

Biodiversity Database



Presented by

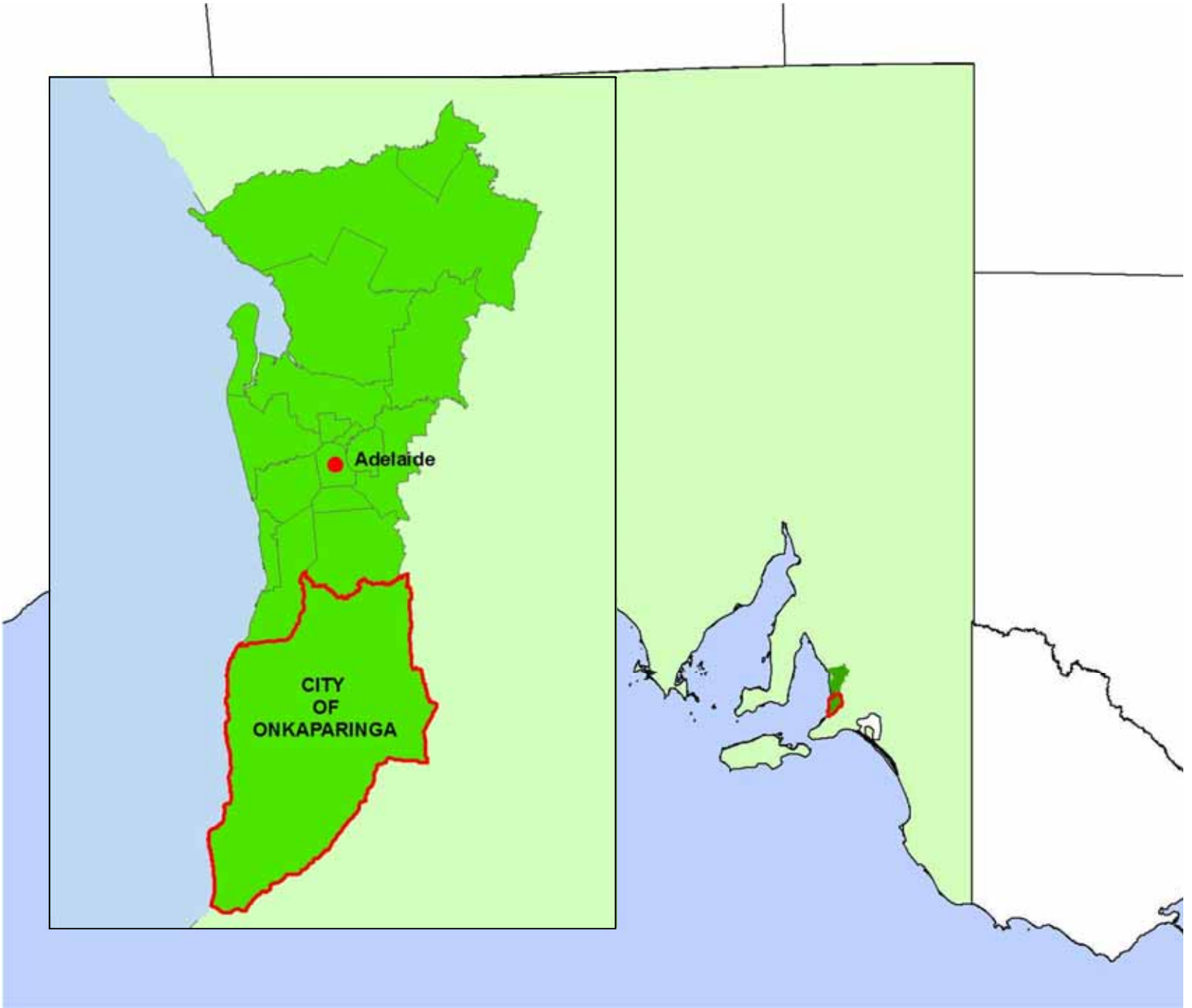
Jackie Mules, SIS Project Officer



Spatial Information Services

- asset data management
- general mapping services
- data analysis
- projects

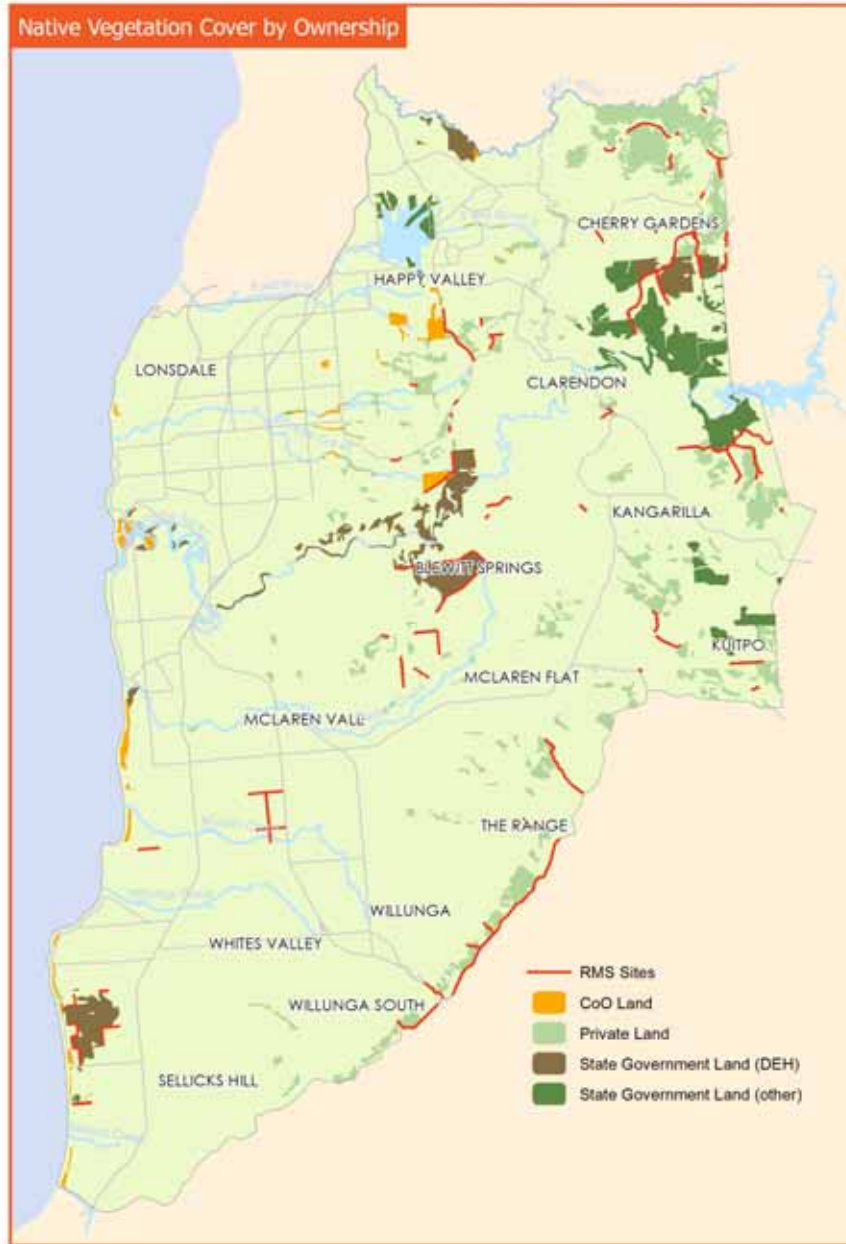
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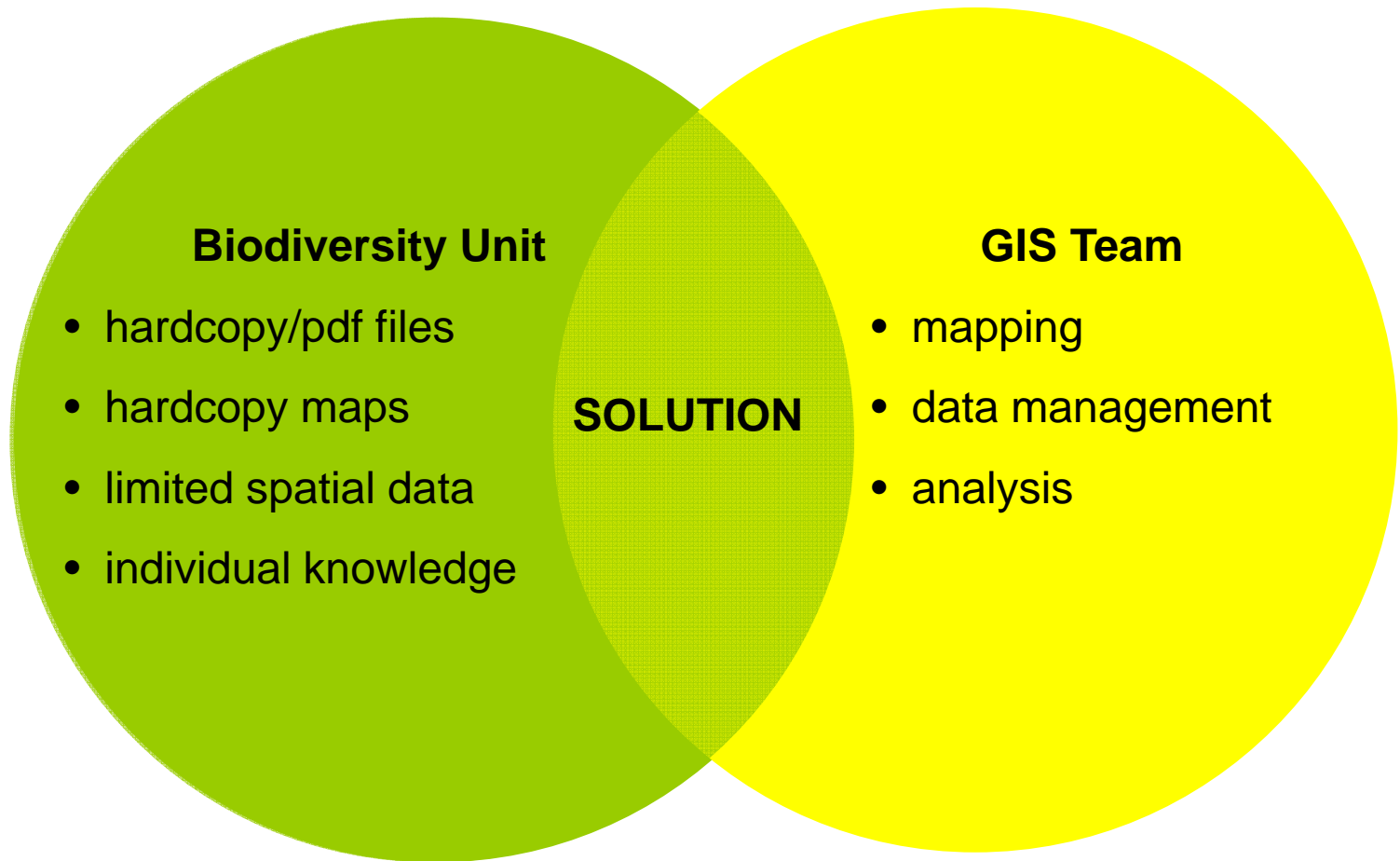


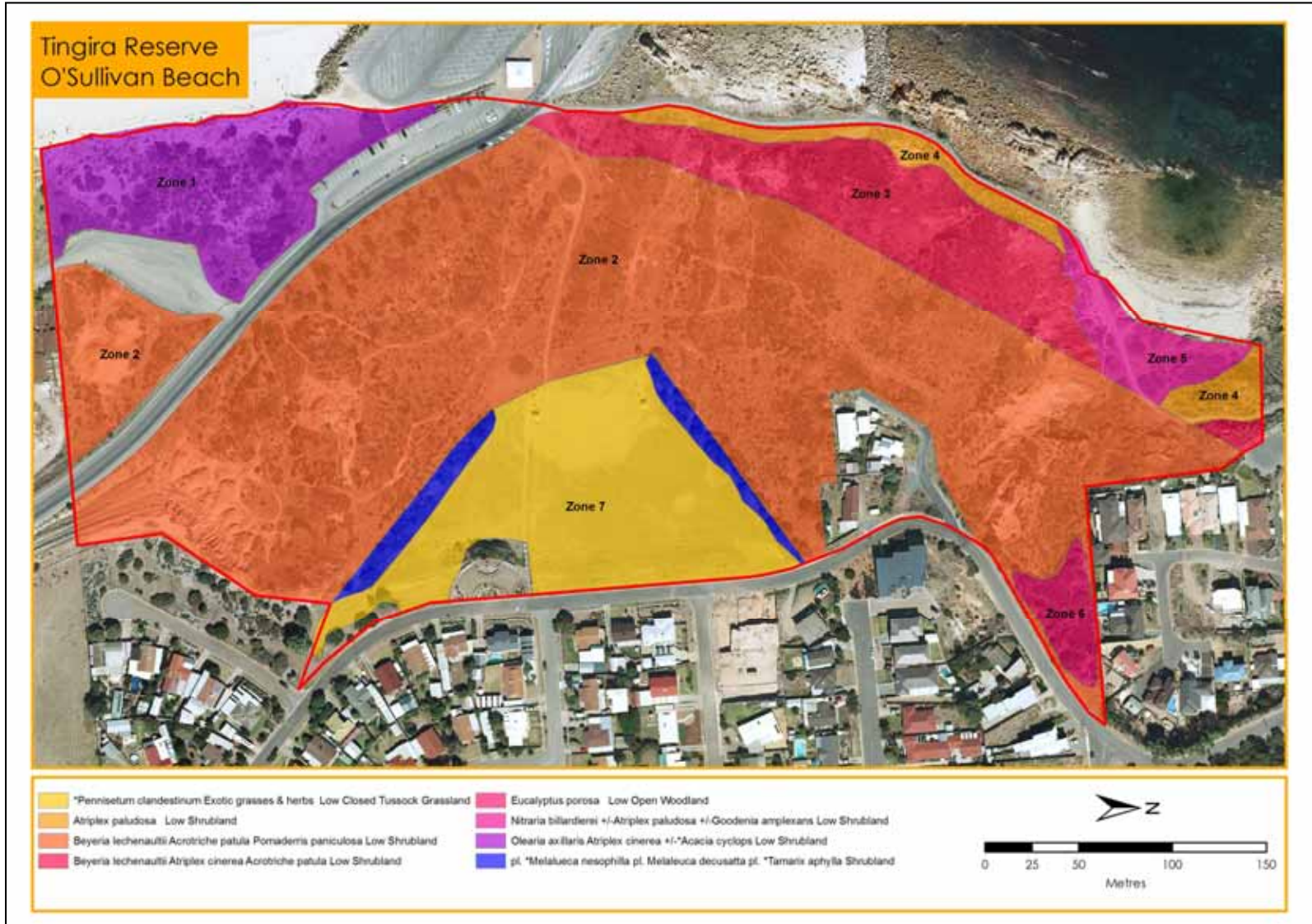
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Biodiversity Unit

- over 100 managed sites and over 120 roadside sites
- manage bushland areas
- implement and manage revegetation projects
- support community volunteers
- provide technical advice

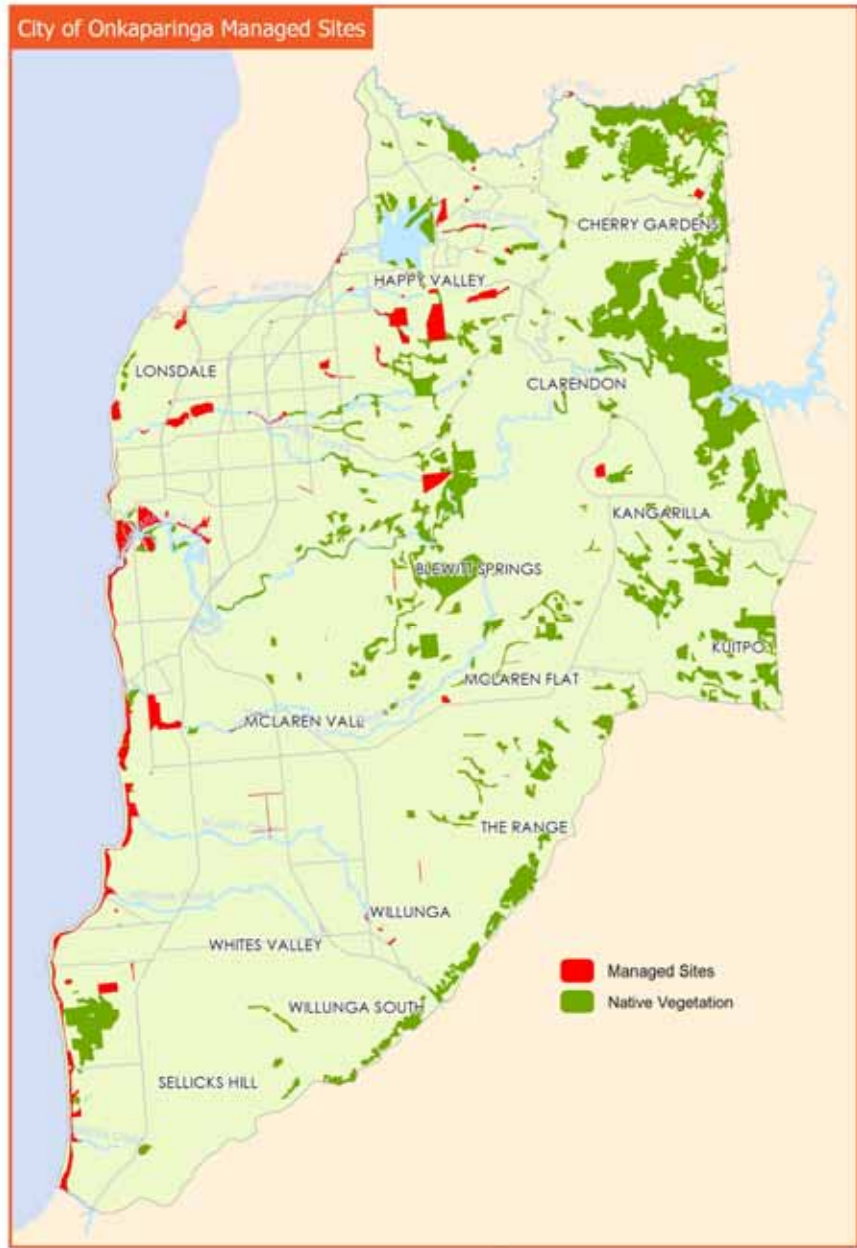


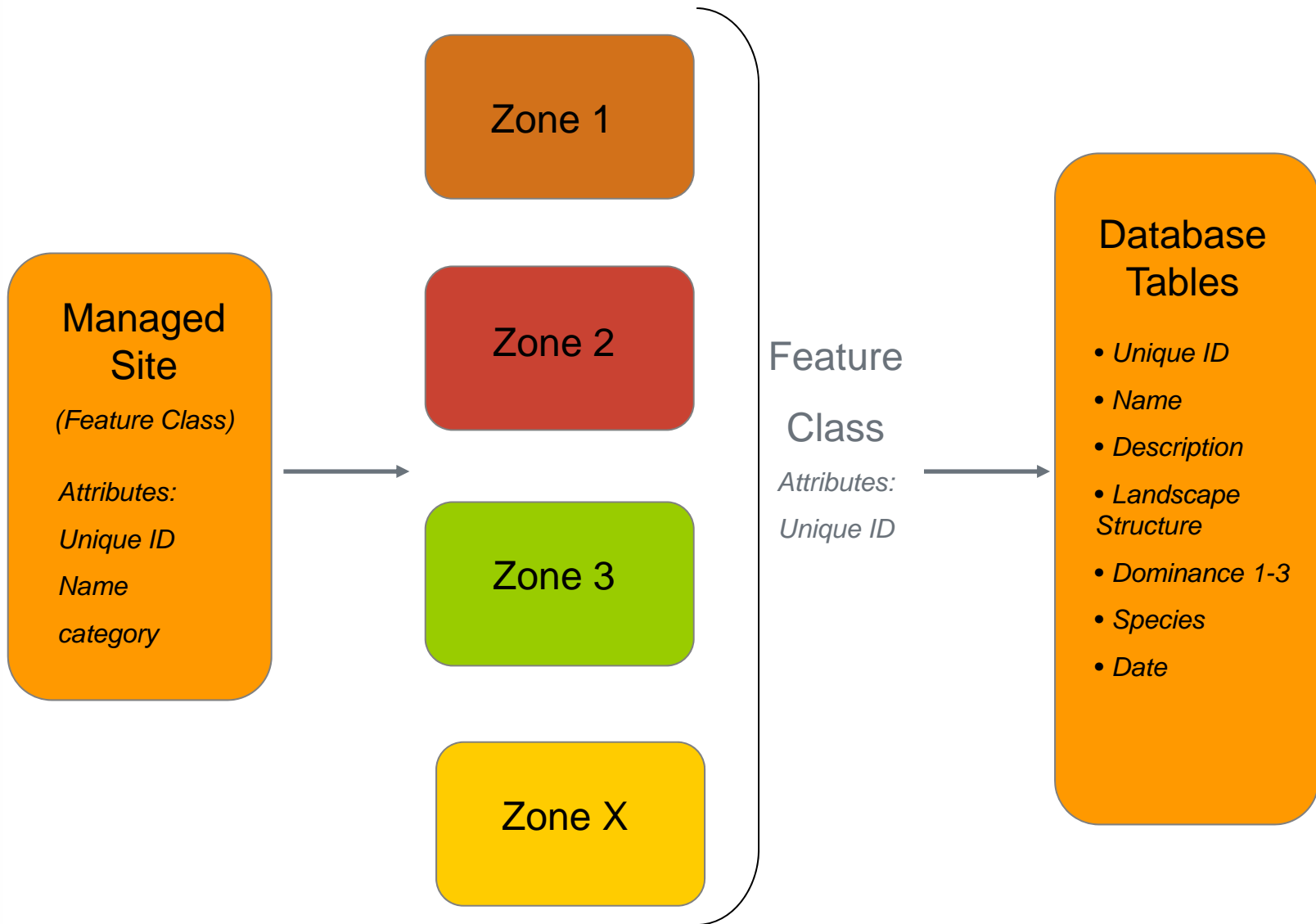


Native Vegetation Managed Sites

- prevent further degradation, enhance existing native vegetation
- weed invasion, passive and non-passive recreational use and fire protection
- inventory of existing species and conservation significance is recorded in Management Plans

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Data Collection

- infield site visits
- CAD mark up
- textual data entered into a simple database form and spreadsheet

Convert to GIS

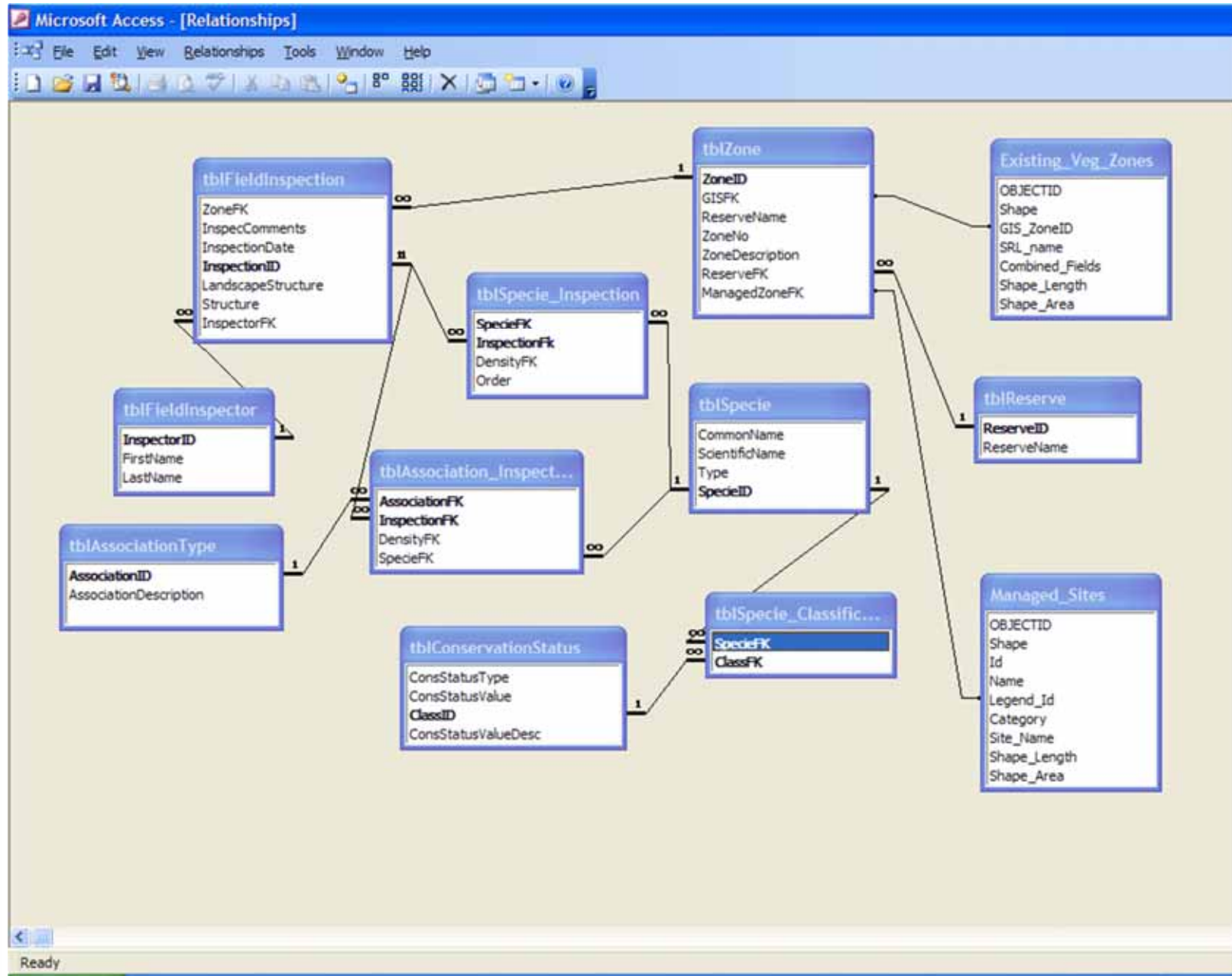
- import CAD
- convert to layers
- unique referencing

Current Pre European Vegetation Zones



Develop Database

- convert existing data into normalised database
- engage external consultant
- liaise with Biodiversity Unit to develop queries and forms



frmManageBaseData : Form

City of Onkaparinga Biodiversity Database

Manage Base Data	Find Information
<p>Update Field Survey Change information recorded against a field survey</p>	<p>Inspection Information Finds information related to a specific inspection.</p>
<p>Zones Create, delete or update Zone information.</p>	<p>List of Zones List of all zones and their associated reserves.</p>
<p>Species Create, delete or update Specie information.</p>	<p>Reserve by ID Enter a reserve id to display the species that it hosts.</p>
<p>Look ups Create, delete or update all Look up values from the one form.</p>	<p>Remnant Sites List of remnant sites and the area.</p>
<p>New Inspection Enter information collected from a field survey</p>	<p>Specie/site List of all species and the site they exist on.</p>
	<p>Site/Specie Find a site by ID and list its zones and the species on each zone.</p>
	<p>Species Location Provides a list of zones for the selected species.</p>

Record: 1 of 1

frmManageSpecie : Form

Manage Species

Find Specie: Burchardia umbellata

Specie ID: 258

Common Name: Milkmaids

Scientific Name: Burchardia umbellata

Type: Vegetation Native

Add New Type Refresh

Conservation Status:

Type:	StatusValue:
Update	
*	[Auto

Record: 1

Select new conservation status:

Add selected status

Record: 145 of 914



frmManageSpecie : Form

Manage Species

Find Specie:

Specie ID:

Common Name:

Scientific Name:

Type:

Conservation Status:

Type:	StatusValue:
▶ Update	
* [Autoc	

Record:

Select new conservation status:

Record: of 914



frmManageSpecie : Form

Manage Species

Find Specie: Mus domesticus

Specie ID: 192

Common Name: House Mouse

Scientific Name: Mus domesticus

Type: Introduced Fauna

Add New Type Refresh

Conservation Status:

Type:	StatusValue:
Update	
*	{Auto

Record: 1

Select new conservation status:

Add selected status

Record: 598 of 914



frmManageBaseData : Form

City of Onkaparinga Biodiversity Database

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Record: [Navigation icons] 1 of 1

Update Field Inspection

Find by Inspection ID:

Current Inspection ID:

InspectionDetails | Stratum | Description | **Specie List**

Inspection ID:

Common Name:

Scientific Name:

Type:

Record: of 36

Specie:

Record: of 308


Unique Identifier for an inspection

frmManageBaseData : Form

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Record: [Navigation icons] 1 of 1



The screenshot shows a web application titled "Species Location". It features a search interface with a text input field containing "Eucalyptus microcarpa", a "Find Species" button, and a dropdown menu listing various species and their locations. The dropdown menu is currently open, showing a list of items with "Eucalyptus microcarpa Grey Box" selected.

Species	Location
Eucalyptus microcarpa	Grey Box
Eucalyptus Obliqua	Messmate String
Eucalyptus platypus	Road-laved Moor
Eucalyptus porosa	Mallee Box
Eucalyptus sideroxyl	Red Ironbark 'Mu
Eucalyptus spp.	Gum Tree
Eucalyptus torquata	Coral gum
Euphorbia paralias	Sea Spurge

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Microsoft Access - [qrySpeciesLocation : Select Query]

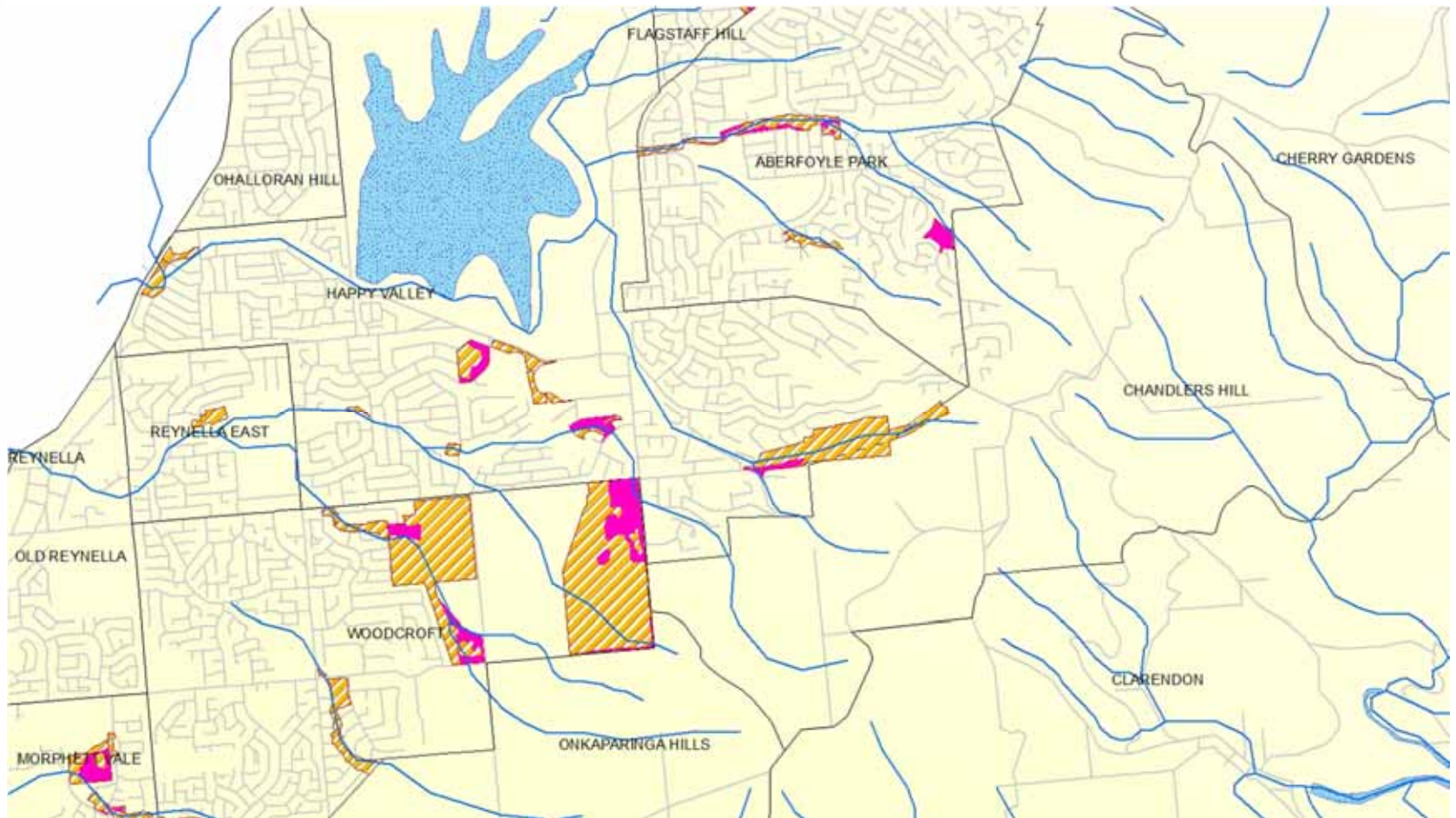
File Edit View Insert Format Records Tools Window Help

ZoneID	Site_Name
1	Sauerbier Creek
3	Sauerbier Creek
6	Sauerbier Creek
14	Pimpala Conservation Reserve
15	Pimpala Conservation Reserve
20	Piggott Range Road Reserve
21	Piggott Range Road Reserve
23	Glenloth Reserve
25	Glenloth Reserve
50	York Drive
51	York Drive
53	Woodland Ridge Reserve
54	Mandilla Reserve
55	Mandilla Reserve
56	Mandilla Reserve
59	McHarg Reserve
60	McHarg Reserve
66	Christie Creek Reserve - Sunningdale to Trainline
67	Christie Creek Reserve - Sunningdale to Trainline
68	Christie Creek Reserve - Sunningdale to Trainline
69	Christie Creek Reserve - Sunningdale to Trainline
73	Christie Creek Reserve - Sunningdale to Trainline
74	Christie Creek Reserve - Sunningdale to Trainline
76	Christie Creek Reserve - Sunningdale to Trainline
91	Jimmy Watson Reserve
92	Tangari Reserve (western section)
93	Tangari Reserve (western section)
95	Tangari Reserve (western section)
96	Tangari Reserve (western section)
97	Jimmy Watson Reserve
104	Tangari Reserve (western section)
107	Tangari Reserve (western section)
108	Tangari Reserve (western section)
110	Tangari Reserve (western section)
111	Tarnnanga Reserve (Christie Creek)

Record: 1 of 66

Unique identifier for a zone





- Eucalyptus microcarpa/Grey Box
- 19 sites/66 zones
- 898 sqm /0.0898 Hectares

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Record: 1 of 1

Enter Parameter Value

Site ID?

Microsoft Access - [qrySpeciePerSite : Select Query]

File Edit View Insert Format Records Tools Window Help

Legend_Id	Name	ZoneID	ZoneDescription	ScientificName	CommonName
15	Tingira Reserve	42	Beach Foreshore	Atriplex paludosa	Marsh Saltbush
15	Tingira Reserve	42	Beach Foreshore	Austrodanthonia spp.	Wallaby Grass
15	Tingira Reserve	42	Beach Foreshore	Dianella brevicaulis	Short-stem Flax-lily
15	Tingira Reserve	42	Beach Foreshore	Disphyma crassifolium ssp.clavellatum	Round-leaf pigface
15	Tingira Reserve	42	Beach Foreshore	Distichlis distichophylla	Australian Salt Grass
15	Tingira Reserve	42	Beach Foreshore	Enchylaena tomentosa	Ruby Saltbush
15	Tingira Reserve	42	Beach Foreshore	Nitraria billardierei	Nitre-bush
15	Tingira Reserve	42	Beach Foreshore	Rhagodia candolleana	Sea-berry Saltbush
15	Tingira Reserve	42	Beach Foreshore	Arctotheca calendula	Cape Weed
15	Tingira Reserve	42	Beach Foreshore	Avena barbata	Bearded Oat
15	Tingira Reserve	42	Beach Foreshore	Bromus madritensis	Compact Brome
15	Tingira Reserve	42	Beach Foreshore	Cakile maritima	Two-horned Sea Rocket
15	Tingira Reserve	42	Beach Foreshore	Conium maculatum	Hemlock
15	Tingira Reserve	42	Beach Foreshore	Cynara cardunculus	Artichoke Thistle
15	Tingira Reserve	42	Beach Foreshore	Cynodon dactylon	Couch
15	Tingira Reserve	42	Beach Foreshore	Echium plantagineum (pp)	Salvation Jane
15	Tingira Reserve	42	Beach Foreshore	Elymus farctus	Sea Wheat-grass
15	Tingira Reserve	42	Beach Foreshore	Euphorbia paralias	Sea Spurge
15	Tingira Reserve	42	Beach Foreshore	Euphorbia terracina (pp)	False Caper
15	Tingira Reserve	42	Beach Foreshore	Galenia secunda	Galenia
15	Tingira Reserve	42	Beach Foreshore	Gazania linearis	Gazania
15	Tingira Reserve	42	Beach Foreshore	Horduem leporinum syn Critesion murinum	Wall barley-grass
15	Tingira Reserve	42	Beach Foreshore	Lagurus ovatus	Hare's tail grass
15	Tingira Reserve	42	Beach Foreshore	Lolium spp.	Ryegrass
15	Tingira Reserve	42	Beach Foreshore	Medicago polymorpha var.polymorpha	Burr-medic
15	Tingira Reserve	42	Beach Foreshore	Moraea setifolia	Thread Iris
15	Tingira Reserve	42	Beach Foreshore	Osteospermum fruiticosum	Freeway Daisy
15	Tingira Reserve	42	Beach Foreshore	Oxalis pes-caprae	Soursob
15	Tingira Reserve	42	Beach Foreshore	Piptatherum miliaceum	Rice Millet
15	Tingira Reserve	42	Beach Foreshore	Plantago lanceolata var.lanceolata	Ribwort
15	Tingira Reserve	42	Beach Foreshore	Reichardia tingitana	False Sowthistle
15	Tingira Reserve	42	Beach Foreshore	Scabiosa atropurpurea	Scabious
15	Tingira Reserve	42	Beach Foreshore	Tetragonia decumbens	Sea Spinach
15	Tingira Reserve	42	Beach Foreshore	Maireana brevifolia	Short-leaf Bluebush
15	Tingira Reserve	42	Beach Foreshore	Maireana oppositifolia	Salt bluebush

Record: 3 of 485

Unique identifier for a zone

Current Inventory

- 48 managed sites
- 306 individual zones
- 1,020 species
- 12,176 individual records of species by zone



STRONG VIBRANT COMMUNITIES



- statistics on current managed sites as per their classification
- statistics on listed endangered communities such as the Grey Box Woodland
- comparison to Pre-European Vegetation
- several maps representing the data

Future Goals

- expand the number and complexity of the queries
- more managed sites to be added
- add condition data
- integrate photographs
- links to documentation

Acknowledgments

- Ben Moulton, Biodiversity Unit
- Steve Romankus, Contractor
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