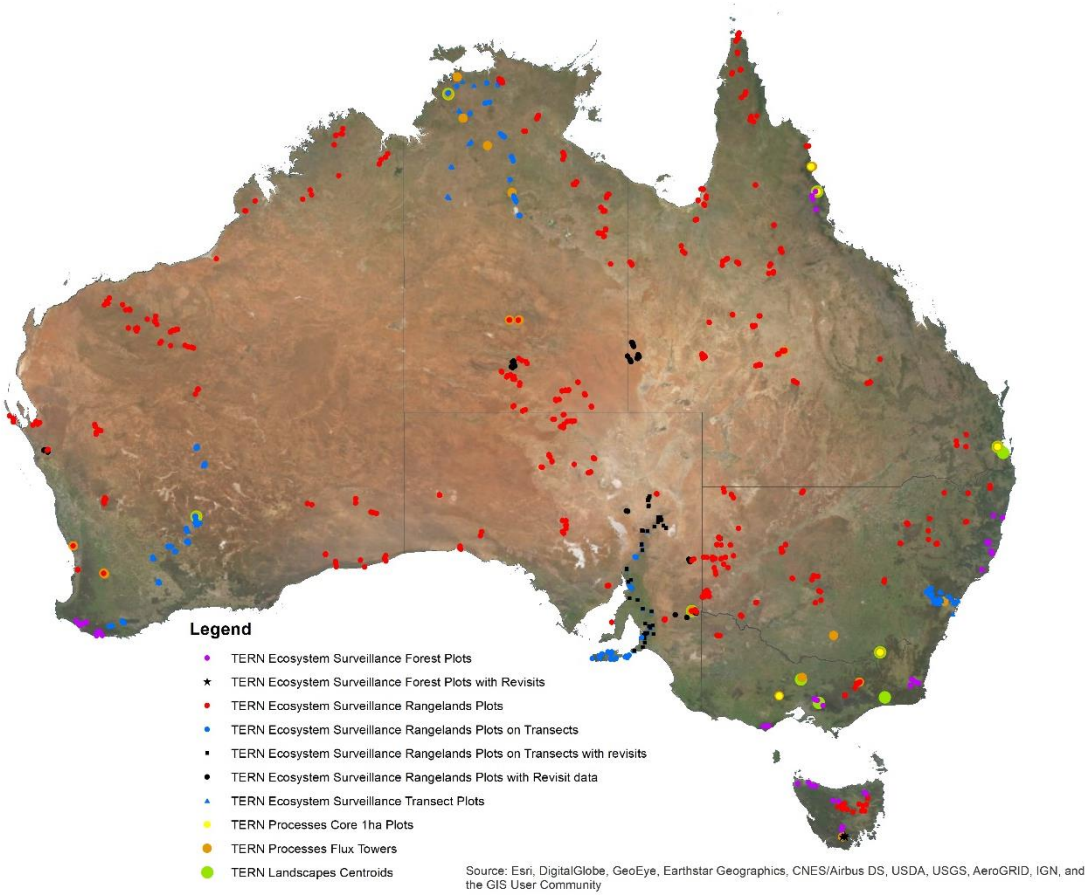

Figure 1. TERN plot network

Figure 2. TERN AusPlots Rangelands plot locations on Kangaroo Island, South Australia

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Accessing the Data

All of the data that TERN collects is freely available online through the AEKOS data portal at www.aekos.org.au. It can also be viewed on the Soils to Satellites website which contains a range of useful visualisations sourced from the Atlas of Living Australia. At http://www.soils2satellites.org.au/. Our data is now also delivered using the AusplotsR package for use in the R Statistical package (https://github.com/ternaustralia/ausplotsR), which now provides a suite of tooling to facilitate access, and preliminary analysis of our data and samples, and provides our most up to date data stream.

Point intercept data

The point intercept method is a straightforward method that is readily repeatable and requires little instruction to produce reliable plot information. It provides accurate benchmark data at each plot including substrate type and cover; as well as species structural information such as growth form, height and cover with population vertical structure. The information produced at each plot can be compared spatially to indicate plot differences, and temporally to indicate change over time. Additionally, the cover data collected at each plot can be used to validate cover data obtained through remote sensing techniques.

Plant collections

Each species that is found within the plot has a herbarium grade sample taken. These have all been formally identified by the relevant Herbarium. This material is then lodged with either that Herbarium or at the TERN sample storage facility in Adelaide.

Leaf tissue samples

These herbarium samples also have leaf tissue samples taken. This involves placing leaf samples from each species into a synthetic bag and drying them on silica desiccant. All of the dominant species have an extra four replicate samples collected from different individuals of the same species located across the plot. These samples are available for use on application to TERN facility in Adelaide. They are able to be used for a range of genetic and isotopic applications.

Site description information

Contextual information is also collected at each plot. This includes measures of slope and aspect, surface strew and lithology along with information on the grazing and fire history of the site. The plot location is also recorded with a differential GPS and the plot corners and centres (with landholder permission) marked with a star picket.

Structural summary

Detailed structural summary information is also collected at each plot. When combined with the height and cover information from the point intercept data it enables the creation of a site structural description compatible with a NVIS level 5 description.

Leaf Area Index

In plots where a mid and/or upper canopy is present a measure of leaf area is recorded. The tool used is an LAI-2200 and it captures LAI measurements in a range of canopies using one or two sensors attached to a single data logger (LI-COR 1990). The LAI data has a range of potential application such as studies of canopy growth, canopy productivity, woodland vigour, canopy fuel load, modelling insect defoliation, remote sensing, and the global carbon cycle.

Basal area

Basal area measurements are collected across plots where trees taller than 2 m occur. Basal area measurements provide information useful for calculating biomass and carbon levels and for structural and productivity studies. Our measurements utilise a tool called a basal wedge to obtain a rapid estimate of site, and occasionally species basal area. Use of the basal wedge may be superseded by further improvements to the three-dimensional photo point method and development of algorithms to provide information on vegetation community structure.

Soil classification

Description and information on soil properties is sparse across the rangeland regions of Australia. The plot descriptions and soil characterisations collected using the AusPlots methods will contribute a great deal to providing information in this substantial gap. The data collected can also be used to increase the reliability of the Soil and Landscape Grid of Australia, produced by TERN and consistent with the Global Soil Map specifications. Analyses of the collected samples will greatly enhance the level of knowledge (e.g. nutrient and carbon levels) and hence understanding of rangelands soils and how they will respond to climate change and various management options.

Soil meta barcoding samples

Metagenomics is the study of genetic material recovered directly from environmental samples. Soil metagenomics provides the opportunity to understand what organisms are present at survey plots and provides an indication on their abundance. All of the TERN AusPlots have soil meta barcoding samples collected at each visit, and these are available for researchers to utilise. Currently there is a project underway to determine if these samples are likely to be useful to detect fauna occurring at these plots.

Soil bulk density

The soil bulk density (BD) is the weight of dry soil divided by the total soil volume. The total soil volume is the combined volume of solids and pores which may contain air or water, or both. The average values of air, water and solids in the sample are easily measured and are a useful indication of a soils physical condition. Soil test results are most often presented either as a percentage of soil (e.g. % organic carbon) or as a weight per unit of soil (e.g. nitrogen, mg/kg). As bulk density is a measure of soil weight in a given volume, it provides a useful conversion from these units to volumetric measures (g/m^3). This allows any soil properties obtained from physical, chemical or biological analysis to be converted to volumetric measures.

3D Photo Panorama

The TERN AusPlots method uses a three-dimensional method for photographing the site. This involves taking three 360-degree panoramas in a triangular pattern. This allows the creation of a 3D model of the vegetation within the site which can be used to monitor change over time, track plot condition as well as providing a unique, fast measurement of basal area and biomass. Photo panoramas for a selection of the plots are shown below.

Figure 3. Plot panorama SAAKAN0001

Figure 4. Plot panorama SAAKAN0002

Figure 5. Plot panorama SAAKAN0003

Figure 6. Plot panorama SAAKAN0004

Figure 7. Plot panorama SAAKAN0005

Figure 8. Plot panorama SAAKAN0006

Figure 9. Plot panorama SAAKAN0007

Figure 10. Plot panorama SAAKAN0008

Figure 11. Plot panorama SAAKAN0009

Figure 12. Plot panorama SAAKAN0010

Figure 13. Plot panorama SAAKAN0011

Figure 14. Plot panorama SAAKAN0012

Regional Context

The Australian continent is divided into 89 distinct bioregions. These regions are classified on the basis of landform, geology, climate and native vegetation characteristics. TERN operates within this regional framework and the sites on Kangaroo Island are within the Kanmantoo (KAN) bioregion. The nearest neighbouring plots are on the Fleurieu Peninsula in the Kanmantoo bioregion and also north on the Yorke Peninsula in the EyreYorke Block (EYB) (Figure 15). Additional information on mean annual temperature, rainfall and elevation within the region are also included (Figures 16, 17 and 18 respectively).

Figure 15. TERN AusPlots Rangelands plot locations close to Kangaroo Island, South Australia

Topographic data copyright Geoscience Australia and South Australian Government

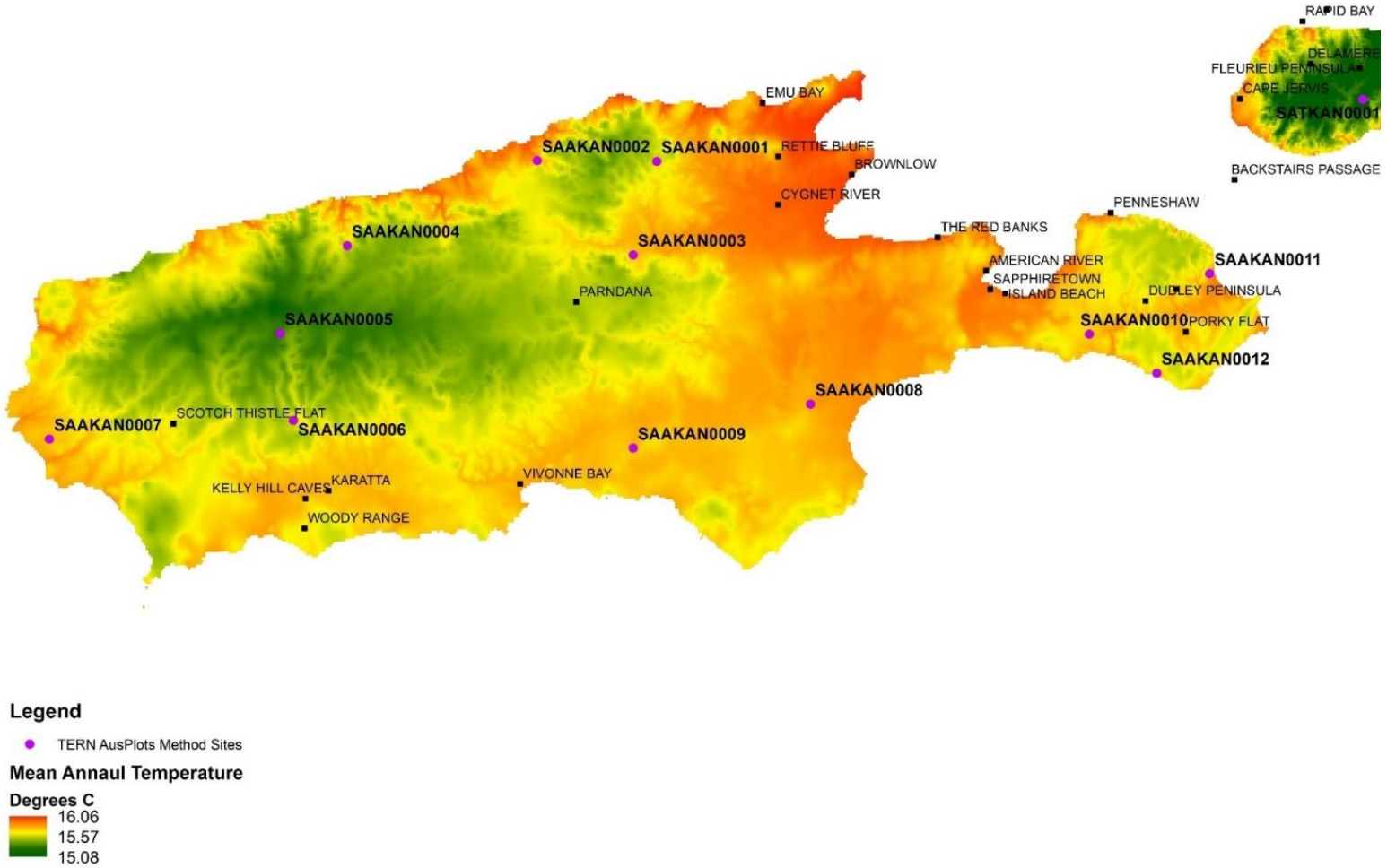

Figure 16. Mean annual temperature

Data from: Xu and Hutchinson, 2011. ANUCLIM Version 6.1. Fenner School of Environment and Society, Australian National University, Australia.

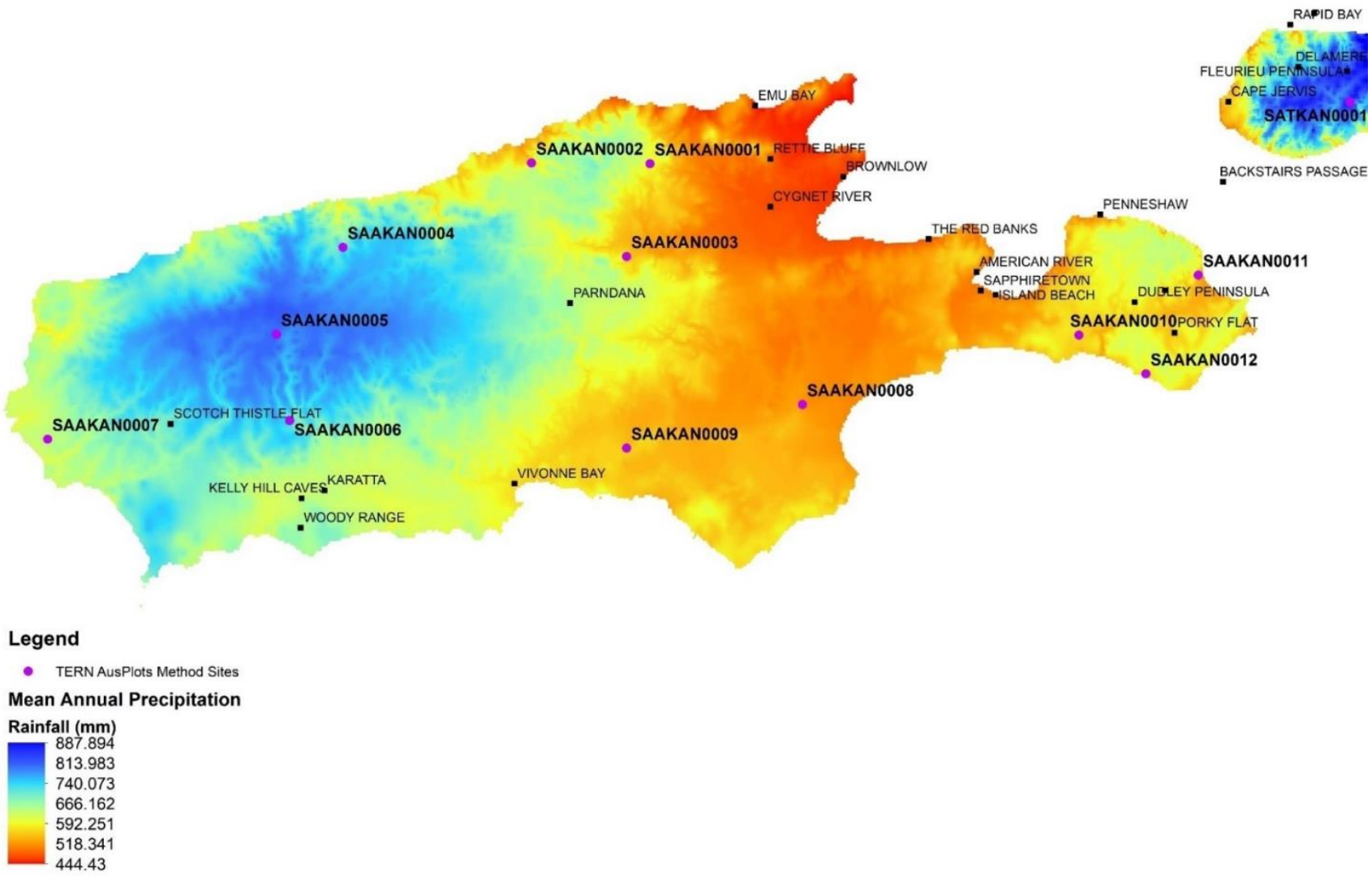

Figure 17. Mean annual Precipitation

Data from: Xu and Hutchinson, 2011. ANUCLIM Version 6.1. Fenner School of Environment and Society, Australian National University, Australia.

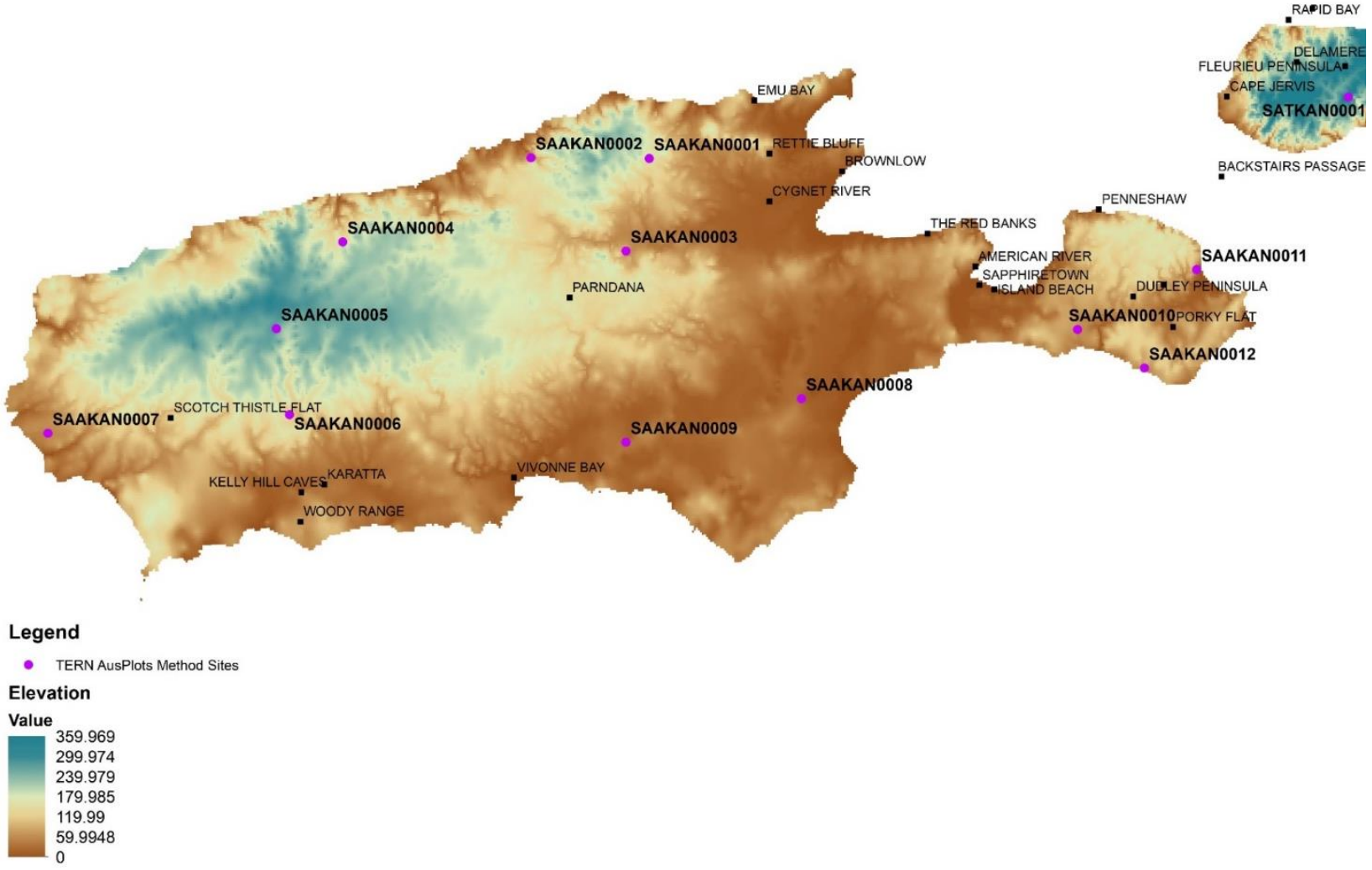

Figure 18. Elevation

Climate Data from: Xu and Hutchinson, 2011. ANUCLIM Version 6.1. Fenner School of Environment and Society, Australian National University, Australia.

Uses for TERN AusPlots Data from Kangaroo Island

The TERN AusPlots survey method was developed out of a need for consistent, national scale ecological data and surveillance monitoring. To date, we have completed over 730 survey plots across the nation. The data and samples collected from these surveys are being used in a range of ways to allow comparisons across the state and the continent. Some of the projects that have made use of the data and samples from Kangaroo Island are listed below.

Kangaroo Island Dunnart Project

Lead researcher: Pat Hodgens

The Kangaroo Island Dunnart (*Sminthopsis aitkeni*) is a critically endangered island mammal. It was previously thought to be a population of the Common Dunnart (*Sminthopsis murina*), but morphological and genetic studies revealed it to be a distinct species. The small (less than 25g) insectivorous marsupial has only been recorded from Kangaroo Island, although genetic studies have revealed it is very closely related with the Grey-bellied Dunnart (*Sminthopsis griseoventer*) from mainland South Australia and Western Australia. TERN worked with Land for Wildlife on Kangaroo Island to co-locate plots where there were known records of dunnarts.

The national reference library of expert site condition assessments project

Lead research organisation: CSIRO

This project is eliciting site-level ecological condition assessments from Australia's ecological science and natural resource management communities. The contributed assessments will be one of the data sources used to build a library of site condition observations from across Australia. The library of condition data will support ongoing development of the CSIRO-DEE Habitat Condition Assessment System (HCAS), a novel method of assessing continent-wide ecological condition using remotely sensed data. The library will also be made available to the research community for other purposes as appropriate.

Soil and landscape grid of Australia

Lead research organisation: CSIRO

The Soil and Landscape Grid of Australia provides relevant, consistent, comprehensive, nation-wide data in an easily-accessible format. The datasets are a first approximation (version 1) of national scale maps designed to be updated and improved over time as resources, new data and improved methods and technologies become available. Soil chemistry and bulk density data from all of the Rangelands Method plots are helping to improve the mapping.

Soil chemistry values from NIR

Lead research organisation: CSIRO

In collaboration with CSIRO, TERN recently completed vis-NIR (near infrared spectroscopy) scanning of all 22,500 soil samples from across the national plot network. This will provide a data set of over 20 different parameters across a site for analysis and will add to the currently collected wet chemistry data and, in the future, some further analyses using MIR

(mid infrared spectrometry). This data can provide a measure of variation of the parameter being measured across a plot or it can also be bulked together to provide a mean value for a plot.

Evaluating the influence of soil colour on MODIS fractional cover estimation in Australia

Lead researcher: Claire Fisk

Soil colour is a significant factor that influences soil reflectance and is believed to negatively influence fractional ground cover estimates derived from MODIS imagery. MODIS fractional cover estimates of ground cover play an important role in ecosystem monitoring across Australia. Claire used TERN data to compare fractional ground cover estimates from the Australian MODIS fractional ground cover product and the AusPlots field measurements, providing a baseline understanding of how the image-derived estimates compared to field estimates; and to examine if soil colour has any influence of the MODIS product using quantitative and qualitative methods. Overall, the MODIS and AusPlot fractional cover values for bare soil and photosynthetic vegetation were strongly correlated, while non- photosynthetic vegetation displayed a weak relationship but was still statistically significant. It is hoped that understanding the effect of soil colour on MODIS fractional cover estimates will assist future calibration efforts to improve the product.

Tracking changes in fire frequency over time

Lead researcher: TERN Adelaide

Using a multi-evidence-based approach consisting of historical aerial images, Sentinel-2, Landsat 7/8 and MODIS spectral imagery, as well as Normalised Difference Visualisation Index (NDVI) graphs this project has been recording fire history across the national network of TERN sites, including the determination of fire severity based on level of canopy burnt. Using the imagery available in Google Earth and Bing Maps, vegetation cover and disturbance over time are also being assessed based on abundance of trees versus shrubs, grass, and bare ground or other. In addition to tracking fire or drought recovery over time, the information provides an extra filtering tool to researchers and land managers looking to use TERN data and samples. It will also be a valuable supplement to our site selection process for new TERN plots and site revisits.

Wild Orchid Watch (WOW)

Lead researcher: Katie Irvine

Australia has the world's most diverse terrestrial orchid flora. Their intriguing life-cycle involves partnerships with mycorrhizal fungi and fascinating pollination strategies such as species-specific insect mimicry. With a variety of sizes and growth forms; flowers ranging from large showy inflorescences to tiny delicate blooms; epiphytic, lithophytic and incredible subterranean habits; it is not surprising that Australian orchids capture the imagination of amateur naturalists and scientists alike. However, many orchid species are threatened. They are highly susceptible to environmental change, are taxonomically complex, and many questions about their taxonomy and ecology remain unanswered. Orchids are often cryptic, population sizes vary seasonally and are widely distributed across Australia. This makes it impossible for researchers alone to gather the necessary information to analyse distribution and abundance and assign conservation status.

Mid-Infrared spectroscopy in terrestrial microplastic analysis

Lead researcher: Patrick Timmins

Patricks' project aims to improve methodology for use of mid-infrared spectroscopy in analysis and quantification of soil microplastics. Methods which have been used in terrestrial microplastic research are slow and complicated, so the creation of an easily applied method will allow for increased uptake of research in the area. This method will then be applied to TERN samples, enabling the quantification of microplastics in different Australian environments. This will allow for the scale of microplastic pollution in Australian ecosystems to be assessed, as well as the detrimental effects this may have on our ecosystems.

Using ecological understanding to guide the recovery planning process for the diverse woodlands of southern Australia

Lead researcher: Megan Good

There are 19 southern Australian eucalypt woodland communities listed as threatened under the Environment Protection and Biodiversity Conservation Act (EPBC Act; 14 Critically Endangered, 5 Endangered) but just 4 of these communities currently have national recovery plans. Under the EPBC Act, listed communities are not necessarily required to have recovery plans, but many have recommendations (in the 'Conservation Advice') that indicate they are required. This work used TERN data to document expert understanding of where we can generalise and transfer understanding from one system to another to aid effective conservation management, without losing critical aspects of what defines each distinct woodland type. We used State Transition Models (STMs) to articulate the different starting and end points for restoration, clarify the key threats impeding recovery, and explore and justify which interventions can be harnessed to best target threats. By providing a basis to transfer understanding from one woodland type to another, the outcomes from this project aim inform recovery planning for listed woodlands.

Herbarium Collections

The AusPlots program works very closely with state and national herbaria to help augment their collections to enable research and to better understand species distributions. Located in valuable areas of native vegetation, the plant collections from Kangaroo Island have been eagerly accepted by the South Australian Herbarium and National Herbarium in Canberra. These specimens are currently being professionally mounted and preserved and will form a permanent part of their collection, which is available to botanical researchers globally to support ongoing research.

Other Potential Uses for TERN AusPlots Data

- Assessing vegetation change using the AusPlots methodology as both a baseline and a continued surveillance monitoring tool.
- Detecting the impact of invasive species based on soil and vegetation data.
- Ground-truthing satellite derived vegetation and soil data
- Soil carbon analysis using the soil bulk density samples
- Mapping soil phosphorus, nitrogen and other nutrients using soil pit and sub-site samples
- Assessing fuel loading using the basal area and leaf area data.
- Use of the leaf tissue samples for genetic and isotopic analysis.

For more information

More information on the AusPlots method can be found on our website www.AusPlots.org

For more information regarding TERN contact Ben Sparrow, Director: phone 08 8313 1201 or email ben.sparrow@adelaide.edu.au

Appendices

Appendix 1. Summary of the TERN AusPlots data and samples from Kangaroo Island

TERN Data and Samples	Count
Total Collections	544
Total Leaf Tissue Samples	831
Total number of soil samples	287
Total weight of soil (kg)	287
Number of sites with Bulk Density data	10
Number of Sites with LAI	12
Number of Sites with Basal wedge	10
Total metagenomic samples	108
Total metagenomics weight (kg)	54

Appendix 2. Plot locations

Plot Name	Date	Location	latitude	longitude
SAAKAN0001	19-Oct-18	13.1km north east of Pioneer Bend, 24.6km west of Kingscote.	-35.64864444	137.3680278
SAAKAN0002	20-Oct-18	2.4km south south east of Stokes Bay Station, 38km west north west of Kingscote.	-35.64326944	137.2173972
SAAKAN0003	21-Oct-18	7.1km east south east of Pioneer Bend, 29.3km west south west of Kingscote.	-35.74408333	137.3340444
SAAKAN0004	22-Oct-18	6.2km east north east of Yakilo, 60.8km west south west of Kingscote.	-35.722538	136.973175
SAAKAN0005	23-Oct-18	7.9km south of Yakilo, 70.5km south west of Kingscote.	-35.810624	136.88294
SAAKAN0006	24-Oct-18	17.6km south of Yakilo 72.5km south west of Kingscote.	-35.899691	136.897263
SAAKAN0007	25-Oct-18	Flinders Chase National Park, 28.1km west of Karatta. 62.1km south west of Parndana.	-35.908982	136.586576
SAAKAN0008	26-Oct-18	8.8km east of Hawks Nest, 28.7km south south west of Kingscote.	-35.904381	137.551283
SAAKAN0009	27-Oct-18	41.8km east of Riverdale, 42.7km south west of Kingscote.	-35.943027	137.324832
SAAKAN0010	28-Oct-18	16km south of Penneshaw, 31.8km south west of Kingscote.	-35.842017	137.906987
SAAKAN0011	29-Oct-18	13.6km south east of Penneshaw, 19.3km south of Cape Jervis.	-35.783373	138.061671
SAAKAN0012	30-Oct-18	18.8km south south east of Penneshaw, 32.5km south south west of Cape Jervis.	-35.884354	137.989879

Appendix 3. Point intercept data

Plot name	Herbarium ID	Common name	Approx. % cover	SA Conservation Code
SAAKAN0001	Xanthorrhoea semiplana subsp. tateana		29.90	
SAAKAN0001	Allocasuarina striata	Small Bull Oak	15.25	
SAAKAN0001	Eucalyptus obliqua	Australian Oak	14.65	
SAAKAN0001	Lepidosperma viscidum	Sticky Sword-sedge	11.68	
SAAKAN0001	Hibbertia devitata		11.39	
SAAKAN0001	Lepidosperma semiteres	Wire Rapier-sedge	9.21	
SAAKAN0001	Eucalyptus baxteri (in canopy sky)	A Brown Stringybark	4.95	
SAAKAN0001	Petrophile multisecta		3.56	
SAAKAN0001	Allocasuarina striata (dead)	Small Bull Oak	3.27	
SAAKAN0001	Eucalyptus cosmophylla	Bog Gum	2.87	
SAAKAN0001	Acrotriche depressa	Wiry Ground-berry	2.28	
SAAKAN0001	Hakea rostrata	Beaked Hakea	2.18	
SAAKAN0001	Eucalyptus obliqua (in canopy sky)	Australian Oak	1.98	
SAAKAN0001	Platylobium obtusangulum	Common Flat-pea	1.88	
SAAKAN0001	Eucalyptus baxteri (dead)	A Brown Stringybark	1.49	
SAAKAN0001	Hibbertia virgata	Guinea-flower	1.29	
SAAKAN0001	Calytrix glaberrima		1.19	
SAAKAN0002	Melaleuca uncinata	Broom Bush	57.62	
SAAKAN0002	Xanthorrhoea semiplana subsp. tateana		43.56	
SAAKAN0002	Allocasuarina verticillata	Drooping Sheoak	17.92	
SAAKAN0002	Eucalyptus odorata	Mallee Box	12.57	
SAAKAN0002	Eucalyptus cladocalyx	Sugar Gum	6.53	
SAAKAN0002	Aira cupaniana	Silvery Hair Grass	2.97	
SAAKAN0002	Cheilanthes austrotenuifolia	Rock Fern	2.77	
SAAKAN0002	Eucalyptus odorata (in canopy sky)	Mallee Box	1.58	
SAAKAN0002	Ranunculus sessiliflorus var. sessiliflorus		1.39	
SAAKAN0002	Prostanthera spinosa	Spiny Mint-bush	1.19	
SAAKAN0002	Acacia paradoxa	Acacia Hedge	1.19	
SAAKAN0002	*Galium murale	Small Bedstraw.	1.09	
SAAKAN0003	Eucalyptus cladocalyx	Sugar Gum	51.68	
SAAKAN0003	Xanthorrhoea semiplana subsp. tateana		22.57	
SAAKAN0003	Allocasuarina verticillata	Drooping Sheoak	19.50	
SAAKAN0003	Rosulabryum capillare		8.22	
SAAKAN0003	Prostanthera spinosa	Spiny Mint-bush	6.93	
SAAKAN0003	Lissanthe strigosa subsp. subulata		6.34	
SAAKAN0003	Eucalyptus cladocalyx (in canopy sky)	Sugar Gum	6.24	
SAAKAN0003	Acacia paradoxa	Acacia Hedge	2.67	
SAAKAN0003	Eucalyptus fasciculosa	Hill Gum	1.98	Rare Species
SAAKAN0003	Microlaena stipoides var. stipoides		1.88	
SAAKAN0003	Melaleuca uncinata	Broom Bush	1.58	
SAAKAN0003	Allocasuarina verticillata (in canopy sky)	Drooping Sheoak	1.39	
SAAKAN0003	Lachnagrostis sp.		1.39	
SAAKAN0003	Aira cupaniana	Silvery Hair Grass	1.09	
SAAKAN0004	Xanthorrhoea semiplana subsp. tateana		55.25	
SAAKAN0004	Leucopogon concurvus		43.07	
SAAKAN0004	Eucalyptus baxteri	A Brown Stringybark	20.50	
SAAKAN0004	Eucalyptus obliqua	Australian Oak	7.03	
SAAKAN0004	Banksia marginata	Silver Banksia	6.24	
SAAKAN0004	Acacia myrtifolia	Myrtle Acacia	5.45	
SAAKAN0004	Dillwynia sericea	Showy Parrot-pea	4.95	
SAAKAN0004	Pultenaea viscidula		4.85	

Plot name	Herbarium ID	Common name	Approx. % cover	SA Conservation Code
SAAKAN0004	Petrophile multisecta		4.75	
SAAKAN0004	Daviesia asperula subsp. asperula		4.36	
SAAKAN0004	Hakea rostrata	Beaked Hakea	3.96	
SAAKAN0004	Boronia edwardsii	Island Boronia	3.76	
SAAKAN0004	Isopogon ceratophyllus	Horny Cone-bush	3.07	
SAAKAN0004	Allocasuarina striata	Small Bull Oak	2.97	
SAAKAN0004	Eucalyptus cosmophylla	Bog Gum	2.97	
SAAKAN0004	Leptomeria aphylla	Leafless Currant-bush	2.28	
SAAKAN0004	Eucalyptus baxteri (in canopy sky)	A Brown Stringybark	2.18	
SAAKAN0004	Euryomyrtus ramosissima subsp. ramosissima		1.98	
SAAKAN0004	Epacris impressa	Common Heath	1.39	
SAAKAN0004	Leptospermum myrsinoides	Heath Teatree	1.09	
SAAKAN0005	Banksia marginata	Silver Banksia	25.15	
SAAKAN0005	Xanthorrhoea semiplana subsp. tateana		20.99	
SAAKAN0005	Eucalyptus remota	Kangaroo Island Mallee Ash	18.32	
SAAKAN0005	Leucopogon concurvus		18.02	
SAAKAN0005	Platylobium obtusangulum	Common Flat-pea	14.46	
SAAKAN0005	Phyllota pleurandroides	Heathy Phyllota	13.86	
SAAKAN0005	Schoenus breviculmis	Matted Bog-rush	10.40	
SAAKAN0005	Allocasuarina striata	Small Bull Oak	9.11	
SAAKAN0005	Lepidosperma semiteres	Wire Rapier-sedge	7.72	
SAAKAN0005	Banksia ornata	Desert Banksia	7.33	
SAAKAN0005	Lepidosperma carphoides	Black Rapier-sedge	7.13	
SAAKAN0005	Hakea rostrata	Beaked Hakea	6.04	
SAAKAN0005	Petrophila multisecta		4.75	
SAAKAN0005	Isopogon ceratophyllus	Horny Cone-bush	4.75	
SAAKAN0005	Dillwynia sericea	Showy Parrot-pea	4.75	
SAAKAN0005	Adenanthos macropodias		4.36	
SAAKAN0005	Tetratheca haematuria		3.86	
SAAKAN0005	Eucalyptus remota (in canopy sky)	Kangaroo Island Mallee Ash	2.48	
SAAKAN0005	Micrantheum demissum		2.48	
SAAKAN0005	Daviesia brevifolia	Leafless Bitter-pea	2.38	
SAAKAN0005	Eucalyptus baxteri	A Brown Stringybark	2.28	
SAAKAN0005	Cassytha glabella f. dispar		2.28	
SAAKAN0005	Calytrix tetragona	Common Fringe-myrtle	2.18	
SAAKAN0006	Eucalyptus remota	Kangaroo Island Mallee Ash	21.58	
SAAKAN0006	Xanthorrhoea semiplana subsp. tateana		15.25	
SAAKAN0006	Caustis pentandra	Thick Twig-rush	12.38	
SAAKAN0006	Allocasuarina striata	Small Bull Oak	10.69	
SAAKAN0006	Lepidosperma carphoides	Black Rapier-sedge	9.90	
SAAKAN0006	Cyperaceae sp.		9.60	
SAAKAN0006	Banksia ornata	Desert Banksia	9.50	
SAAKAN0006	Hakea rostrata	Beaked Hakea	6.53	
SAAKAN0006	Calytrix tetragona	Common Fringe-myrtle	4.85	
SAAKAN0006	Baeckea ericaea	Mat Baeckea	4.26	
SAAKAN0006	Xanthorrhoea semiplana subsp. tateana (dead)		3.56	
SAAKAN0006	Banksia marginata	Silver Banksia	3.37	
SAAKAN0006	Eucalyptus remota (in canopy sky)	Kangaroo Island Mallee Ash	2.67	
SAAKAN0006	Lepidosperma sp.		2.67	
SAAKAN0006	Hibbertia devitata		2.57	
SAAKAN0006	Petrophila multisecta		2.18	
SAAKAN0007	Daviesia asperula subsp. asperula		40.40	
SAAKAN0007	Choretrum glomeratum	Berry Broombush	13.76	

Plot name	Herbarium ID	Common name	Approx. % cover	SA Conservation Code
SAAKAN0007	Eucalyptus cladocalyx	Sugar Gum	13.66	
SAAKAN0007	Eucalyptus diversifolia	Coast Mallee	13.66	
SAAKAN0007	Olearia ramulosa	Oily Bush	11.19	
SAAKAN0007	Hibbertia sericea	Silky Guinea-flower	10.69	
SAAKAN0007	Xanthorrhoea semiplana subsp. tateana		10.69	
SAAKAN0007	Acacia paradoxa	Acacia Hedge	8.61	
SAAKAN0007	Acacia myrtifolia	Myrtle Acacia	7.03	
SAAKAN0007	Spyridium waterhousei		6.14	
SAAKAN0007	Prostanthera spinosa	Spiny Mint-bush	4.95	
SAAKAN0007	Ixodia achillaeoides subsp. alata		4.16	
SAAKAN0007	Leucopogon rufur		3.86	
SAAKAN0007	Petrophile multisecta		3.27	
SAAKAN0007	Boronia edwardsii	Island Boronia	3.27	
SAAKAN0007	Calytrix glaberrima		2.38	
SAAKAN0007	Adenanthos macropodianus		2.28	
SAAKAN0007	Lepidosperma viscidum	Sticky Sword-sedge	1.88	
SAAKAN0007	Eucalyptus cosmophylla	Bog Gum	1.88	
SAAKAN0007	Lasiopetalum sp. Cordate-leaved (H.P Vonow 810)		1.78	
SAAKAN0007	Eucalyptus cladocalyx (in canopy sky)	Sugar Gum	1.58	
SAAKAN0007	Hakea rostrata	Beaked Hakea	1.49	
SAAKAN0007	Hibbertia virgata	Guinea-flower	1.19	
SAAKAN0007	Boronia filifolia	Slender Boronia	1.09	
SAAKAN0008	Calytrix tetragona	Common Fringe-myrtle	28.71	
SAAKAN0008	Hypolaena fastigiata	Tassel Rope-rush	17.52	
SAAKAN0008	Eucalyptus diversifolia	Coast Mallee	17.23	
SAAKAN0008	Xanthorrhoea semiplana subsp. tateana		16.04	
SAAKAN0008	Thryptomene ericaea		13.86	
SAAKAN0008	Leptospermum myrsinoides	Heath Teatree	8.32	
SAAKAN0008	Eucalyptus albopurpurea	Coffin Bay mallee	7.82	
SAAKAN0008	Stenanthera conostephioides		7.62	
SAAKAN0008	Banksia marginata	Silver Banksia	6.63	
SAAKAN0008	Baeckea ericaea	Mat Baeckea	5.05	
SAAKAN0008	Eucalyptus cosmophylla	Bog Gum	4.26	
SAAKAN0008	Adenanthos macropodias		4.26	
SAAKAN0008	Hibbertia devitata		4.26	
SAAKAN0008	Acrotriche depressa	Wiry Ground-berry	3.86	
SAAKAN0008	Petrophile multisecta		3.86	
SAAKAN0008	Allocasuarina striata	Small Bull Oak	2.77	
SAAKAN0008	Melaleuca uncinata	Broom Bush	2.77	
SAAKAN0009	Logania ovata	Oval-leaf Logania	37.82	
SAAKAN0009	Pultenaea acerosa	Bristly Bush-pea	17.92	
SAAKAN0009	Eucalyptus albopurpurea	Coffin Bay mallee	17.43	
SAAKAN0009	Eucalyptus diversifolia	Coast Mallee	17.33	
SAAKAN0009	pultenaea tenuifolia		6.44	
SAAKAN0009	Gahnia deusta	Heathy Saw-sedge	4.26	
SAAKAN0009	Acacia triquetra		3.76	
SAAKAN0009	Spyridium nitidum	Shining Spyridium	3.66	
SAAKAN0009	Goodenia varia	Sticky Goodenia	3.47	
SAAKAN0009	Spyridium phylicoides		3.27	
SAAKAN0009	Grevillea pauciflora		2.87	
SAAKAN0009	Melaleuca lanceolata	Moonah	2.67	
SAAKAN0009	Choretrum glomeratum	Berry Broombush	2.18	

Plot name	Herbarium ID	Common name	Approx. % cover	SA Conservation Code
SAAKAN0009	Eucalyptus diversifolia (in canopy sky)	Coast Mallee	2.08	
SAAKAN0009	Lepidosperma viscidum	Sticky Sword-sedge	1.78	
SAAKAN0009	Eucalyptus rugosa	Kingscote mallee	1.68	
SAAKAN0009	Dodonaea humilis		1.68	
SAAKAN0009	Hakea vittata	Hooked Needlewood	1.68	
SAAKAN0009	Xanthorrhoea semiplana subsp. tateana		1.58	
SAAKAN0009	Boronia filifolia	Slender Boronia	1.29	
SAAKAN0009	Hibbertia virgata	Guinea-flower	1.19	
SAAKAN0010	Melaleuca lanceolata	Moonah	23.27	
SAAKAN0010	Eucalyptus diversifolia	Coast Mallee	21.68	
SAAKAN0010	Eucalyptus rugosa	Kingscote mallee	11.98	
SAAKAN0010	Melaleuca gibbosa	Slender Honey-myrtle	11.88	
SAAKAN0010	Eucalyptus albopurpurea	Coffin Bay mallee	9.90	
SAAKAN0010	Acacia triquetra		8.71	
SAAKAN0010	Hibbertia pallidiflora	Pale Guinea-flower	7.43	
SAAKAN0010	Orthrosanthus multiflorus	Many-flowered Orthrosanthus	7.03	
SAAKAN0010	Dodonaea humilis		5.35	
SAAKAN0010	Logania ovata	Oval-leaf Logania	3.76	
SAAKAN0011	Eucalyptus cneorifolia	Red Mallee	78.91	
SAAKAN0011	Lepidosperma viscidum	Sticky Sword-sedge	13.56	
SAAKAN0011	Eucalyptus cneorifolia (in canopy sky)	Red Mallee	5.64	
SAAKAN0011	Aira cupaniana	Silvery Hair Grass	3.37	
SAAKAN0011	Acacia paradoxa	Acacia Hedge	3.27	
SAAKAN0011	Correa reflexa var. insularis		2.97	
SAAKAN0011	*Asparagus asparagoides	Bridal Creeper	2.18	
SAAKAN0011	Eucalyptus cneorifolia (dead)	Red Mallee	2.18	
SAAKAN0012	Eucalyptus diversifolia	Coast Mallee	30.30	
SAAKAN0012	Melaleuca gibbosa	Slender Honey-myrtle	18.71	
SAAKAN0012	Acrotriche patula		13.27	
SAAKAN0012	Lasiopetalum discolor	Coast Velvetbush	11.09	
SAAKAN0012	Melaleuca lanceolata	Moonah	10.99	
SAAKAN0012	Leucopogon parviflorus	Coast Beard heath	6.34	
SAAKAN0012	Acrotriche cordata	Coast Ground Berry	5.64	
SAAKAN0012	Acacia triquetra		4.46	
SAAKAN0012	Correa sp.	Australian fuchsia	3.27	
SAAKAN0012	Pultenaea acerosa	Bristly Bush-pea	2.97	
SAAKAN0012	Beyeria lechenaultii	Pale Turpentine Bush	2.18	
SAAKAN0012	Melaleuca gibbosa (dead)	Slender Honey-myrtle	1.98	
SAAKAN0012	Olearia ramulosa	Oily Bush	1.49	
SAAKAN0012	Cassytha pubescens	Devil's Twine	1.49	
SAAKAN0012	Lasiopetalum schulzenii	Drooping Velvet-bush	1.29	
SAAKAN0012	Pomaderris obcordata	Pimelea Pomaderris	1.09	

*Denotes introduced species

Appendix 4. Substrate and growth form

Plot Name	Date	Substrate	Approx. % substrate
SAAKAN0001	19-Oct-18	Leaf litter	86.93
SAAKAN0001	19-Oct-18	Bare ground	8.91
SAAKAN0001	19-Oct-18	Coarse woody debris	3.76
SAAKAN0001	19-Oct-18	Cryptogam	0.40

Plot Name	Date	Growth Form	Approx. % of Growth Forms
SAAKAN0001	19-Oct-18	Tree Mallee	36.10
SAAKAN0001	19-Oct-18	Shrub	19.76
SAAKAN0001	19-Oct-18	Sedge	14.13
SAAKAN0001	19-Oct-18	Grass-tree	10.11
SAAKAN0001	19-Oct-18	Forb	8.31
SAAKAN0001	19-Oct-18	Shrub (dead)	2.95
SAAKAN0001	19-Oct-18	Tree/Palm	2.88
SAAKAN0001	19-Oct-18	Shrub Mallee	1.94
SAAKAN0001	19-Oct-18	Heath-shrub	1.61
SAAKAN0001	19-Oct-18	Tree Mallee (dead)	1.47
SAAKAN0001	19-Oct-18	Vine	0.54
SAAKAN0001	19-Oct-18	Tree/Palm (dead)	0.20

Plot Name	Date	Substrate	Approx. % substrate
SAAKAN0002	20-Oct-18	Leaf litter	79.80
SAAKAN0002	20-Oct-18	Bare ground	9.90
SAAKAN0002	20-Oct-18	Cryptogam	6.24
SAAKAN0002	20-Oct-18	Gravel	2.38
SAAKAN0002	20-Oct-18	Coarse woody debris	1.09
SAAKAN0002	20-Oct-18	Rock	0.50
SAAKAN0002	20-Oct-18	Unknown	0.10

Plot Name	Date	Growth Form	Approx. % of Growth Forms
SAAKAN0002	20-Oct-18	Shrub	51.83
SAAKAN0002	20-Oct-18	Grass-tree	16.08
SAAKAN0002	20-Oct-18	Tree/Palm	10.38
SAAKAN0002	20-Oct-18	Tree Mallee	9.14
SAAKAN0002	20-Oct-18	Tussock grass	4.17
SAAKAN0002	20-Oct-18	Forb	3.87
SAAKAN0002	20-Oct-18	Fern	2.05
SAAKAN0002	20-Oct-18	Shrub (dead)	1.02
SAAKAN0002	20-Oct-18	Shrub Mallee	0.51
SAAKAN0002	20-Oct-18	Vine	0.51
SAAKAN0002	20-Oct-18	Heath-shrub	0.29
SAAKAN0002	20-Oct-18	Tree Mallee (dead)	0.07
SAAKAN0002	20-Oct-18	Grass-tree (dead)	0.07

Plot Name	Date	Substrate	Approx. % substrate
SAAKAN0003	21-Oct-18	Leaf litter	80.20
SAAKAN0003	21-Oct-18	Bare ground	9.80
SAAKAN0003	21-Oct-18	Gravel	4.55
SAAKAN0003	21-Oct-18	Coarse woody debris	3.17
SAAKAN0003	21-Oct-18	Cryptogam	1.68
SAAKAN0003	21-Oct-18	Rock	0.59

Plot Name	Date	Growth Form	Approx. % of Growth Forms
SAAKAN0003	21-Oct-18	Tree/Palm	46.07
SAAKAN0003	21-Oct-18	Shrub	22.12
SAAKAN0003	21-Oct-18	Grass-tree	9.13
SAAKAN0003	21-Oct-18	Bryophyte	6.65
SAAKAN0003	21-Oct-18	Tussock grass	5.13
SAAKAN0003	21-Oct-18	Forb	4.33
SAAKAN0003	21-Oct-18	Heath-shrub	2.56
SAAKAN0003	21-Oct-18	Tree Mallee	1.60
SAAKAN0003	21-Oct-18	Shrub (dead)	0.88
SAAKAN0003	21-Oct-18	Vine	0.48
SAAKAN0003	21-Oct-18	Tree/Palm (dead)	0.32
SAAKAN0003	21-Oct-18	Shrub Mallee	0.32
SAAKAN0003	21-Oct-18	Heath-shrub (dead)	0.24

SAAKAN0003	21-Oct-18	Grass-tree (dead)	0.08
SAAKAN0003	21-Oct-18	Tree Mallee (dead)	0.08

Plot Name	Date	Substrate	Approx. % substrate
SAAKAN0004	22-Oct-18	Leaf litter	74.55
SAAKAN0004	22-Oct-18	Gravel	11.49
SAAKAN0004	22-Oct-18	Cryptogam	9.50
SAAKAN0004	22-Oct-18	Bare ground	3.66
SAAKAN0004	22-Oct-18	Coarse woody debris	0.79

Plot Name	Date	Growth Form	Approx. % of Growth Forms
SAAKAN0004	22-Oct-18	Shrub	57.71
SAAKAN0004	22-Oct-18	Grass-tree	18.01
SAAKAN0004	22-Oct-18	Tree Mallee	10.14
SAAKAN0004	22-Oct-18	Tree/Palm	9.30
SAAKAN0004	22-Oct-18	Heath-shrub	2.97
SAAKAN0004	22-Oct-18	Shrub Mallee	0.65
SAAKAN0004	22-Oct-18	Forb	0.52
SAAKAN0004	22-Oct-18	Sedge	0.26
SAAKAN0004	22-Oct-18	Shrub (dead)	0.19
SAAKAN0004	22-Oct-18	Tree Mallee (dead)	0.13
SAAKAN0004	22-Oct-18	Vine	0.13

Plot Name	Date	Substrate	Approx. % substrate
SAAKAN0005	23-Oct-18	Leaf litter	86.44
SAAKAN0005	23-Oct-18	Bare ground	4.46
SAAKAN0005	23-Oct-18	Gravel	4.36
SAAKAN0005	23-Oct-18	Cryptogam	3.76
SAAKAN0005	23-Oct-18	Coarse woody debris	0.59
SAAKAN0005	23-Oct-18	Unknown	0.30
SAAKAN0005	23-Oct-18	Outcrop	0.10

Plot Name	Date	Growth Form	Approx. % of Growth Forms
SAAKAN0005	23-Oct-18	Shrub	66.47
SAAKAN0005	23-Oct-18	Sedge	14.38
SAAKAN0005	23-Oct-18	Tree Mallee	9.20
SAAKAN0005	23-Oct-18	Grass-tree	5.27
SAAKAN0005	23-Oct-18	Shrub (dead)	1.14
SAAKAN0005	23-Oct-18	Vine	1.14
SAAKAN0005	23-Oct-18	Tree/Palm	1.14
SAAKAN0005	23-Oct-18	Forb	0.60
SAAKAN0005	23-Oct-18	Heath-shrub	0.35
SAAKAN0005	23-Oct-18	Tree Mallee (dead)	0.20
SAAKAN0005	23-Oct-18	Tree/Palm (dead)	0.10

Plot Name	Date	Substrate	Approx. % substrate
SAAKAN0006	24-Oct-18	Leaf litter	86.04
SAAKAN0006	24-Oct-18	Cryptogam	6.24
SAAKAN0006	24-Oct-18	Bare ground	5.15
SAAKAN0006	24-Oct-18	Coarse woody debris	1.29
SAAKAN0006	24-Oct-18	Gravel	0.79
SAAKAN0006	24-Oct-18	Unknown	0.40
SAAKAN0006	24-Oct-18	Rock	0.10

Plot Name	Date	Growth Form	Approx. % of Growth Forms
SAAKAN0006	24-Oct-18	Shrub	38.63
SAAKAN0006	24-Oct-18	Sedge	26.91
SAAKAN0006	24-Oct-18	Tree Mallee	16.50
SAAKAN0006	24-Oct-18	Grass-tree	5.94
SAAKAN0006	24-Oct-18	Shrub (dead)	3.78
SAAKAN0006	24-Oct-18	Tree/Palm	2.16
SAAKAN0006	24-Oct-18	Forb	1.85
SAAKAN0006	24-Oct-18	Grass-tree (dead)	1.39
SAAKAN0006	24-Oct-18	Tussock grass	1.31
SAAKAN0006	24-Oct-18	Tree Mallee (dead)	0.62
SAAKAN0006	24-Oct-18	Vine	0.46
SAAKAN0006	24-Oct-18	Tree/Palm (dead)	0.15
SAAKAN0006	24-Oct-18	Shrub Mallee	0.15

Plot Name	Date	Substrate	Approx. % substrate
SAAKAN0007	25-Oct-18	Leaf litter	79.50
SAAKAN0007	25-Oct-18	Bare ground	14.85
SAAKAN0007	25-Oct-18	Cryptogam	3.47
SAAKAN0007	25-Oct-18	Coarse woody debris	1.98
SAAKAN0007	25-Oct-18	Gravel	0.20

Plot Name	Date	Growth Form	Approx. % of Growth Forms
SAAKAN0007	25-Oct-18	Shrub	71.11
SAAKAN0007	25-Oct-18	Shrub Mallee	10.71
SAAKAN0007	25-Oct-18	Forb	6.00
SAAKAN0007	25-Oct-18	Tree Mallee	4.41
SAAKAN0007	25-Oct-18	Grass-tree	3.30
SAAKAN0007	25-Oct-18	Tree/Palm	2.94
SAAKAN0007	25-Oct-18	Shrub (dead)	0.55
SAAKAN0007	25-Oct-18	Sedge	0.49
SAAKAN0007	25-Oct-18	Vine	0.24
SAAKAN0007	25-Oct-18	Tree/Palm (dead)	0.12
SAAKAN0007	25-Oct-18	Tree Mallee (dead)	0.06
SAAKAN0007	25-Oct-18	Heath-shrub	0.06

Plot Name	Date	Substrate	Approx. % substrate
SAAKAN0008	26-Oct-18	Leaf litter	89.31
SAAKAN0008	26-Oct-18	Bare ground	6.24
SAAKAN0008	26-Oct-18	Cryptogam	4.36
SAAKAN0008	26-Oct-18	Coarse woody debris	0.10

Plot Name	Date	Growth Form	Approx. % of Growth Forms
SAAKAN0008	26-Oct-18	Shrub	57.72
SAAKAN0008	26-Oct-18	Shrub Mallee	15.44
SAAKAN0008	26-Oct-18	Sedge	12.04
SAAKAN0008	26-Oct-18	Grass-tree	5.10
SAAKAN0008	26-Oct-18	Heath-shrub	4.85
SAAKAN0008	26-Oct-18	Tree Mallee	3.02
SAAKAN0008	26-Oct-18	Shrub (dead)	0.63
SAAKAN0008	26-Oct-18	Tree/Palm	0.50
SAAKAN0008	26-Oct-18	Vine	0.38
SAAKAN0008	26-Oct-18	Shrub Mallee (dead)	0.13
SAAKAN0008	26-Oct-18	Sedge (dead)	0.06
SAAKAN0008	26-Oct-18	Tree/Palm (dead)	0.06
SAAKAN0008	26-Oct-18	Forb	0.06

Plot Name	Date	Substrate	Approx. % substrate
SAAKAN0009	27-Oct-18	Leaf litter	69.41
SAAKAN0009	27-Oct-18	Cryptogam	12.97
SAAKAN0009	27-Oct-18	Bare ground	9.90
SAAKAN0009	27-Oct-18	Outcrop	3.07
SAAKAN0009	27-Oct-18	Rock	2.18
SAAKAN0009	27-Oct-18	Coarse woody debris	1.29
SAAKAN0009	27-Oct-18	Gravel	1.19

Plot Name	Date	Growth Form	Approx. % of Growth Forms
SAAKAN0009	27-Oct-18	Shrub	67.37
SAAKAN0009	27-Oct-18	Tree Mallee	14.59
SAAKAN0009	27-Oct-18	Shrub Mallee	11.49
SAAKAN0009	27-Oct-18	Sedge	4.30
SAAKAN0009	27-Oct-18	Forb	0.85
SAAKAN0009	27-Oct-18	Grass-tree	0.56
SAAKAN0009	27-Oct-18	Vine	0.42
SAAKAN0009	27-Oct-18	Shrub (dead)	0.28
SAAKAN0009	27-Oct-18	Tree Mallee (dead)	0.14

Plot Name	Date	Substrate	Approx. % substrate
SAAKAN0010	28-Oct-18	Leaf litter	67.33
SAAKAN0010	28-Oct-18	Cryptogam	16.04

Plot Name	Date	Growth Form	Approx. % of Growth Forms
SAAKAN0010	28-Oct-18	Shrub	54.29
SAAKAN0010	28-Oct-18	Shrub Mallee	20.28

SAAKAN0010	28-Oct-18	Coarse woody debris	6.83
SAAKAN0010	28-Oct-18	Bare ground	6.44
SAAKAN0010	28-Oct-18	Outcrop	1.68
SAAKAN0010	28-Oct-18	Unknown	0.89
SAAKAN0010	28-Oct-18	Rock	0.59
SAAKAN0010	28-Oct-18	Gravel	0.20

SAAKAN0010	28-Oct-18	Tree Mallee	13.25
SAAKAN0010	28-Oct-18	Forb	8.67
SAAKAN0010	28-Oct-18	Heath-shrub	1.47
SAAKAN0010	28-Oct-18	Shrub (dead)	0.57
SAAKAN0010	28-Oct-18	Tussock grass	0.41
SAAKAN0010	28-Oct-18	Tree/Palm	0.41
SAAKAN0010	28-Oct-18	Tree Mallee (dead)	0.33
SAAKAN0010	28-Oct-18	Shrub Mallee (dead)	0.25
SAAKAN0010	28-Oct-18	Vine	0.08

Plot Name	Date	Substrate	Approx. % substrate
SAAKAN0011	29-Oct-18	Leaf litter	86.04
SAAKAN0011	29-Oct-18	Rock	4.36
SAAKAN0011	29-Oct-18	Cryptogam	4.36
SAAKAN0011	29-Oct-18	Bare ground	2.08
SAAKAN0011	29-Oct-18	Outcrop	1.09
SAAKAN0011	29-Oct-18	Coarse woody debris	1.09
SAAKAN0011	29-Oct-18	Unknown	0.79
SAAKAN0011	29-Oct-18	Gravel	0.20

Plot Name	Date	Growth Form	Approx. % of Growth Forms
SAAKAN0011	29-Oct-18	Tree Mallee	45.93
SAAKAN0011	29-Oct-18	Shrub	28.95
SAAKAN0011	29-Oct-18	Sedge	11.63
SAAKAN0011	29-Oct-18	Tussock grass	5.69
SAAKAN0011	29-Oct-18	Shrub (dead)	2.72
SAAKAN0011	29-Oct-18	Forb	1.95
SAAKAN0011	29-Oct-18	Vine	1.95
SAAKAN0011	29-Oct-18	Tree Mallee (dead)	1.02
SAAKAN0011	29-Oct-18	Tree/Palm	0.08
SAAKAN0011	29-Oct-18	Fern	0.08

Plot Name	Date	Substrate	Approx. % substrate
SAAKAN0012	30-Oct-18	Leaf litter	85.94
SAAKAN0012	30-Oct-18	Rock	4.36
SAAKAN0012	30-Oct-18	Cryptogam	3.66
SAAKAN0012	30-Oct-18	Outcrop	2.67
SAAKAN0012	30-Oct-18	Bare ground	2.28
SAAKAN0012	30-Oct-18	Gravel	1.09

Plot Name	Date	Growth Form	Approx. % of Growth Forms
SAAKAN0012	30-Oct-18	Shrub	50.24
SAAKAN0012	30-Oct-18	Shrub Mallee	24.76
SAAKAN0012	30-Oct-18	Heath-shrub	18.61
SAAKAN0012	30-Oct-18	Shrub (dead)	2.43
SAAKAN0012	30-Oct-18	Forb	1.70
SAAKAN0012	30-Oct-18	Vine	1.21
SAAKAN0012	30-Oct-18	Heath-shrub (dead)	0.57
SAAKAN0012	30-Oct-18	Shrub Mallee (dead)	0.32
SAAKAN0012	30-Oct-18	Forb (dead)	0.16

Appendix 5. Structural summary

Plot name	Date	Structural description
SAAKAN0001	19-Oct-18	Eucalyptus baxteri low open forest with Eucalyptus obliqua. A mid-storey is a mix of Xanthorrhoea semiplana subsp. tateana, Allocasuarina striata and Eucalyptus cosmophylla. Ground storey is dominated by Lepidosperma viscidum and Hibbertia devitata with Lepidosperma semiteres, and Acrotriche depressa
SAAKAN0002	20-Oct-18	Melaleuca uncinata, Xanthorrhoea semiplana subsp. tateana, Allocasuarina verticillata, Eucalyptus odorata mixed tall shrubland with emergent Eucalyptus cladocalyx with some scattered Acacia paradoxa. Ground layer is sparse forbs, ferns and grasses - Cheilanthes austrotenuifolia, Ranunculus sessiliflorus var. sessiliflorus and Galium murale
SAAKAN0003	21-Oct-18	Eucalyptus cladocalyx mid open forest with Allocasuarina verticillata, Eucalyptus fasciculosa and some Eucalyptus cosmophylla. Open mid-storey dominated by Xanthorrhoea semiplana subsp. tateana with scattered Acacia paradoxa and Melaleuca uncinata. A ground layer dominated by Prostanthera spinosa, with Microlaena stipoides var. stipoides and Hydrocotyle foveolata and other scattered grasses and annual forbs.
SAAKAN0004	22-Oct-18	Eucalyptus baxteri and Eucalyptus obliqua low woodland with mid layer of Eucalyptus cosmophylla, Banksia marginata, Banksia ornata, Hakea rostrata, Xanthorrhoea semiplana subsp. tateana as well as Leptospermum myrsinoides and ground shrub layer of Leucopogon concurvus, Isopogon ceratophyllus, Petrophila multisecta, Tetratheca insularis, Boronia edwardsii, Dillwynia sericea, Hibbertia devitata as well as Daviesia asperula subsp. asperula.
SAAKAN0005	23-Oct-18	Eucalyptus baxteri and Eucalyptus remota low open woodland with a mid layer of Banksia ornata, Hakea rostrata, Xanthorrhoea semiplana subsp. tateana as well as Allocasuarina striata and a lower shrub layer of Pultenaea tenuifolia, Isopogon ceratophyllus, Petrophila multisecta, Leucopogon concurvus, Hibbertia platyphylla subsp. haematuria, Dillwynia sericea, Daviesia brevifolia, Lepidosperma semiteres, Drosera macrantha subsp. planchonii. as well as grasses.
SAAKAN0006	24-Oct-18	Eucalyptus remota and Banksia ornata low mallee woodland to tall shrubland with Allocasuarina striata and Hakea rostrata. Mid storey of Xanthorrhoea semiplana subsp. tateana, juvenile E. remota and Allocasuarina striata, Banksia spp., Pultenaea sp., Calytrix tetragona and Hibbertia devitata. Ground layer dominated by sedges- Caustis pentandra and Lepidosperma carphoides, Lepidosperma spp. and some Baeckea ericaea.
SAAKAN0007	25-Oct-18	Eucalyptus cladocalyx and Eucalyptus remota open low mallee woodland with a upper-mid story of Acacia paradoxa and Hakea carinata and a lower-mid story of Choretum gloeratum Leucopogon rufur, Daviesia asperula subsp. asperula, Spyridium waterhousei and Olearia ramulosa. The ground layer is dominated by a prostrate Astroloma sp., Prostanthera spinosa and Calytrix glaberrima.
SAAKAN0008	26-Oct-18	Eucalyptus diversifolia and Eucalyptus albopurpurea open mallee woodland with mid layer of Banksia marginata, Melaleuca uncinata, Leptospermum myrsinoides as well as Allocasuarina striata and a low shrub layer of Calytrix tetragona, Thryptomene ericaea, Stenanthera conostephioides, Hibbertia devitata, Petrophile multisecta and Boronia filifolia. The ground layer is patchily covered with litter and is dominated by Hypolaena fastigiata.
SAAKAN0009	27-Oct-18	Eucalyptus albopurpurea, Eucalyptus diversifolia and Eucalyptus rugosa open mallee woodland with mid layer of Melaleuca lanceolata as well as juvenile Eucalyptus and low shrub layer of Logania ovata , Hakea vittata, Pultenaea acerosa, Spyridium nitidum ,Spyridium phylicoides as well as Gahnia deusta.
SAAKAN0010	28-Oct-18	Eucalyptus albopurpurea, Eucalyptus diversifolia, Eucalyptus rugosa and Melaleuca lanceolata mixed woodland with mid layer of Acacia triquetra, juvenile Eucalyptus and Choretrum glomeratum and a ground shrub layer of Dodonaea humilis, Correa sp. as well as Orthrosanthus multiflorus.
SAAKAN0011	29-Oct-18	Eucalyptus cneorifolia tall mallee woodland with shrubby pockets of Acacia paradoxa, Correa reflexa var. insularis and Thryptomene ericaea. The woodland ground storey is composed of Asparagus asparagoides, Lepidosperma viscidum, Microlaena stipoides var. stipoides, Austrostipa hemipogon, Bromus hordeaceus, Cheilanthes austrotenuifolia as well as other grasses and forbs.
SAAKAN0012	30-Oct-18	Eucalyptus diversifolia, Melaleuca gibbosa and Melaleuca lanceolata heath land with under story of Lasiopetalum discolor, Leucopogon parviflorus and Acrotriche patula.

Appendix 6. Soil classification

Plot name	Upper depth (m)	Lower depth (m)	Texture	Colour when wet	pH	EC (dS/m)	Effervescence
SAAKAN0001	0	0.1	Sandy loam	7.5YR 5/6	7	0.06	Non-calcareous
SAAKAN0001	0.1	0.2	Sandy clay loam	7.5YR 6/6	6.2	0.05	Non-calcareous
SAAKAN0001	0.2	0.3	Sandy clay loam	7.5YR 6/6	6.2	0.04	Non-calcareous
SAAKAN0001	0.3	0.4	Sandy clay loam	7.5YR 6/6	6.1	0.06	Non-calcareous
SAAKAN0001	0.4	0.5	Clay loam	7.5YR 6/8	6	0.04	Non-calcareous
SAAKAN0001	0.5	0.6	Clay loam	7.5YR 6/8	6	0.05	Non-calcareous
SAAKAN0001	0.6	0.7	Clay loam	7.5YR 6/8	5.9	0.06	Non-calcareous
SAAKAN0002	0	0.05	Sandy loam	7.5YR 5/4	5.8	0.06	Non-calcareous
SAAKAN0002	0.05	0.3	Loam	7.5YR 6/4	5	0.18	Non-calcareous
SAAKAN0002	0.3	0.5	Clay loam	7.5YR 6/6	5.6	0.5	Non-calcareous
SAAKAN0003	0	0.05	Sandy loam	5YR 4/4	5.2	0.03	Non-calcareous
SAAKAN0003	0.05	0.1	Sandy loam	7.5YR 4/6	5.6	0.02	Non-calcareous
SAAKAN0003	0.1	0.2	Sandy loam	7.5YR 4/6	5.4	0.03	Non-calcareous
SAAKAN0003	0.2	0.4	Sandy loam	7.5YR 5/8	5.7	0.02	Non-calcareous
SAAKAN0003	0.4	0.5	Sandy loam	5YR 5/6	5.5	0.02	Non-calcareous
SAAKAN0003	0.5	0.6	Medium clay	5YR 4/6	5.6	0.02	Non-calcareous
SAAKAN0003	0.6	0.65	Medium clay	5YR 4/6	5.6	0.04	Non-calcareous
SAAKAN0004	0	0.05	Sandy loam	10YR 6/3	6.1	0.01	Non-calcareous
SAAKAN0004	0.05	0.2	Loam	7.5YR 6/4	5.7	0.01	Non-calcareous
SAAKAN0004	0.2	0.3	Clay loam	7.5YR 6/4	5.9	0.01	Non-calcareous
SAAKAN0004	0.3	0.4	Clay loam	10YR 7/4	5.6	0.01	Non-calcareous
SAAKAN0004	0.4	0.5	Light clay	10YR 6/6	5.5	0.02	Non-calcareous
SAAKAN0004	0.5	0.6	Light clay	10YR 7/8	5.3	0.03	Non-calcareous
SAAKAN0004	0.6	0.7	Light clay	10YR 7/8	5.3	0.01	Non-calcareous
SAAKAN0004	0.7	0.8	Light clay	10YR 7/8	5.3	0.02	Non-calcareous
SAAKAN0004	0.8	0.9	Light clay	10YR 7/6	5.1	0.02	Non-calcareous
SAAKAN0004	0.9	1	Light clay	10YR 7/6	5.2	0.02	Non-calcareous
SAAKAN0005	0	0.05	Sandy loam	10YR 5/3	6.4	0.02	Non-calcareous
SAAKAN0005	0.05	0.1	Sandy loam	10YR 5/6	6.1	0.02	Non-calcareous
SAAKAN0005	0.1	0.2	Clayey sand	10YR 6/6	5.8	0.01	Non-calcareous
SAAKAN0005	0.2	0.3	Clayey sand	10YR 6/6	6.1	0.01	Non-calcareous
SAAKAN0005	0.3	0.4	Clayey sand	10YR 6/6	6.1	0.01	Non-calcareous
SAAKAN0005	0.4	0.5	Clayey sand	10YR 6/6	5.6	0.01	Non-calcareous
SAAKAN0006	0	0.1	Sandy loam	10YR 6/3	5.5	0.02	Non-calcareous
SAAKAN0006	0.1	0.2	Sandy loam	10YR 6/4	5.6	0.03	Non-calcareous
SAAKAN0006	0.2	0.3	Sandy clay loam	10YR 7/4	6	0.01	Non-calcareous
SAAKAN0006	0.3	0.4	Clay loam sandy	10YR 7/4	5.6	0.03	Non-calcareous
SAAKAN0006	0.4	0.5	Clay loam sandy	10YR 7/4	5.4	0.02	Non-calcareous
SAAKAN0006	0.5	0.6	Clay loam sandy	10YR 8/4	5.4	0.02	Non-calcareous

Plot name	Upper depth (m)	Lower depth (m)	Texture	Colour when wet	pH	EC (dS/m)	Effervescence
SAAKAN0006	0.6	0.7	Clay loam sandy	10YR 8/2	5.4	0.03	Non-calcareous
SAAKAN0006	0.7	0.8	Clay loam sandy	10YR 8/3	5.2	0.03	Non-calcareous
SAAKAN0006	0.8	0.9	Clay loam sandy	7.5YR 8/2	5.1	0.02	Non-calcareous
SAAKAN0006	0.9	1	Clay loam sandy	7.5YR 8/2	5.2	0.01	Non-calcareous
SAAKAN0007	0	0.1	Sand	7.5YR 6/2	6.8	0.03	Non-calcareous
SAAKAN0007	0.1	0.2	Sand	7.5YR 6/2	7.1	0.02	Non-calcareous
SAAKAN0007	0.2	0.4	Sand	10YR 7/4	6.6	0.01	Non-calcareous
SAAKAN0007	0.4	0.6	Sand	10YR 7/4	6.2	0.04	Non-calcareous
SAAKAN0007	0.6	0.8	Sand	10YR 7/6	6.4	0.01	Non-calcareous
SAAKAN0007	0.8	0.85	Light medium clay	10YR 5/6	5.5	0.14	Non-calcareous
SAAKAN0008	0	0.1	Sand	10YR 5/2	5.5	0.01	Non-calcareous
SAAKAN0008	0.1	0.2	Sand	10YR 5/2	5.8	0	Non-calcareous
SAAKAN0008	0.2	0.3	Sand	10YR 6/2	5.2	0.02	Non-calcareous
SAAKAN0008	0.3	0.4	Sand	10YR 6/2	5.5	0.01	Non-calcareous
SAAKAN0008	0.4	0.5	Sand	10YR 7/2	5.8	0.01	Non-calcareous
SAAKAN0008	0.5	0.6	Sand	10YR 7/2	6.1	0.01	Non-calcareous
SAAKAN0008	0.6	0.7	Sand	10YR 7/3	6	0.02	Non-calcareous
SAAKAN0008	0.7	0.8	Sand	10YR 7/3	6	0.02	Non-calcareous
SAAKAN0008	0.8	0.9	Sand	10YR 7/6	6.2	0.01	Non-calcareous
SAAKAN0008	0.9	1	Sand	10YR 7/6	6.1	0.02	Non-calcareous
SAAKAN0009	0	0.1	Sand	10YR 5/6	7.2	0.03	Non-calcareous
SAAKAN0009	0.1	0.2	Sand	10YR 6/6	7.3	0.02	Non-calcareous
SAAKAN0009	0.2	0.3	Sand	10YR 6/8	7.3	0.04	Non-calcareous
SAAKAN0009	0.3	0.35	Sand	10YR 6/8	7.9	0.02	Slightly calcareous
SAAKAN0010	0	0.1	Sand	10YR 4/3	8.2	0.06	Highly calcareous
SAAKAN0010	0.1	0.2	Sand	10YR 4/3	8.6	0.04	Highly calcareous
SAAKAN0010	0.2	0.3	Sand	10YR 5/2	8.9	0.09	Very highly calcareous
SAAKAN0010	0.3	0.4	Sand	10YR 6/3	8.3	0.17	Very highly calcareous
SAAKAN0010	0.4	0.5	Sand	10YR 6/3	8.9	0.09	Very highly calcareous
SAAKAN0010	0.5	0.6	Sand	10YR 6/3	8.7	0.1	Very highly calcareous
SAAKAN0010	0.6	0.7	Sand	10YR 6/3	8.6	0.06	Very highly calcareous
SAAKAN0010	0.7	0.8	Sand	10YR 7/4	8.7	0.05	Very highly calcareous
SAAKAN0010	0.8	0.9	Sand	10YR 7/4	9	0.05	Very highly calcareous
SAAKAN0010	0.9	1	Sand	10YR 7/4	9	0.06	Very highly calcareous
SAAKAN0011	0	0.05	Loam	10YR 5/3	5.7	0.03	Non-calcareous
SAAKAN0011	0.05	0.15	Loam	10YR 5/3	6	0.04	Non-calcareous
SAAKAN0011	0.15	0.25	Clay loam	10YR 5/4	6.4	0.06	Non-calcareous
SAAKAN0011	0.25	0.35	Clay loam	10YR 5/4	6.6	0.16	Non-calcareous
SAAKAN0011	0.35	0.45	Light clay	10YR 5/3	6.5	0.29	Non-calcareous

Plot name	Upper depth (m)	Lower depth (m)	Texture	Colour when wet	pH	EC (dS/m)	Effervescence
SAAKAN0011	0.45	0.55	Light clay	2.5Y 4/4	6.6	0.65	Non-calcareous
SAAKAN0011	0.55	0.65	Light clay	2.5Y 4/3	6.8	0.58	Non-calcareous
SAAKAN0011	0.65	0.75	Light clay	2.5Y 4/4	7.2	0.93	Non-calcareous
SAAKAN0011	0.75	0.85	Clay loam	2.5Y 4/4	7.6	0.34	Non-calcareous
SAAKAN0011	0.85	1	Clay loam	2.5Y 5/3	7.9	0.25	Non-calcareous
SAAKAN0012	0	0.1	Sandy loam	7.5YR 3/2	8.1	0.18	Highly calcareous
SAAKAN0012	0.1	0.2	Sandy loam	7.5YR 4/2	8.2	0.46	Highly calcareous
SAAKAN0012	0.2	0.3	Sandy loam	7.5YR 5/2	8.1	0.39	Very highly calcareous
SAAKAN0012	0.3	0.4	Sandy loam	7.5YR 5/3	8.3	1	Very highly calcareous

Appendix 7. Soil bulk density

Plot name	Sample depth (m)	Fine earth weight (g)	Fine earth bulk density (g/cm^3)
SAAKAN0001	0.0-0.1	46.6	0.23
SAAKAN0001	0.1-0.2	51	0.27
SAAKAN0002	0.0-0.1	64.7	0.32
SAAKAN0006	0.0-0.1	39.2	0.2
SAAKAN0006	0.1-0.2	106.8	0.51
SAAKAN0007	0.0-0.1	130.1	0.62
SAAKAN0007	0.1-0.2	144.3	0.69
SAAKAN0007	0.2-0.3	142.6	0.68
SAAKAN0008	0.0-0.1	128	0.61
SAAKAN0008	0.1-0.2	83.8	0.4
SAAKAN0008	0.2-0.3	137	0.65
SAAKAN0009	0.0-0.1	97.4	0.47
SAAKAN0010	0.0-0.1	32.3	0.16
SAAKAN0010	0.1-0.2	63.7	0.3
SAAKAN0010	0.2-0.3	94.8	0.45

Appendix 8. Plant collection

Plot name	Family	Herbarium determination	Common Name	SA Conservation Status
SAAKAN0001	Fabaceae	Acacia myrtifolia	Myrtle Acacia	
SAAKAN0001	Ericaceae	Acrotriche depressa	Wiry Ground-berry	
SAAKAN0001	Casuarinaceae	Allocasuarina striata	Small Bull Oak	
SAAKAN0001	Ericaceae	Astroloma conostephioides	Flame Heath	
SAAKAN0001	Proteaceae	Banksia marginata	Silver Banksia	
SAAKAN0001	Pittosporaceae	Billardiera sp.		
SAAKAN0001	Pittosporaceae	Billardiera uniflora		
SAAKAN0001	Rutaceae	Boronia edwardsii	Island Boronia	
SAAKAN0001	Myrtaceae	Calytrix glaberrima		
SAAKAN0001	Lauraceae	Cassytha glabella	Slender Devil's Twine	
SAAKAN0001	Fabaceae	Daviesia asperula subsp. asperula		
SAAKAN0001	Hemerocallidaceae	Dianella brevicaulis	Blueberry Lily	
SAAKAN0001	Droseraceae	Drosera macrantha subsp. planchonii		
SAAKAN0001	Myrtaceae	Eucalyptus baxteri	A Brown Stringybark	
SAAKAN0001	Myrtaceae	Eucalyptus cosmophylla	Bog Gum	
SAAKAN0001	Myrtaceae	Eucalyptus obliqua	Australian Oak	
SAAKAN0001	Haloragaceae	Glischrocaryon behrii	"Golden Pennants"	
SAAKAN0001	Fabaceae	Gompholobium ecostatum	Dwarf Wedge-pea	
SAAKAN0001	Proteaceae	Hakea rostrata	Beaked Hakea	
SAAKAN0001	Dilleniaceae	Hibbertia devitata		
SAAKAN0001	Dilleniaceae	Hibbertia virgata	Guinea-flower	
SAAKAN0001	Proteaceae	Isopogon ceratophyllus	Horny Cone-bush	
SAAKAN0001	Cyperaceae	Lepidosperma canescens	Hoary Rapier-sedge	
SAAKAN0001	Cyperaceae	Lepidosperma semiteres	Wire Rapier-sedge	
SAAKAN0001	Cyperaceae	Lepidosperma viscidum	Sticky Sword-sedge	
SAAKAN0001	Myrtaceae	Melaleuca gibbosa	Slender Honey-myrtle	
SAAKAN0001	Myrtaceae	Melaleuca uncinata	Broom Bush	
SAAKAN0001	Picrodendraceae	Micrantheum demissum		
SAAKAN0001	Rubiaceae	Opercularia turpis	Grey Stinkweed	
SAAKAN0001	Proteaceae	Petrophile multisecta		
SAAKAN0001	Thymelaeaceae	Pimelea macrostegia		
SAAKAN0001	Fabaceae	Platylobium obtusangulum	Common Flat-pea	
SAAKAN0001	Fabaceae	Pultenaea viscidula		
SAAKAN0001	Orchidaceae	Pyrorchis nigricans	Elephant's Ears	
SAAKAN0001	Elaeocarpaceae	Tetratheca insularis		
SAAKAN0001	Asparagaceae	Thysanotus patersonii	Twining Fringe Lily	
SAAKAN0001	Asparagaceae	Thysanotus racemoides		
SAAKAN0001	Violaceae	Viola sieberiana		
SAAKAN0001	Xanthorrhoeaceae	Xanthorrhoea semiplana subsp. tateana		
SAAKAN0002	Asteraceae	*Arctotheca calendula	African Marigold	
SAAKAN0002	Asparagaceae	*Asparagus asparagoides	Bridal Creeper	
SAAKAN0002	Poaceae	*Briza minor	Lesser Quaking Grass	
SAAKAN0002	Poaceae	*Bromus madritensis	Compact Brome	
SAAKAN0002	Rubiaceae	*Galium murale	Small Bedstraw.	
SAAKAN0002	Asteraceae	*Hypochaeris sp.		
SAAKAN0002	Fabaceae	*Trifolium subterraneum	Sub Clover	
SAAKAN0002	Poaceae	*Vulpia myuros f. myuros		
SAAKAN0002	Fabaceae	Acacia paradoxa	Acacia Hedge	
SAAKAN0002	Ericaceae	Acrotriche depressa	Wiry Ground-berry	
SAAKAN0002	Poaceae	Aira cupaniana	Silvery Hair Grass	
SAAKAN0002	Casuarinaceae	Allocasuarina verticillata	Drooping Sheoak	

Plot name	Family	Herbarium determination	Common Name	SA Conservation Status
SAAKAN0002	Poaceae	Austrostipa hemipogon	Half-bearded Spear-grass	
SAAKAN0002	Pittosporaceae	Billardiera uniflora		
SAAKAN0002	Ericaceae	Brachyloma ericoides subsp. bicolor		
SAAKAN0002	Asphodelaceae	Bulbine semibarbata	Leek Lily	
SAAKAN0002	Colchicaceae	Burchardia umbellata	Milkmaids	
SAAKAN0002	Portulacaceae	Calandrinia calyptrata	Pink Purslane	
SAAKAN0002	Myrtaceae	Calytrix tetragona	Common Fringe-myrtle	
SAAKAN0002	Asteraceae	Carduus tenuiflorus	Slender Thistle	
SAAKAN0002	Pteridaceae	Cheilanthes austrotenuifolia	Rock Fern	
SAAKAN0002	Rutaceae	Correa sp.	Australian fuchsia	
SAAKAN0002	Crassulaceae	Crassula closiana	Stalked Crassula	
SAAKAN0002	Crassulaceae	Crassula decumbens	Rufous Stonecrop	
SAAKAN0002	Apiaceae	Daucus glochidiatus	Australian Carrot	
SAAKAN0002	Convolvulaceae	Dichondra repens	Kidney Weed	
SAAKAN0002	Droseraceae	Drosera auriculata	Sundew	
SAAKAN0002	Droseraceae	Drosera macrantha subsp. planchonii		
SAAKAN0002	Poaceae	Ehrharta longiflora	Annual Veldgrass	
SAAKAN0002	Myrtaceae	Eucalyptus cladocalyx	Sugar Gum	
SAAKAN0002	Myrtaceae	Eucalyptus odorata	Mallee Box	
SAAKAN0002	Haloragaceae	Gonocarpus sp.		
SAAKAN0002	Araliaceae	Hydrocotyle comocarpa	Fringe-fruit Pennywort	Rare Species
SAAKAN0002	Araliaceae	hydrocotyle foveolata	Yellow Pennywort	
SAAKAN0002	Cyperaceae	Isolepis marginata	Coarse Club-rush	
SAAKAN0002	Asteraceae	Lagenophora huegelii	Coarse Bottle-daisy	
SAAKAN0002	Primulaceae	Lysimachia arvensis	Scarlet Pimpernel	
SAAKAN0002	Myrtaceae	Melaleuca gibbosa	Slender Honey-myrtle	
SAAKAN0002	Myrtaceae	Melaleuca uncinata	Broom Bush	
SAAKAN0002	Poaceae	Microlaena stipoides var. stipoides		
SAAKAN0002	Oxalidaceae	Oxalis sp.	Oxalis	
SAAKAN0002	Loganiaceae	Phyllangium divergens	Wiry Mitrewort	
SAAKAN0002	Thymelaeaceae	Pimelea stricta	Erect Rice-flower	
SAAKAN0002	Plantaginaceae	Plantago sp. B (R. bates 44765)		
SAAKAN0002	Phyllanthaceae	Poranthera microphylla	Small Poranthera	
SAAKAN0002	Lamiaceae	Prostanthera spinosa	Spiny Mint-bush	
SAAKAN0002	Ranunculaceae	Ranunculus sessiliflorus var. sessiliflorus		
SAAKAN0002	Poaceae	Rytidosperma sp.	Danthonia	
SAAKAN0002	Asparagaceae	Thysanotus patersonii	Twining Fringe Lily	
SAAKAN0002	Urticaceae	Urtica urens	Stinging Nettle	
SAAKAN0002	Campanulaceae	Wahlenbergia gracilenta	Annual Bluebell	
SAAKAN0002	Xanthorrhoeaceae	Xanthorrhoea semiplana subsp. tateana		
SAAKAN0003	Asteraceae	*Arctotheca calendula	African Marigold	
SAAKAN0003	Poaceae	*Briza minor	Lesser Quaking Grass	
SAAKAN0003	Asteraceae	*Hypochaeris sp.		
SAAKAN0003	Asteraceae	*Leontodon rhagadioloides		
SAAKAN0003	Poaceae	*Vulpia bromoides	Brome Fescue	
SAAKAN0003	Poaceae	*Vulpia myuros f. myuros		
SAAKAN0003	Fabaceae	Acacia paradoxa	Acacia Hedge	
SAAKAN0003	Orchidaceae	Acianthus caudatus	Mayfly Orchid	
SAAKAN0003	Poaceae	Aira cupaniana	Silvery Hair Grass	
SAAKAN0003	Poaceae	Aira sp.	Hair grass	
SAAKAN0003	Casuarinaceae	Allocasuarina verticillata	Drooping Sheoak	
SAAKAN0003	Pittosporaceae	Bursaria spinosa subsp.spinosa		
SAAKAN0003	Hemerocallidaceae	Caesia sp.		

Plot name	Family	Herbarium determination	Common Name	SA Conservation Status
SAAKAN0003	Orchidaceae	Caladenia fuscata	Dusky Fingers	
SAAKAN0003	Orchidaceae	Caladenia tentaculata	Fringed Spider Orchid	
SAAKAN0003	Asteraceae	Carduus tenuiflorus	Slender Thistle	
SAAKAN0003	Centrolepidaceae	Centrolepis strigosa	Hairy Centrolepis	
SAAKAN0003	Caryophyllaceae	Cerastium glomeratum	Sticky Mouse-ear Chickweed	
SAAKAN0003	Pteridaceae	Cheilanthes austrotenuifolia	Rock Fern	
SAAKAN0003	Santalaceae	Choretrum glomeratum	Berry Broombush	
SAAKAN0003	Orchidaceae	Corybas sp.	Spider orchid	
SAAKAN0003	Crassulaceae	Crassula closiana	Stalked Crassula	
SAAKAN0003	Crassulaceae	Crassula decumbens	Rufous Stonecrop	
SAAKAN0003	Orchidaceae	Cyrtostylis robusta	Large Gnat Orchid	
SAAKAN0003	Apiaceae	Daucus glochidiatus	Australian Carrot	
SAAKAN0003	Fabaceae	Daviesia leptophylla	Narrow-leaf Bitter-pea	
SAAKAN0003	Hemerocallidaceae	Dianella sp.		
SAAKAN0003	Convolvulaceae	Dichondra repens	Kidney Weed	
SAAKAN0003	Orchidaceae	Diuris orientis	Wallflower Orchid	
SAAKAN0003	Droseraceae	Drosera auriculata	Sundew	
SAAKAN0003	Droseraceae	Drosera macrantha subsp. planchonii		
SAAKAN0003	Myrtaceae	Eucalyptus cladocalyx	Sugar Gum	
SAAKAN0003	Myrtaceae	Eucalyptus cosmophylla	Bog Gum	
SAAKAN0003	Myrtaceae	Eucalyptus fasciculosa	Hill Gum	Rare Species
SAAKAN0003	Rubiaceae	Galium sp.	Bedstraw	
SAAKAN0003	Geraniaceae	Geranium retrorsum	Common Cranesbill	
SAAKAN0003	Haloragaceae	Gonocarpus mezianus	Hairy Raspwort	
SAAKAN0003	Goodeniaceae	Goodenia ovata	Hop Goodenia	
SAAKAN0003	Dilleniaceae	Hibbertia riparia		
SAAKAN0003	Araliaceae	Hydrocotyle callicarpa	Small Pennywort	
SAAKAN0003	Araliaceae	Hydrocotyle comocarpa	Fringe-fruit Pennywort	Rare Species
SAAKAN0003	Araliaceae	Hydrocotyle foveolata	Yellow Pennywort	
SAAKAN0003	Cyperaceae	Isolepis marginata	Coarse Club-rush	
SAAKAN0003	Poaceae	Lachnagrostis sp.		
SAAKAN0003	Cyperaceae	Lepidosperma sp.		
SAAKAN0003	Ericaceae	Lissanthe strigosa subsp. subulata		
SAAKAN0003	Juncaceae	Luzula sp.	Woodrush	
SAAKAN0003	Myrtaceae	Melaleuca uncinata	Broom Bush	
SAAKAN0003	Poaceae	Microlaena stipoides var. stipoides		
SAAKAN0003	Boraginaceae	Myosotis australis	Austral Forget-me-not	
SAAKAN0003	Iridaceae	Orthrosanthus multiflorus	Many-flowered Orthrosanthus	
SAAKAN0003	Oxalidaceae	Oxalis perennans	Woody-root oxalis	
SAAKAN0003	Loganiaceae	Phyllangium divergens	Wiry Mitrewort	
SAAKAN0003	Thymelaeaceae	Pimelea flava subsp. flava		
SAAKAN0003	Polytrichaceae	Polytrichum juniperinum		
SAAKAN0003	Phyllanthaceae	Poranthera microphylla	Small Poranthera	
SAAKAN0003	Lamiaceae	Prostanthera spinosa	Spiny Mint-bush	
SAAKAN0003	Orchidaceae	Pterostylis sp.	Greenhood	
SAAKAN0003	Ranunculaceae	Ranunculus sessiliflorus var. sessiliflorus		
SAAKAN0003	Bryaceae	Rosulabryum capillare		
SAAKAN0003	Poaceae	Rytidosperma geniculatum		
SAAKAN0003	Poaceae	Rytidosperma sp.	Danthonia	
SAAKAN0003	Asteraceae	Senecio phelleus	rock fireweed	
SAAKAN0003	Asteraceae	Senecio sp.		
SAAKAN0003	Asteraceae	Stuartina muelleri	Spoon Cudweed	
SAAKAN0003	Orchidaceae	Thelymitra sp.	Sun orchid	

Plot name	Family	Herbarium determination	Common Name	SA Conservation Status
SAAKAN0003	Orchidaceae	Thelymitra sp.		
SAAKAN0003	Asparagaceae	Thysanotus patersonii	Twining Fringe Lily	
SAAKAN0003	Fabaceae	Trifolium sp.	Clover	
SAAKAN0003	Campanulaceae	Wahlenbergia gracilenta	Annual Bluebell	
SAAKAN0003	Xanthorrhoeaceae	Xanthorrhoea semiplana subsp. tateana		
SAAKAN0004	Fabaceae	Acacia myrtifolia	Myrtle Acacia	
SAAKAN0004	Ericaceae	Acrotriche halmaturina		
SAAKAN0004	Proteaceae	Adenanthos macropodianus		
SAAKAN0004	Casuarinaceae	Allocasuarina striata	Small Bull Oak	
SAAKAN0004	Proteaceae	Banksia marginata	Silver Banksia	
SAAKAN0004	Proteaceae	Banksia ornata	Desert Banksia	
SAAKAN0004	Rutaceae	Boronia edwardsii	Island Boronia	
SAAKAN0004	Lauraceae	Cassytha glabella f. dispar		
SAAKAN0004	Fabaceae	Daviesia asperula subsp. asperula		
SAAKAN0004	Fabaceae	Dillwynia sericea	Showy Parrot-pea	
SAAKAN0004	Droseraceae	Drosera sp.	Daily dew	
SAAKAN0004	Ericaceae	Epacris impressa	Common Heath	
SAAKAN0004	Myrtaceae	Eucalyptus baxteri	A Brown Stringybark	
SAAKAN0004	Myrtaceae	Eucalyptus cosmophylla	Bog Gum	
SAAKAN0004	Myrtaceae	Eucalyptus fasciculosa	Hill Gum	Rare Species
SAAKAN0004	Myrtaceae	Eucalyptus obliqua	Australian Oak	
SAAKAN0004	Myrtaceae	Euryomyrtus ramosissima subsp. ramosissima		
SAAKAN0004	Fabaceae	Gompholobium ecostatum	Dwarf Wedge-pea	
SAAKAN0004	Proteaceae	Hakea rostrata	Beaked Hakea	
SAAKAN0004	Dilleniaceae	Hibbertia devitata		
SAAKAN0004	Proteaceae	Isopogon ceratophyllus	Horny Cone-bush	
SAAKAN0004	Cyperaceae	Lepidosperma sp.		
SAAKAN0004	Santalaceae	Leptomeria aphylla	Leafless Currant-bush	
SAAKAN0004	Myrtaceae	Leptospermum myrsinoides	Heath Teatree	
SAAKAN0004	Ericaceae	Leucopogon concurvus		
SAAKAN0004	Proteaceae	Petrophile multisecta		
SAAKAN0004	Fabaceae	Pultenaea viscidula		
SAAKAN0004	Rhamnaceae	Spyridium vexilliferum		
SAAKAN0004	Celastraceae	Stackhousia aspericocca subsp. one-sided inflorescence		
SAAKAN0004	Elaeocarpaceae	Tetratheca insularis		
SAAKAN0004	Orchidaceae	Thelymitra flexuosa	Twisted Sun Orchid	Rare Species
SAAKAN0004	Violaceae	Viola sieberiana		
SAAKAN0004	Xanthorrhoeaceae	Xanthorrhoea semiplana subsp. tateana		
SAAKAN0005	Fabaceae	Acacia myrtifolia	Myrtle Acacia	
SAAKAN0005	Proteaceae	Adenanthos macropodias		
SAAKAN0005	Casuarinaceae	Allocasuarina striata	Small Bull Oak	
SAAKAN0005	Proteaceae	Banksia marginata	Silver Banksia	
SAAKAN0005	Proteaceae	Banksia ornata	Desert Banksia	
SAAKAN0005	Rutaceae	Boronia edwardsii		
SAAKAN0005	Rutaceae	Boronia filifolia	Slender Boronia	
SAAKAN0005	Myrtaceae	Calytrix glaberrima		
SAAKAN0005	Myrtaceae	Calytrix tetragona	Common Fringe-myrtle	
SAAKAN0005	Lauraceae	Cassytha glabella f. dispar		
SAAKAN0005	Proteaceae	Conospermum patens	Slender Smoke-bush	
SAAKAN0005	Fabaceae	Daviesia asperula subsp. asperula		
SAAKAN0005	Fabaceae	Daviesia brevifolia	Leafless Bitter-pea	
SAAKAN0005	Fabaceae	Dillwynia sericea	Showy Parrot-pea	

Plot name	Family	Herbarium determination	Common Name	SA Conservation Status
SAAKAN0005	Droseraceae	Drosera auriculata	Sundew	
SAAKAN0005	Droseraceae	Drosera macrantha subsp. planchonii		
SAAKAN0005	Droseraceae	Drosera sp.	Daily dew	
SAAKAN0005	Ericaceae	Epacris impressa	Common Heath	
SAAKAN0005	Myrtaceae	Eucalyptus baxteri	A Brown Stringybark	
SAAKAN0005	Myrtaceae	Eucalyptus remota	Kangaroo Island Mallee Ash	
SAAKAN0005	Myrtaceae	Euryomyrtus ramosissima spp. Ramosissima		
SAAKAN0005	Fabaceae	Gompholobium ecostatum	Dwarf Wedge-pea	
SAAKAN0005	Proteaceae	Grevillea quinquenervis	Five-nerved Grevillea	
SAAKAN0005	Proteaceae	Hakea rostrata	Beaked Hakea	
SAAKAN0005	Dilleniaceae	Hibbertia devitata		
SAAKAN0005	Dilleniaceae	Hibbertia platyphylla subsp. haematuria		
SAAKAN0005	Proteaceae	Isopogon ceratophyllus	Horny Cone-bush	
SAAKAN0005	Cyperaceae	Lepidosperma carphoides	Black Rapier-sedge	
SAAKAN0005	Cyperaceae	Lepidosperma semiteres	Wire Rapier-sedge	
SAAKAN0005	Cyperaceae	Lepidosperma sp.		
SAAKAN0005	Myrtaceae	Leptospermum continentale	Prickly Teatree	
SAAKAN0005	Ericaceae	Leucopogon concurvus		
SAAKAN0005	Picrodendraceae	Micrantheum demissum		
SAAKAN0005	Proteaceae	Petrophila multisecta		
SAAKAN0005	Fabaceae	Phyllota pleurandroides	Heathy Phyllota	
SAAKAN0005	Fabaceae	Platylobium obtusangulum	Common Flat-pea	
SAAKAN0005	Fabaceae	Pultenaea tenuifolia		
SAAKAN0005	Cyperaceae	Schoenus breviculmis	Matted Bog-rush	
SAAKAN0005	Rhamnaceae	Spyridium thymifolium		
SAAKAN0005	Celastraceae	Stackhousia asteriscosa subsp. one-sided inflorescence (W.R.Barker 697)		
SAAKAN0005	Elaeocarpaceae	Tetratheca haematuria		
SAAKAN0005	Elaeocarpaceae	Tetratheca insularis		
SAAKAN0005	Violaceae	Viola eminens		
SAAKAN0005	Xanthorrhoeaceae	Xanthorrhoea semiplana subsp. tateana		
SAAKAN0006	Fabaceae	Acacia paradoxa	Acacia Hedge	
SAAKAN0006	Proteaceae	Adenanthos macropodias		
SAAKAN0006	Casuarinaceae	Allocasuarina striata	Small Bull Oak	
SAAKAN0006	Myrtaceae	Baeckea ericaea	Mat Baeckea	
SAAKAN0006	Proteaceae	Banksia marginata	Silver Banksia	
SAAKAN0006	Proteaceae	Banksia ornata	Desert Banksia	
SAAKAN0006	Rutaceae	Boronia filifolia	Slender Boronia	
SAAKAN0006	Myrtaceae	Calytrix tetragona	Common Fringe-myrtle	
SAAKAN0006	Lauraceae	Cassytha glabella f. dispar		
SAAKAN0006	Cyperaceae	Caustis pentandra	Thick Twig-rush	
SAAKAN0006	Proteaceae	Conospermum patens	Slender Smoke-bush	
SAAKAN0006	Cyperaceae	Cyperaceae sp.		
SAAKAN0006	Fabaceae	Daviesia brevifolia	Leafless Bitter-pea	
SAAKAN0006	Fabaceae	Dillwynia sericea	Showy Parrot-pea	
SAAKAN0006	Droseraceae	Drosera auriculata	Sundew	
SAAKAN0006	Droseraceae	Drosera macrantha subsp. planchonii		
SAAKAN0006	Droseraceae	Drosera pygmaea	Tiny Sundew	
SAAKAN0006	Ericaceae	Epacris impressa	Common Heath	
SAAKAN0006	Myrtaceae	Eucalyptus cosmophylla	Bog Gum	
SAAKAN0006	Myrtaceae	Eucalyptus remota	Kangaroo Island Mallee Ash	
SAAKAN0006	Haloragaceae	Glischrocaryon behrii	"Golden Pennants"	
SAAKAN0006	Fabaceae	Gompholobium ecostatum	Dwarf Wedge-pea	

Plot name	Family	Herbarium determination	Common Name	SA Conservation Status
SAAKAN0006	Proteaceae	Grevillea quinquenervis	Five-nerved Grevillea	
SAAKAN0006	Proteaceae	Hakea rostrata	Beaked Hakea	
SAAKAN0006	Dilleniaceae	Hibbertia devitata		
SAAKAN0006	Dilleniaceae	Hibbertia peninsularis		
SAAKAN0006	Dilleniaceae	Hibbertia platyphylla subsp. haematuria		
SAAKAN0006	Dilleniaceae	Hibbertia virgata	Guinea-flower	
SAAKAN0006	Proteaceae	Isopogon ceratophyllus	Horny Cone-bush	
SAAKAN0006	Cyperaceae	Lepidosperma carphoides	Black Rapier-sedge	
SAAKAN0006	Cyperaceae	Lepidosperma sp.		
SAAKAN0006	Ericaceae	Leucopogon costatus	Twiggy Beard-Heath	
SAAKAN0006	Loganiaceae	Logania scabrella	Rough Logania	Rare Species
SAAKAN0006	Iridaceae	Patersonia fragilis	Short Purple Flag	
SAAKAN0006	Proteaceae	Petrophila multisecta		
SAAKAN0006	Fabaceae	Phyllota pleurandroides	Heathy Phyllota	
SAAKAN0006	Thymelaeaceae	Pimelea octophylla	Woolly Rice-flower	
SAAKAN0006	Fabaceae	Platylobium obtusangulum	Common Flat-pea	
SAAKAN0006	Fabaceae	Pultenaea trinervis		
SAAKAN0006	Cyperaceae	Schoenus breviculmis	Matted Bog-rush	
SAAKAN0006	Rhamnaceae	Spyridium vexilliferum		
SAAKAN0006	Celastraceae	Stackhousia aspericocca subsp. one-sided inflorescence (W.R.Barker 697)		
SAAKAN0006	Elaeocarpaceae	Tetratheca haematuria		
SAAKAN0006	Asparagaceae	Thysanotus racemoides		
SAAKAN0006	Violaceae	Viola sieberiana		
SAAKAN0006	Xanthorrhoeaceae	Xanthorrhoea semiplana subsp. tateana		
SAAKAN0007	Fabaceae	Acacia myrtifolia	Myrtle Acacia	
SAAKAN0007	Fabaceae	Acacia paradoxa	Acacia Hedge	
SAAKAN0007	Ericaceae	Acrotriche cordata	Coast Ground Berry	
SAAKAN0007	Ericaceae	Acrotriche depressa	Wiry Ground-berry	
SAAKAN0007	Proteaceae	Adenanthos macropodianus		
SAAKAN0007	Casuarinaceae	Allocasuarina striata	Small Bull Oak	
SAAKAN0007	Pittosporaceae	Billardiera uniflora		
SAAKAN0007	Rutaceae	Boronia edwardsii	Island Boronia	
SAAKAN0007	Rutaceae	Boronia filifolia	Slender Boronia	
SAAKAN0007	Myrtaceae	Calytrix glaberrima		
SAAKAN0007	Lauraceae	Cassytha pubescens	Devil's Twine	
SAAKAN0007	Santalaceae	Choretrum glomeratum	Berry Broombush	
SAAKAN0007	Rutaceae	Correa sp.	Australian fuchsia	
SAAKAN0007	Fabaceae	Daviesia asperula subsp. asperula		
SAAKAN0007	Fabaceae	Dillwynia sericea	Showy Parrot-pea	
SAAKAN0007	Sapindaceae	Dodonaea viscosa subsp. angustissima		
SAAKAN0007	Myrtaceae	Eucalyptus cladocalyx	Sugar Gum	
SAAKAN0007	Myrtaceae	Eucalyptus cosmophylla	Bog Gum	
SAAKAN0007	Myrtaceae	Eucalyptus diversifolia	Coast Mallee	
SAAKAN0007	Myrtaceae	Eucalyptus remota	Kangaroo Island Mallee Ash	
SAAKAN0007	Haloragaceae	Gonocarpus mezianus	Hairy Raspwort	
SAAKAN0007	Proteaceae	Grevillea quinquenervis	Five-nerved Grevillea	
SAAKAN0007	Proteaceae	Hakea carinata		
SAAKAN0007	Proteaceae	Hakea mitchellii	Desert Hakea	
SAAKAN0007	Proteaceae	Hakea rostrata	Beaked Hakea	
SAAKAN0007	Dilleniaceae	Hibbertia empetrifolia subsp. radians		
SAAKAN0007	Dilleniaceae	Hibbertia pallidiflora	Pale Guinea-flower	
SAAKAN0007	Dilleniaceae	Hibbertia sericea	Silky Guinea-flower	

Plot name	Family	Herbarium determination	Common Name	SA Conservation Status
SAAKAN0007	Dilleniaceae	Hibbertia virgata	Guinea-flower	
SAAKAN0007	Proteaceae	Isopogon ceratophyllus	Horny Cone-bush	
SAAKAN0007	Asteraceae	Ixodia achillaeoides subsp. alata		
SAAKAN0007	Malvaceae	Lasiopetalum sp. cordate-leaved (H.P Vonow 810)		
SAAKAN0007	Cyperaceae	Lepidosperma canescens	Hoary Rapier-sedge	
SAAKAN0007	Cyperaceae	Lepidosperma viscidum	Sticky Sword-sedge	
SAAKAN0007	Santalaceae	Leptomeria aphylla	Leafless Currant-bush	
SAAKAN0007	Ericaceae	Leucopogon rufur		
SAAKAN0007	Loganiaceae	Logania ovata	Oval-leaf Logania	
SAAKAN0007	Myrtaceae	Melaleuca gibbosa	Slender Honey-myrtle	
SAAKAN0007	Asteraceae	Olearia ramulosa	Oily Bush	
SAAKAN0007	Iridaceae	Orthrosanthus multiflorus	Many-flowered Orthrosanthus	
SAAKAN0007	Proteaceae	Petrophile multisecta		
SAAKAN0007	Phyllanthaceae	Phyllanthus striaticaulis		
SAAKAN0007	Thymelaeaceae	Pimelea macrostegia		
SAAKAN0007	Lamiaceae	Prostanthera spinosa	Spiny Mint-bush	
SAAKAN0007	Fabaceae	Pultenaea viscidula		
SAAKAN0007	Rhamnaceae	Spyridium coalitum	Flinders Chase spyridium	
SAAKAN0007	Rhamnaceae	Spyridium waterhousei		
SAAKAN0007	Xanthorrhoeaceae	Xanthorrhoea semiplana subsp. tateana		
SAAKAN0008	Ericaceae	Acrotriche depressa	Wiry Ground-berry	
SAAKAN0008	Proteaceae	Adenanthos macropodias		
SAAKAN0008	Casuarinaceae	Allocasuarina striata	Small Bull Oak	
SAAKAN0008	Myrtaceae	Baeckea ericaea	Mat Baeckea	
SAAKAN0008	Proteaceae	Banksia marginata	Silver Banksia	
SAAKAN0008	Proteaceae	Banksia ornata	Desert Banksia	
SAAKAN0008	Euphorbiaceae	Bertya rotundifolia	Kangaroo Island Bertya	
SAAKAN0008	Pittosporaceae	Billardiera uniflora		
SAAKAN0008	Rutaceae	Boronia filifolia	Slender Boronia	
SAAKAN0008	Ericaceae	Brachyloma ericoides subsp. bicolor		
SAAKAN0008	Myrtaceae	Calytrix tetragona	Common Fringe-myrtle	
SAAKAN0008	Lauraceae	Cassytha pubescens	Devil's Twine	
SAAKAN0008	Cyperaceae	Caustis pentandra	Thick Twig-rush	
SAAKAN0008	Santalaceae	Choretrum glomeratum	Berry Broombush	
SAAKAN0008	Rutaceae	Correa backhouseana var. orbicularis		Rare Species
SAAKAN0008	Solanaceae	Cyphanthera myosotidea	Small Leaf Ray-flower	
SAAKAN0008	Fabaceae	Dillwynia sericea	Showy Parrot-pea	
SAAKAN0008	Sapindaceae	Dodonaea viscosa subsp. angustissima		
SAAKAN0008	Myrtaceae	Eucalyptus albopurpurea	Coffin Bay mallee	
SAAKAN0008	Myrtaceae	Eucalyptus cosmophylla	Bog Gum	
SAAKAN0008	Myrtaceae	Eucalyptus diversifolia	Coast Mallee	
SAAKAN0008	Haloragaceae	Glischrocaryon behrii	"Golden Pennants"	
SAAKAN0008	Haloragaceae	Gonocarpus mezianus	Hairy Raspwort	
SAAKAN0008	Proteaceae	Hakea rostrata	Beaked Hakea	
SAAKAN0008	Dilleniaceae	Hibbertia devitata		
SAAKAN0008	Dilleniaceae	Hibbertia virgata	Guinea-flower	
SAAKAN0008	Restionaceae	Hypolaena fastigiata	Tassel Rope-rush	
SAAKAN0008	Cyperaceae	Lepidosperma sp.		
SAAKAN0008	Myrtaceae	Leptospermum myrsinoides	Heath Teatree	
SAAKAN0008	Ericaceae	Leucopogon costatus	Twiggy Beard-Heath	
SAAKAN0008	Myrtaceae	Melaleuca gibbosa	Slender Honey-myrtle	
SAAKAN0008	Myrtaceae	Melaleuca uncinata	Broom Bush	

Plot name	Family	Herbarium determination	Common Name	SA Conservation Status
SAAKAN0008	Iridaceae	Patersonia fragilis	Short Purple Flag	
SAAKAN0008	Proteaceae	Petrophile multisecta		
SAAKAN0008	Phyllanthaceae	Phyllanthus stricticaulis		
SAAKAN0008	Thymelaeaceae	Pimelea macrostegia		
SAAKAN0008	Fabaceae	Pultenaea acerosa	Bristly Bush-pea	
SAAKAN0008	Orchidaceae	Pyrorchis nigricans	Elephant's Ears	
SAAKAN0008	Rhamnaceae	Spyridium nitidum	Shining Spyridium	
SAAKAN0008	Ericaceae	Stenanthera conostephioides		
SAAKAN0008	Myrtaceae	Thryptomene ericaea		
SAAKAN0008	Xanthorrhoeaceae	Xanthorrhoea semiplana subsp. tateana		
SAAKAN0009	Fabaceae	Acacia triquetra		
SAAKAN0009	Ericaceae	Acrotriche cordata	Coast Ground Berry	
SAAKAN0009	Proteaceae	Banksia marginata	Silver Banksia	
SAAKAN0009	Euphorbiaceae	Beyeria lechenaultii	Pale Turpentine Bush	
SAAKAN0009	Pittosporaceae	Billardiera sp.		
SAAKAN0009	Rutaceae	Boronia filifolia	Slender Boronia	
SAAKAN0009	Lauraceae	Cassytha melantha	Coarse Dodder-laurel	
SAAKAN0009	Lauraceae	Cassytha pubescens	Devil's Twine	
SAAKAN0009	Santalaceae	Choretrum glomeratum	Berry Broombush	
SAAKAN0009	Rutaceae	Correa backhouseana var. orbicularis		Rare Species
SAAKAN0009	Goodeniaceae	Dampiera lanceolata var. insularis		
SAAKAN0009	Fabaceae	Dillwynia sericea	Showy Parrot-pea	
SAAKAN0009	Sapindaceae	Dodonaea humilis		
SAAKAN0009	Myrtaceae	Eucalyptus albopurpurea	Coffin Bay mallee	
SAAKAN0009	Myrtaceae	Eucalyptus cosmophylla	Bog Gum	
SAAKAN0009	Myrtaceae	Eucalyptus diversifolia	Coast Mallee	
SAAKAN0009	Myrtaceae	Eucalyptus rugosa	Kingscote mallee	
SAAKAN0009	Cyperaceae	Gahnia deusta	Heathy Saw-sedge	
SAAKAN0009	Goodeniaceae	Goodenia geniculata	Bent Goodenia	
SAAKAN0009	Goodeniaceae	Goodenia varia	Sticky Goodenia	
SAAKAN0009	Proteaceae	Grevillea dilatata		
SAAKAN0009	Proteaceae	Grevillea pauciflora		
SAAKAN0009	Proteaceae	Hakea vittata	Hooked Needlewood	
SAAKAN0009	Dilleniaceae	Hibbertia setifera		
SAAKAN0009	Dilleniaceae	Hibbertia virgata	Guinea-flower	
SAAKAN0009	Cyperaceae	Lepidosperma viscidum	Sticky Sword-sedge	
SAAKAN0009	Ericaceae	Leucopogon costatus	Twiggy Beard-Heath	
SAAKAN0009	Loganiaceae	Logania ovata	Oval-leaf Logania	
SAAKAN0009	Myrtaceae	Melaleuca acuminata		
SAAKAN0009	Myrtaceae	Melaleuca lanceolata	Moonah	
SAAKAN0009	Rutaceae	Microcybe pauciflora subsp. Pauciflora		
SAAKAN0009	Asteraceae	Olearia ciliata var. squamifolia		
SAAKAN0009	Asteraceae	Olearia ramulosa	Oily Bush	
SAAKAN0009	Rubiaceae	Opercularia turpis	Grey Stinkweed	
SAAKAN0009	Iridaceae	Orthrosanthus multiflorus	Many-flowered Orthrosanthus	
SAAKAN0009	Thymelaeaceae	Pimelea glauca	Smooth Rice-flower	
SAAKAN0009	Thymelaeaceae	Pimelea octophylla	Woolly Rice-flower	
SAAKAN0009	Apiaceae	Platysace heterophylla var. heterophylla		
SAAKAN0009	Rhamnaceae	Pomaderris obcordata	Pimelea Pomaderris	
SAAKAN0009	Fabaceae	Pultenaea acerosa	Bristly Bush-pea	
SAAKAN0009	Fabaceae	pultenaea tenuifolia		
SAAKAN0009	Rhamnaceae	Spyridium nitidum	Shining Spyridium	
SAAKAN0009	Rhamnaceae	Spyridium phylicoides		

Plot name	Family	Herbarium determination	Common Name	SA Conservation Status
SAAKAN0009	Celastraceae	Stackhousia aspericocca subsp. one-sided inflorescence (W.R.Barker 697)		
SAAKAN0009		Stackhousia aspericocca subsp.sp.		
SAAKAN0009	Ericaceae	Styphelia exarrhena	Desert Styphelia	
SAAKAN0009	Plantaginaceae	Veronica hillebrandii	Coast Speedwell	
SAAKAN0009	Xanthorrhoeaceae	Xanthorrhoea semiplana subsp. tateana		
SAAKAN0010	Fabaceae	Acacia leiophylla		
SAAKAN0010	Fabaceae	Acacia triquetra		
SAAKAN0010	Fabaceae	Acacia unifolia		
SAAKAN0010	Ericaceae	Acrotriche cordata	Coast Ground Berry	
SAAKAN0010	Ericaceae	Acrotriche patula		
SAAKAN0010	Poaceae	Aira cupaniana	Silvery Hair Grass	
SAAKAN0010	Poaceae	Austrostipa mundula	Neat Spear-grass	
SAAKAN0010	Poaceae	Avellinia mitchellii		
SAAKAN0010	Euphorbiaceae	Beyeria lechenaultii	Pale Turpentine Bush	
SAAKAN0010	Cupressaceae	Callitris sp. Limestone (M.D.Crisp 11785)		
SAAKAN0010	Poaceae	Catapodium rigidum	Fern Grass	
SAAKAN0010	Santalaceae	Choretrum glomeratum	Berry Broombush	
SAAKAN0010	Polygalaceae	Comesperma volubile	Blue Love Creeper	
SAAKAN0010	Apiaceae	Daucus glochidiatus	Australian Carrot	
SAAKAN0010	Hemerocallidaceae	Dianella brevicaulis	Blueberry Lily	
SAAKAN0010	Sapindaceae	Dodonaea humilis		
SAAKAN0010	Myrtaceae	Eucalyptus albopurpurea	Coffin Bay mallee	
SAAKAN0010	Myrtaceae	Eucalyptus diversifolia	Coast Mallee	
SAAKAN0010	Myrtaceae	Eucalyptus rugosa	Kingscote mallee	
SAAKAN0010	Fabaceae	Eutaxia microphylla	Common Eutaxia	
SAAKAN0010	Proteaceae	Hakea mitchellii	Desert Hakea	
SAAKAN0010	Dilleniaceae	Hibbertia pallidiflora	Pale Guinea-flower	
SAAKAN0010	Dilleniaceae	Hibbertia riparia		
SAAKAN0010	Ericaceae	Leucopogon parviflorus (fruit z-celled)		
SAAKAN0010	Loganiaceae	Logania ovata	Oval-leaf Logania	
SAAKAN0010	Myrtaceae	Melaleuca gibbosa	Slender Honey-myrtle	
SAAKAN0010	Myrtaceae	Melaleuca lanceolata	Moonah	
SAAKAN0010	Iridaceae	Orthrosanthus multiflorus	Many-flowered Orthrosanthus	
SAAKAN0010	Geraniaceae	Pelargonium littorale	Coast Stork's-bill	
SAAKAN0010	Rhamnaceae	Pomaderris obcordata	Pimelea Pomaderris	
SAAKAN0010	Phyllanthaceae	Poranthera triandra	Three-petal Poranthera	
SAAKAN0010	Poaceae	Rytidosperma caespitosum	Ringed Wallaby Grass	
SAAKAN0010	Gentianaceae	Sebaea ovata	Yellow Centaury	
SAAKAN0010	Asteraceae	Senecio odoratus	scented groundsel	
SAAKAN0010	Asparagaceae	Thysanotus patersonii	Twining Fringe Lily	
SAAKAN0010	Plantaginaceae	Veronica hillebrandii	Coast Speedwell	
SAAKAN0011	Asparagaceae	*Asparagus asparagoides	Bridal Creeper	
SAAKAN0011	Poaceae	*Vulpia myuros F. myuros		
SAAKAN0011	Fabaceae	Acacia paradoxa	Acacia Hedge	
SAAKAN0011	Ericaceae	Acrotriche depressa	Wiry Ground-berry	
SAAKAN0011	Poaceae	Aira cupaniana	Silvery Hair Grass	
SAAKAN0011	Poaceae	Austrostipa hemipogon	Half-bearded Spear-grass	
SAAKAN0011	Poaceae	Catapodium rigidum	Fern Grass	
SAAKAN0011	Asparagaceae	Chamaescilla corymbosa	Blue Squill	
SAAKAN0011	Pteridaceae	Cheilanthes austrotenuifolia	Rock Fern	
SAAKAN0011	Ranunculaceae	Clematis microphylla	Narrow-leaf Headache Vine	
SAAKAN0011	Rutaceae	Correa reflexa var. insularis		

Plot name	Family	Herbarium determination	Common Name	SA Conservation Status
SAAKAN0011	Apiaceae	Daucus glochidiatus	Australian Carrot	
SAAKAN0011	Droseraceae	Drosera auriculata	Sundew	
SAAKAN0011	Droseraceae	Drosera macrantha subsp. planchonii		
SAAKAN0011	Droseraceae	Drosera sp.	Daily dew	
SAAKAN0011	Poaceae	Ehrharta longifolia		
SAAKAN0011	Myrtaceae	Eucalyptus cneorifolia	Red Mallee	
SAAKAN0011	Myrtaceae	Eucalyptus odorata	Mallee Box	
SAAKAN0011	Rubiaceae	Galium leptogonium (Spinulosa fruit form)		
SAAKAN0011	Haloragaceae	Gonocarpus mezianus	Hairy Raspwort	
SAAKAN0011	Araliaceae	Hydrocotyle callicarpa	Small Pennywort	
SAAKAN0011	Asteraceae	Lagenophora huegelii	Coarse Bottle-daisy	
SAAKAN0011	Asteraceae	Lagenophora sp.		
SAAKAN0011	Cyperaceae	Lepidosperma viscidum	Sticky Sword-sedge	
SAAKAN0011	Primulaceae	Lysimachia arvensis	Scarlet Pimpernel	
SAAKAN0011	Myrtaceae	Melaleuca gibbosa	Slender Honey-myrtle	
SAAKAN0011	Myrtaceae	Melaleuca uncinata	Broom Bush	
SAAKAN0011	Poaceae	Microlaena stipoides var. stipoides		
SAAKAN0011	Iridaceae	Orthrosanthus multiflorus	Many-flowered Orthrosanthus	
SAAKAN0011	Oxalidaceae	Oxalis perennans	Woody-root oxalis	
SAAKAN0011	Geraniaceae	Pelargonium littorale	Coast Stork's-bill	
SAAKAN0011	Poaceae	Poa sp.	Blue grass	
SAAKAN0011	Phyllanthaceae	Poranthera microphylla	Small Poranthera	
SAAKAN0011	Poaceae	Rytidosperma sp.	Danthonia	
SAAKAN0011	Myrtaceae	Thryptomene ericaea		
SAAKAN0011	Asparagaceae	Thysanotus patersonii	Twining Fringe Lily	
SAAKAN0012	Rubiaceae	*Galium murale	Small Bedstraw.	
SAAKAN0012	Fabaceae	Acacia triquetra		
SAAKAN0012	Ericaceae	Acrotriche cordata	Coast Ground Berry	
SAAKAN0012	Ericaceae	Acrotriche patula		
SAAKAN0012	Euphorbiaceae	Beyeria lechenaultii	Pale Turpentine Bush	
SAAKAN0012	Myrtaceae	Calytrix tetragona	Common Fringe-myrtle	
SAAKAN0012	Aizoaceae	Carpobrotus rossii	Karkalla	
SAAKAN0012	Lauraceae	Cassytha pubescens	Devil's Twine	
SAAKAN0012	Poaceae	Catapodium rigidum	Fern Grass	
SAAKAN0012	Ranunculaceae	Clematis microphylla	Narrow-leaf Headache Vine	
SAAKAN0012	Polygalaceae	Comesperma volubile	Blue Love Creeper	
SAAKAN0012	Rutaceae	Correa sp.	Australian fuchsia	
SAAKAN0012	Apiaceae	Daucus glochidiatus	Australian Carrot	
SAAKAN0012	Hemerocallidaceae	Dianella brevicaulis	Blueberry Lily	
SAAKAN0012	Sapindaceae	Dodonaea humilis		
SAAKAN0012	Myrtaceae	Eucalyptus diversifolia	Coast Mallee	
SAAKAN0012	Scrophulariaceae	Euphrasia collina subsp. tetragona		
SAAKAN0012	Asteraceae	Gnaphalium indutum	Tiny Cudweed	
SAAKAN0012	Goodeniaceae	Goodenia varia	Sticky Goodenia	
SAAKAN0012	Dilleniaceae	Hibbertia pallidiflora	Pale Guinea-flower	
SAAKAN0012	Poaceae	Lagurus ovatus	Bouquet Grass	
SAAKAN0012	Malvaceae	Lasiopetalum discolor	Coast Velvetbush	
SAAKAN0012	Malvaceae	Lasiopetalum schulzenii	Drooping Velvet-bush	
SAAKAN0012	Asteraceae	leiocarpa supina		
SAAKAN0012	Ericaceae	Leucopogon parviflorus	Coast Beard heath	
SAAKAN0012	Myrtaceae	Melaleuca gibbosa	Slender Honey-myrtle	
SAAKAN0012	Myrtaceae	Melaleuca lanceolata	Moonah	
SAAKAN0012	Rutaceae	Microcybe pauciflora		

Plot name	Family	Herbarium determination	Common Name	SA Conservation Status
SAAKAN0012	Asteraceae	Olearia ramulosa	Oily Bush	
SAAKAN0012	Iridaceae	Orthrosanthus multiflorus	Many-flowered Orthrosanthus	
SAAKAN0012	Urticaceae	Parietaria debilis	Forest Pellitory	
SAAKAN0012	Geraniaceae	Pelargonium littorale	Coast Stork's-bill	
SAAKAN0012	Thymelaeaceae	Pimelea glauca	Smooth Rice-flower	
SAAKAN0012	Rhamnaceae	Pomaderris obcordata	Pimelea Pomaderris	
SAAKAN0012	Fabaceae	Pultenaea acerosa	Bristly Bush-pea	
SAAKAN0012	Chenopodiaceae	Rhagodia candolleana		
SAAKAN0012	Chenopodiaceae	Rhagodia candolleana subsp. candolleana		
SAAKAN0012	Gentianaceae	Sebaea ovata	Yellow Centaury	
SAAKAN0012	Asteraceae	Senecio odoratus	scented groundsel	
SAAKAN0012	Asteraceae	Senecio spanomerus		

We at TERN acknowledge the traditional owners and their custodianship of the lands on which TERN operates. We pay our respects to their ancestors and their descendants, who continue cultural and spiritual connections to country.

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