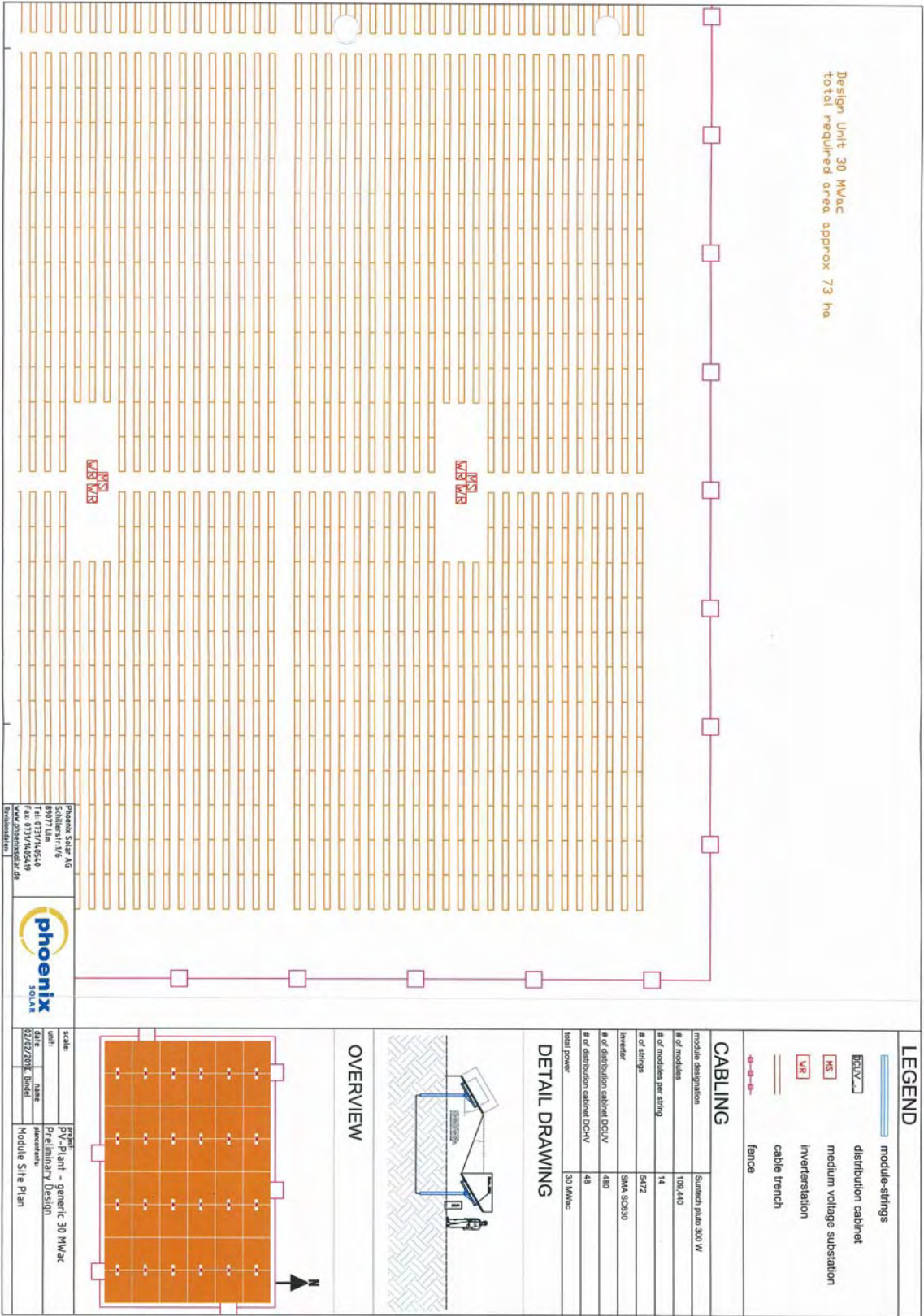
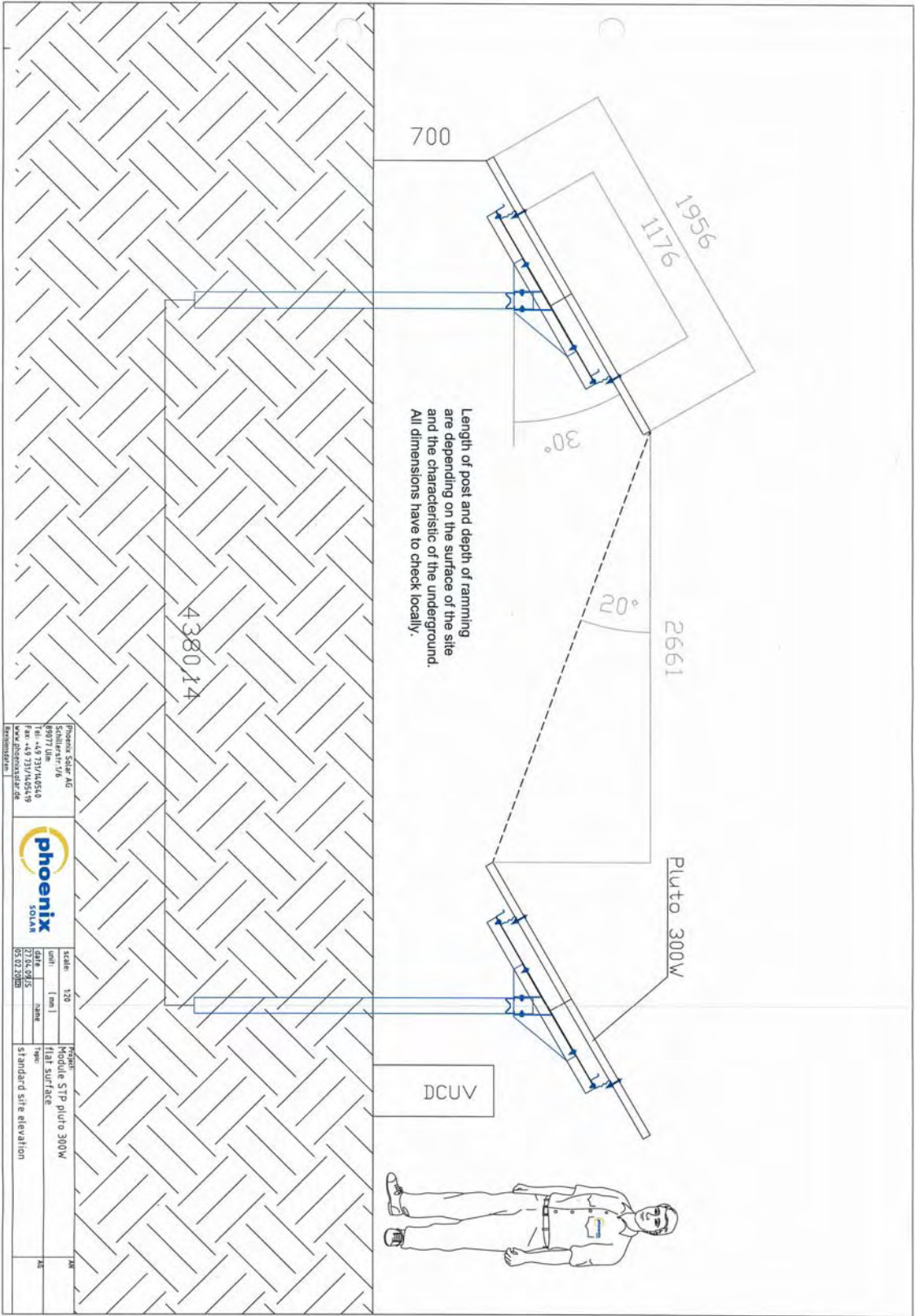


Appendix G Layout and Structural Plans





Appendix H Additional Maps

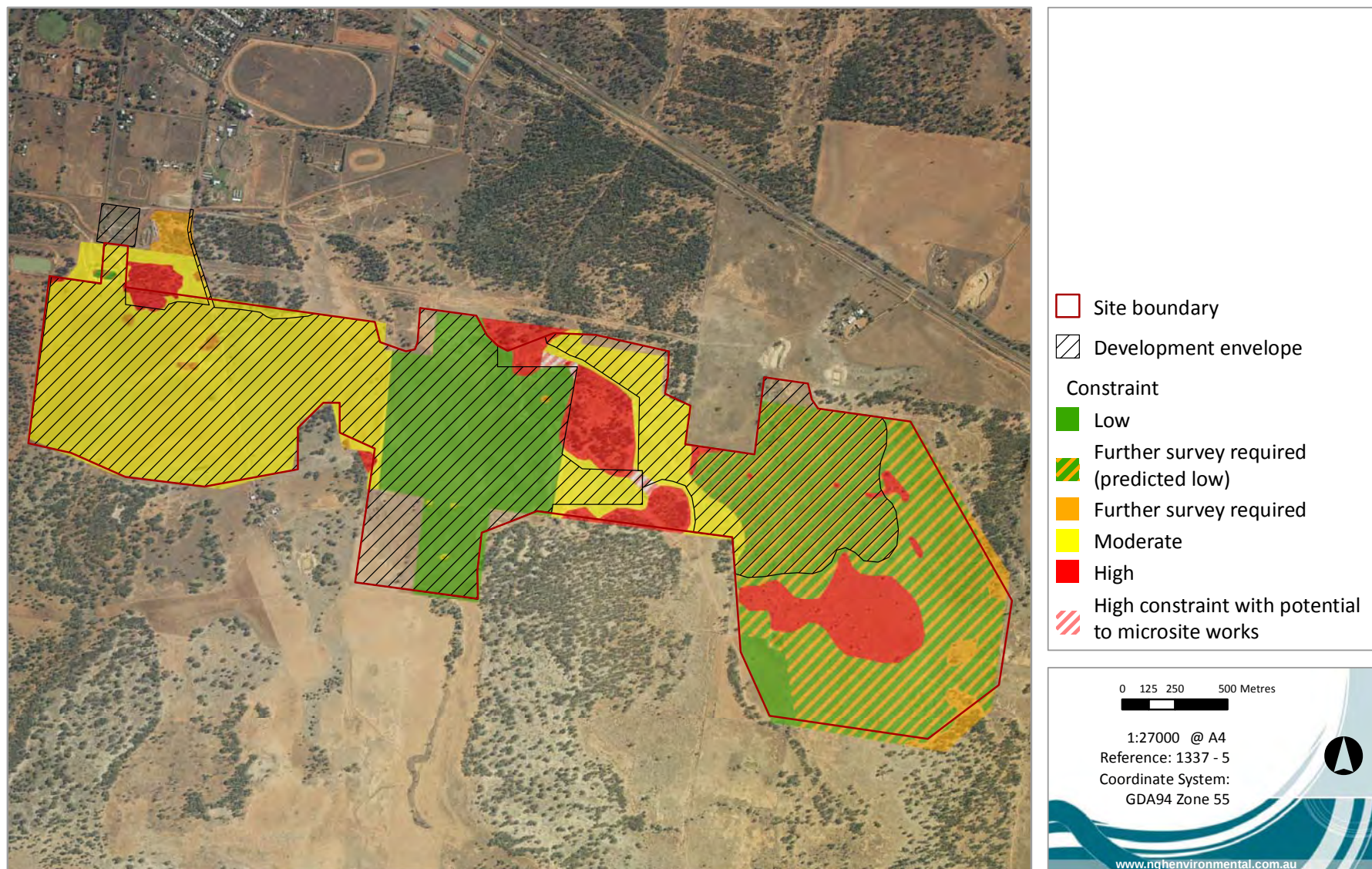


Figure 9-2 Biodiversity constraints overlaid with the development envelope

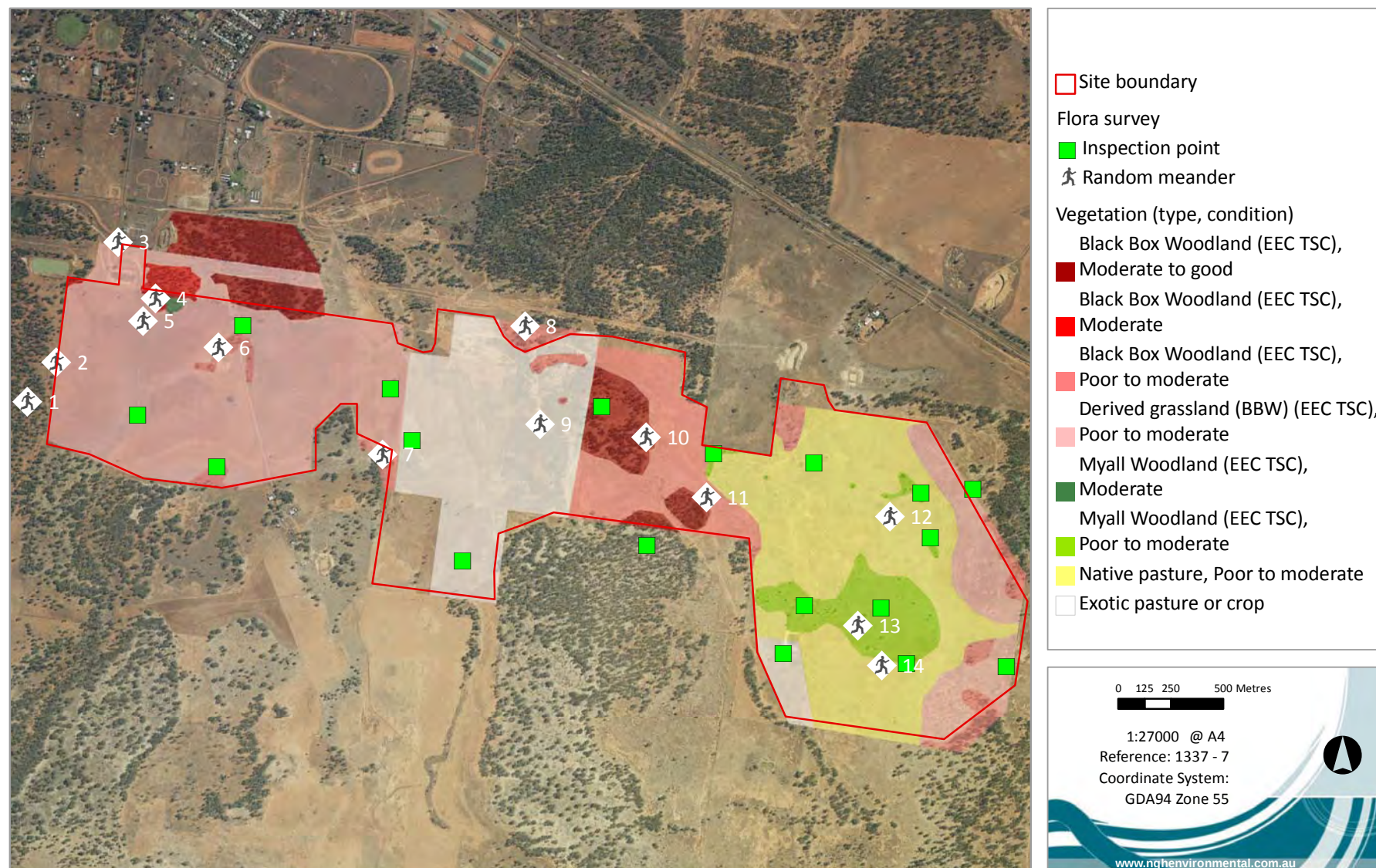


Figure 9-3 Flora survey points and vegetation type

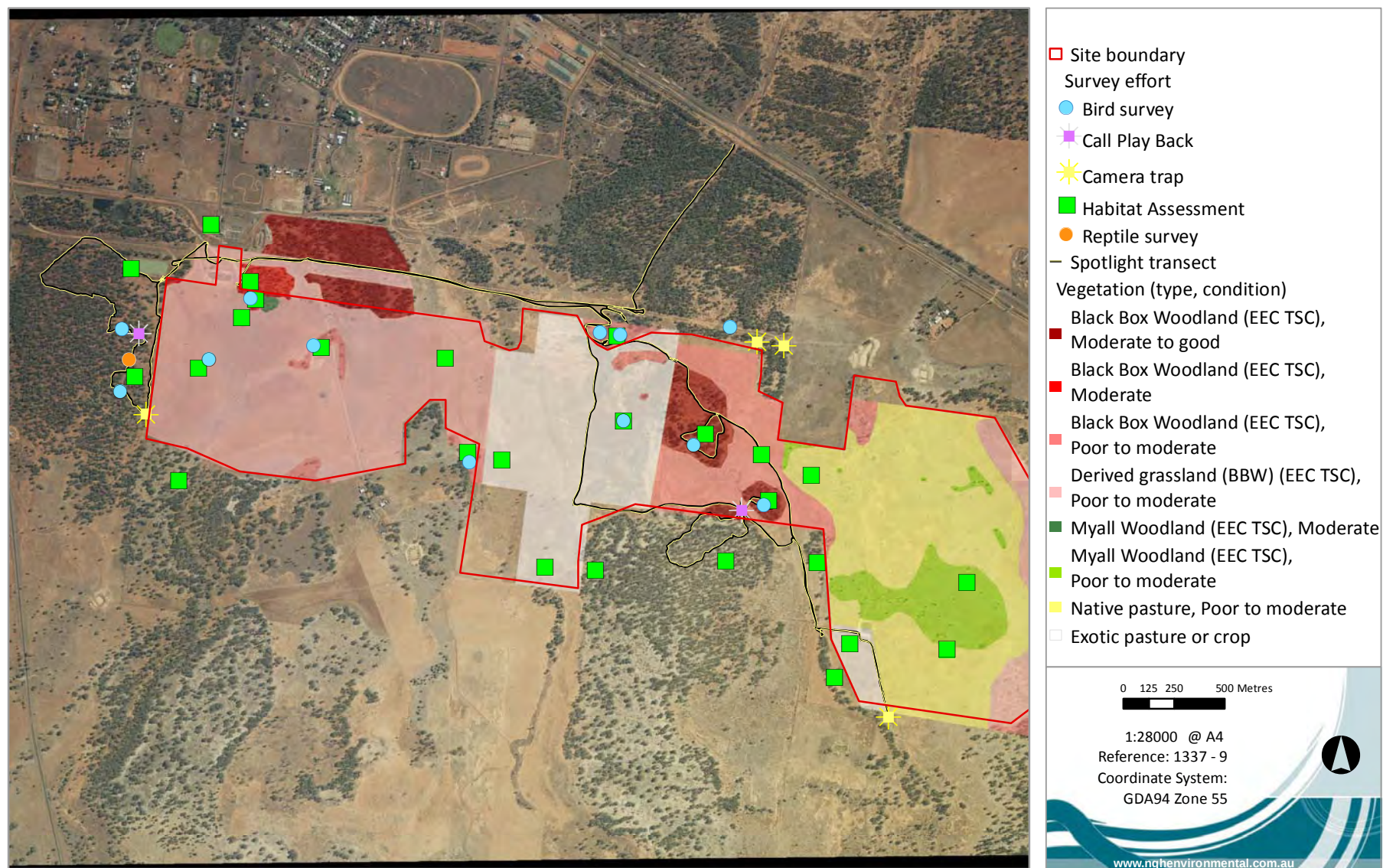
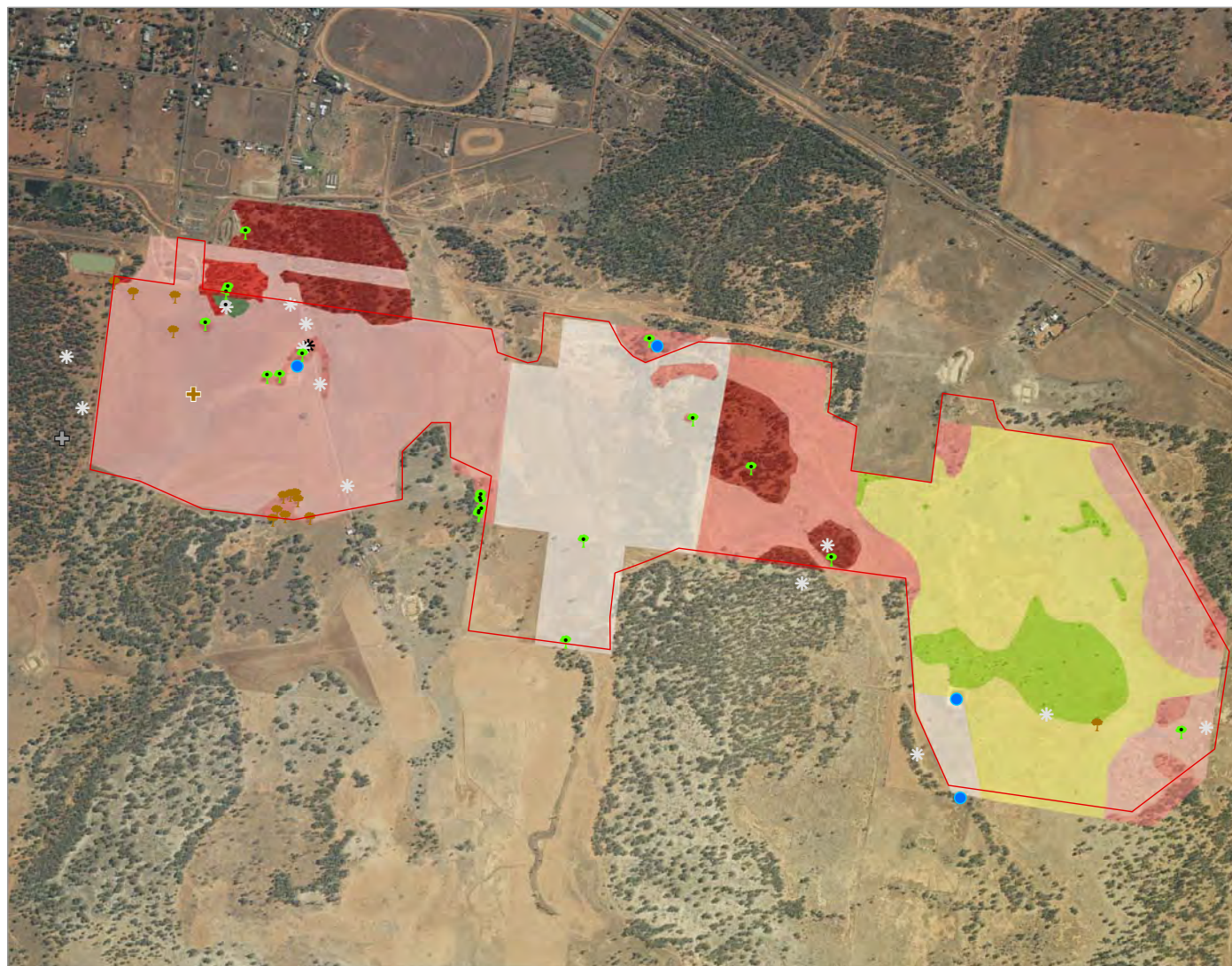


Figure 9-4 Fauna survey effort with vegetation type

HABITAT FEATURES MAP : PROPOSED SOLAR FARM, NYNGAN

Prepared for:

infigen



Site boundary

Habitat feature

Babbler nest

Hollow bearing tree/s

Hollow bearing stag

Black shouldered Kite nest

Timber piles

Pile of iron

Dam

Tree

Vegetation (type, condition)

Black Box Woodland (EEC TSC),
Moderate to goodBlack Box Woodland (EEC TSC),
ModerateBlack Box Woodland (EEC TSC),
Poor to moderateDerived grassland (BBW) (EEC TSC),
Poor to moderateMyall Woodland (EEC TSC),
ModerateMyall Woodland (EEC TSC),
Poor to moderate

Native pasture, Poor to moderate

Exotic pasture or crop

Notes:

1.0 Layers prepared by ngenvironmental based on field work
2.0 Aerial photography provided by Infigen

0 100 200 400 Metres

1:15000 @ A3

Reference: 1337-4

Coord system: GDA 94

Prepared by:



Figure 9-5 Habitat features

Appendix I SITE PHOTOS



Photograph 1. Black Box woodland to the west of the site (off site).



Photograph 2. Grazed native/exotic pasture in the west of the site south of the sub station (Area B1).



Photograph 3. Grazed native/exotic pasture in the far west of the site (Area B1), looking east. Wetter area in foreground.



Photograph 4. Scattered African Boxthorn (declared noxious weed) in western section of the site (Area B1).



Photograph 5. Isolated Leopardwood tree, western section of site (Area B1).



Photograph 6. Disturbance by stock in wetter areas, western section of site (Area B1).



Photograph 7. Small area of Myall woodland, north-west of site (Area B1).



Photograph 8. Scattered Black Box trees adjacent to dam, western section of site (Area B1).



Photograph 9. Grazed native/exotic pasture adjoining area of Black Box woodland south west of site (woodland avoided by Proposal) (Area B2).



Photograph 10. Small area of Black Box woodland within the site boundary, south-west section of site (Area B2).



Photograph 11. Planted exotic pasture, central section of site (Area B3).



Photograph 12. Disturbance by stock, central section of site (Area B4).



Photograph 13. Heavily grazed native/exotic pasture, central section of site (Area B4).



Photograph 14. Bathurst Burr (declared noxious weed), centre section of site (Area B4).



Photograph 15. Planted paddock, southern section of central area (Area B5).



Photograph 16. Cropped area in south-west corner of eastern section (Area B7).



Photograph 17. Myall regeneration in eastern section of site (Area B7).



Photograph 18. Isolated Black Box, far south-east of the site looking toward the south-east corner (Area B7).



Photograph 19. Scattered Myall trees, east of site (Area B7).



Photograph 20. Large expanses of native grassland, east of site (Area B7).



Photograph 21. Stands of Myall in centre portion of the eastern section of the site (Area B7).



Photograph 22. Dam in north-east corner of site (Area B7).



Photograph 23. Grey-crowned Babbler (vulnerable TSC Act) in adjacent woodland, south of site.



Photograph 24. Remaining Black Box woodland, centre of site (Area B6).



Photograph 25 Black Box woodland community, centre of site (Area B6).



Photograph 26. Nyngan sub-station, south side.



Photograph 27. View from sub-station to proposed solar farm site (Area B1) (looking south).



Photograph 28. Western side of sub-station.



Photograph 29. Northern side of the sub-station with planted vegetation.



Photograph 30. Eastern side of sub-station.



Photograph 31. Numerous Green Tree Frogs *Litoria caerulea* were found under dumped corrugated iron in the woodland adjacent to Area B1.



Photograph 32. Tawny Frogmouth in Black Box woodland adjacent to the western boundary of the site



Photograph 33. Salmon-striped Frog *Limnodynastes salmini* found near dam in the south of Area B7.



Photograph 34 Echidnas courting in woodland adjacent to the southern boundary of the site.



Photograph 33 Sunset over farm dam in the north of Area B6.



Photograph 34. Brown Treecreeper roost tree, Area B6 north.

Appendix J Qualifications

Name and role	Specialist skills and abilities
Nick Graham-Higgs B. Sc. (Ecol), MEIANZ, Assoc. Auditor (EMS Certification, Qual. Soc. Aust.) Project Director	Nick has worked as an environmental planning consultant since 1992, specialising in natural resource management. He has completed a wide range of assignments covering diverse natural and modified environments. Much of the work undertaken has been within higher altitude environments of NSW, being contracted by organisations such as Meridian, Epuron, Wind Prospects, Telstra, RTA, Snowy Hydro, Country Energy, Kosciuszko Thredbo Pty Ltd, the Parks & Wildlife Division of the Department of Environment and Climate Change (DECC), a number of councils (eg. Snowy River, Bega, Eurobodalla, Shoalhaven and Bombala Shire Councils), and a number of private clients. Work undertaken includes the preparation of varied and complex environmental planning, environmental impact assessments, natural resource surveys (flora and fauna surveys and assessments) and the preparation of environmental management plans. Nick has been Project Director of a number of Part 3A Environmental and Biodiversity Assessments, including for a number of significant renewable energy projects.
Andrew Morrison B. Sc. (Res. Env. Man.) Project Officer (Zoology)	Andrew has a wide range of professional experience in land management specializing in biodiversity (pest/weed and threatened species) monitoring and management. For the five years previous to being employed with nghenvironmental Andrew has worked as a ranger in both the ACT and New Zealand. Prior to this he worked on the development of sustainable cropping systems for the CSIRO Division of Crop Adaptation. Andrew has a bachelor degree in Science Resource and Environmental Management from the ANU specialising in ecology. Andrew has worked on many threatened species recovery programs including five threatened species translocations and has designed novel monitoring techniques to assist with the evaluation of this work. He has undertaken survey projects on marine mammals, threatened invertebrates, birds, reptiles and mammals and has built up a sound knowledge of survey design and project management in the process. Andrew has undertaken zoological assessment for 3 wind farm proposals. He is also providing specialist advice in relation to a bat research program for a wind farm in the southern Highlands of NSW.
Dave Maynard BSc Biological Ecology (Hons1) Project Officer (Ecology)	David has undertaken numerous botanical assessments, and has worked on Biodiversity Assessments, Biodiversity Constraints Analysis, Reviews of Environmental Factors and reviews of external Flora and Fauna Assessments while employed with nghenvironmental. This has included for three broad scale wind farm proposals. Dave has also worked with indigenous horticultural enterprises and organisations to promote horticultural and community development on indigenous land. He holds NSW NPWS Scientific License and 4WD Training

Appendix K Vegetation clearing guidelines

VEGETATION CLEARING GUIDELINES

General clearing and trimming guidelines

- Tree and shrub removal should aim to minimise disturbance to soils, waterways and neighbouring vegetation. This may be achieved using a chainsaw for felling and a small excavator to remove the stump, working from disturbed ground where practicable.
- Non-hollow bearing vegetation should only be removed between January and July to avoid the breeding seasons of most forest and woodland fauna.
- Check for animals in the zone of disturbance before clearing and scare or remove them before beginning operations where possible. Re-check after clearing to ensure no animals have become trapped or injured during clearing operations.
- Clearly mark the limits of the vegetation to be removed and retained by differentiating with coloured flagging tape.
- Fell trees into the zone of disturbance to avoid damaging adjacent vegetation and do not push felled vegetation into areas to be retained.
- Retain tree hollows where practical when pruning branches.
- Take care when moving equipment near native vegetation to be retained.
- Mulch rather than burn cleared native vegetation. Where possible, consider distributing some logs from the felled trees into areas of vegetation to be retained where it would not be considered a fire hazard. This would provide additional habitat for ground dwelling fauna such as reptiles and small mammals.

Clearing Hollow Bearing Trees

- Medium and large trees with hollows or cracks which may be used by fauna such as mammals, birds and bats which are required to be removed should be inspected prior to removal.
- Hollow-bearing tree (HBT) removal should be conducted between January to March to avoid the breeding seasons of bats, birds and hollow-bearing dependant fauna.
- Clearly mark the HBT to be removed and/or retained by differentiating with coloured flagging tape.
- Remove all non-hollow bearing vegetation prior to the removal of HBT.
- Where possible, leave HBT standing for at least one night after other clearing to allow any fauna the opportunity to remove themselves after site disturbance.
- Before felling HBT, tap along trunk using an excavator or loader to scare animals from the hollows. Repeat several times. The aim of this is to 'substantially' shake the tree. Most fauna will exit the tree during this process.
- For medium-large hollow-bearing trees which may contain arboreal mammals, sectional removal should be used with a suitably qualified and licensed zoologist or trained wildlife carer present. This person should ensure that any fauna found is safely located to nearby habitat.

- When using sectional removal, the non-hollow-bearing branches should be removed before the hollow-bearing branches.

Use and disposal of cleared vegetation

- Non-weedy vegetation can be mulched and re-used for site stabilisation and rehabilitation. Vegetation that contains weeds should not be re-used as mulch on any part of the site.
- Large tree trunks and limbs, particularly hollows, may be useful for ground habitat restoration or resnagging projects either near or distant from the clearing site. These resources may be stored at an appropriate site until a suitable project is found.
- Mulched plant material should be shredded when it is first cut, and allowed to decompose while the works are carried out. The decomposing pile should be stockpiled in a weed free area and turned weekly to prevent overheating and possible spontaneous combustion.
- Loose mulch should not be used in areas subject to significant surface water flows during rain.
- Cleared vegetation that is not needed for mulch should be removed from the site or burnt in an open area, well away from retained trees, intact native vegetation and runoff flow paths.

Appendix L DATABASE SEARCHES

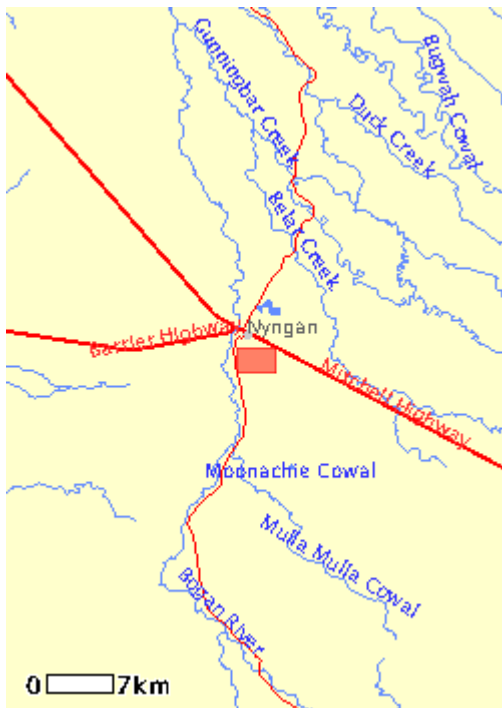
EPBC ACT PROTECTED MATTERS REPORT

19 August 2010 22:57

This report provides general guidance on matters of national environmental significance and other matters protected by the EPBC Act in the area you have selected. Information on the coverage of this report and qualifications on data supporting this report are contained in the [caveat](#) at the end of the report.

You may wish to print this report for reference before moving to other pages or websites.

The Australian Natural Resources Atlas at <http://www.environment.gov.au/atlas> may provide further environmental information relevant to your selected area. Information about the EPBC Act including significance guidelines, forms and application process details can be found at <http://www.environment.gov.au/epbc/assessmentsapprovals/index.html>



This map may contain data which are
© Commonwealth of Australia
(Geoscience Australia)
© PSMA Australia Limited

Search Type: Area

Buffer: 25 km

Coordinates: -31.57846,147.18237, -31.60623,147.18237, -
31.60623,147.22653, -31.57846,147.22653



Summary

Matters of National Environmental Significance

This part of the report summarises the matters of national environmental significance that may occur in, or may relate to, the area you nominated. Further information is available in the detail part of the report, which can be accessed by scrolling or following the links below. If you are proposing to undertake an activity that may have a significant impact on one or more matters of national environmental significance then you should consider the Administrative Guidelines on Significance - see <http://www.environment.gov.au/epbc/assessmentsapprovals/guidelines/index.html>.

World Heritage Properties: None

National Heritage Places: None

Wetlands of International Significance: 1
(Ramsar Sites)

Commonwealth Marine Areas: None

Threatened Ecological Communities: 2

Threatened Species: 6

Migratory Species: 11

Other Matters Protected by the EPBC Act

This part of the report summarises other matters protected under the Act that may relate to the area you nominated. Approval may be required for a proposed activity that significantly affects the environment on Commonwealth land, when the action is outside the Commonwealth land, or the environment anywhere when the action is taken on Commonwealth land. Approval may also be required for the Commonwealth or Commonwealth agencies proposing to take an action that is likely to have a significant impact on the environment anywhere.

The EPBC Act protects the environment on Commonwealth land, the environment from the actions taken on Commonwealth land, and the environment from actions taken by Commonwealth agencies. As heritage values of a place are part of the 'environment', these aspects of the EPBC Act protect the Commonwealth Heritage values of a Commonwealth Heritage place and the heritage values of a place on the Register of the National Estate. Information on the new heritage laws can be found at <http://www.environment.gov.au/heritage/index.html>.

Please note that the current dataset on Commonwealth land is not complete. Further information on Commonwealth land would need to be obtained from relevant sources including Commonwealth agencies, local agencies, and land tenure maps.

A permit may be required for activities in or on a Commonwealth area that may affect a member of a listed threatened species or ecological community, a member of a listed migratory species, whales and other cetaceans, or a member of a listed marine species. Information on EPBC Act permit requirements and application forms can be found at <http://www.environment.gov.au/epbc/permits/index.html>.

Commonwealth Lands: 2

Commonwealth Heritage Places:	None
Places on the RNE:	None
Listed Marine Species:	8
Whales and Other Cetaceans:	None
Critical Habitats:	None
Commonwealth Reserves:	None

Extra Information

This part of the report provides information that may also be relevant to the area you have nominated.

State and Territory Reserves:	None
Other Commonwealth Reserves:	None
Regional Forest Agreements:	None

Details

Matters of National Environmental Significance

Wetlands of International Significance (Ramsar Sites)	[Dataset Information]
---	---

[MACQUARIE MARSHES NATURE RESERVE](#) Within same catchment as Ramsar site

Threatened Ecological Communities [Dataset Information]	Status	Type of Presence
---	--------	------------------

[Grey Box \(*Eucalyptus microcarpa*\) Grassy Woodlands and Derived Native Grasslands of South-eastern Australia](#) Endangered Community may occur within area

[Weeping Myall Woodlands](#) Endangered Community likely to occur within area

Threatened Species [Dataset Information]	Status	Type of Presence
--	--------	------------------

Birds[Leipoa ocellata](#)

Malleefowl

Vulnerable Species or species habitat likely to occur within area

[Polytelis swainsonii](#)

Superb Parrot

Vulnerable Species or species habitat likely to occur within area

[Rostratula australis](#)

Australian Painted Snipe

Vulnerable Species or species habitat may occur within area

Mammals[Nyctophilus timoriensis \(South-eastern form\)](#)

Greater Long-eared Bat, South-eastern Long-eared Bat

Vulnerable Species or species habitat may occur within area

Ray-finned fishes[Maccullochella peelii peelii](#)

Murray Cod, Cod, Goodoo

Vulnerable Species or species habitat may occur within area

Plants[Diuris sheaffiana](#)

Tricolour Diuris

Vulnerable Species or species habitat may occur within area

Migratory Species [[Dataset Information](#)]

Status

Type of Presence

Migratory Terrestrial Species**Birds**[Haliaeetus leucogaster](#)

White-bellied Sea-Eagle

Migratory Species or species habitat likely to occur within area

[Hirundapus caudacutus](#)

White-throated Needletail

Migratory Species or species habitat may occur within area

[Leipoa ocellata](#)

Malleefowl

Migratory Species or species habitat likely to occur within area

[Merops ornatus](#)

Rainbow Bee-eater

Migratory Species or species habitat may occur within area

Migratory Wetland Species

Birds[Ardea alba](#)

Great Egret, White Egret

Migratory

Species or species habitat may occur within area

[Ardea ibis](#)

Cattle Egret

Migratory

Species or species habitat may occur within area

[Gallinago hardwickii](#)

Latham's Snipe, Japanese Snipe

Migratory

Species or species habitat may occur within area

[Rostratula benghalensis s. lat.](#)

Painted Snipe

Migratory

Species or species habitat may occur within area

Migratory Marine Birds[Apus pacificus](#)

Fork-tailed Swift

Migratory

Species or species habitat may occur within area

9.1.1

[Ardea alba](#)

Great Egret, White Egret

Migratory

Species or species habitat may occur within area

[Ardea ibis](#)

Cattle Egret

Migratory

Species or species habitat may occur within area

Other Matters Protected by the EPBC ActListed Marine Species [[Dataset Information](#)]

Status

Type of Presence

Birds[Apus pacificus](#)

Fork-tailed Swift

Listed - overfly marine area

Species or species habitat may occur within area

[Ardea alba](#)

Great Egret, White Egret

Listed - overfly marine area

Species or species habitat may occur within area

[Ardea ibis](#)

Cattle Egret

Listed - overfly marine area

Species or species habitat may occur within area

[Gallinago hardwickii](#)

Latham's Snipe, Japanese Snipe

Listed - overfly marine area

Species or species habitat may occur within area

[Haliaeetus leucogaster](#)

Listed

Species or species habitat likely to occur

White-bellied Sea-Eagle		within area
<u>Hirundapus caudacutus</u> White-throated Needletail	Listed - overfly marine area	Species or species habitat may occur within area
<u>Merops ornatus</u> Rainbow Bee-eater	Listed - overfly marine area	Species or species habitat may occur within area
<u>Rostratula benghalensis s. lat.</u> Painted Snipe	Listed - overfly marine area	Species or species habitat may occur within area

Commonwealth Lands [[Dataset Information](#)]

Commonwealth Trading Bank of Australia

Communications, Information Technology and the
Arts - Telstra Corporation Limited

Appendix M Raw Data

Listed threatened species are highlighted.

Coordinates:

Collected with a Magellan Triton hand held GPS using GDA94 datum - average error 5m

Activity:

CPB= Call play back

Foot spot= foot spotlight

Vehicle spot= vehicle spotlight

Location:

H#= habitat assessment site (see Appendix O for site descriptions)

Onsite:

Describes if the species was detected onsite or offsite in adjacent vegetation (for example a call was heard offsite from an onsite sampling point)

Obs. (Observations):

O= observed

H= heard

S=sign

No. = number of that species see during the particular survey

Lat	Long	Date	activity	Start Time 24 hr	Finish Time 24 hr	TOTAL MINUTES	Common Name	Scientific Name	Location	Onsite	Obs.	No.	conditions
-31.5825661	147.2181353	6/07/2010	Bird	1710	1730	20	Galah	<i>Cacatua roseicapilla</i>	off site Nth	N	O	2	cool still clear
-31.5825661	147.2181353	6/07/2010	Bird				Common Starling	<i>Sturnus vulgaris</i>	off site Nth	Y	O	5	cool still clear
-31.5825661	147.2181353	6/07/2010	Bird				Australian Magpie	<i>Gymnorhina tibicen</i>	off site Nth	N	H	.	cool still clear
-31.5825661	147.2181353	6/07/2010	Bird				Noisy Miner	<i>Manorina melanocephala</i>	off site Nth	Y	H	.	cool still clear
-31.5825661	147.2181353	6/07/2010	Bird				Magpie-lark	<i>Grallina cyanoleuca</i>	off site Nth	N	H	.	cool still clear
-31.5825661	147.2181353	6/07/2010	Bird				Brown Falcon	<i>Falco berigora</i>	off site Nth	N	O	1	cool still clear
-31.5825661	147.2181353	6/07/2010	Bird				Willie Wagtail	<i>Rhipidura leucophrys</i>	off site Nth	N	O	1	cool still clear
-31.5825661	147.2181353	6/07/2010	Opportunistic				Swamp Wallaby	<i>Wallabia bicolor</i>	off site Nth	N	O	1	cool still clear
-31.5825661	147.2181353	6/07/2010	Opportunistic				Brown Hare	<i>Lepus capensis</i>	off site Nth	N	O	1	cool still clear
-31.5825661	147.2181353	6/07/2010	Opportunistic				European Rabbit	<i>Oryctolagus cuniculus</i>	off site Nth	N	O	2	cool still clear
-31.5840200	147.1910100	7/07/2010	Bird	845	905	20	Striated Pardalote	<i>Pardalotus striatus</i>	H1	N	H	.	cool, E breeze, high cloud 7/8
-31.5840200	147.1910100	7/07/2010	Bird				Australian Magpie	<i>Gymnorhina tibicen</i>	H1	Y	O	2	cool, E breeze, high cloud 7/8
-31.5840200	147.1910100	7/07/2010	Bird				Richard's Pipit	<i>Anthus novaeseelandiae</i> <i>Corcorax</i>	H1	Y	O	1	cool, E breeze, high cloud 7/8
-31.5840200	147.1910100	7/07/2010	Bird				White-winged Chough	<i>melanorhamphos</i>	H1	N	H	.	cool, E breeze, high cloud 7/8
-31.5840200	147.1910100	7/07/2010	Bird				Australian Raven	<i>Corvus coronoides</i>	H1	Y	H	.	cool, E breeze, high cloud 7/8
-31.5840200	147.1910100	7/07/2010	Bird				Magpie-lark	<i>Grallina cyanoleuca</i>	H1	Y	O	2	cool, E breeze, high cloud 7/8
-31.5840200	147.1910100	7/07/2010	Bird				Noisy Miner	<i>Manorina melanocephala</i>	H1	Y	O	4	cool, E breeze, high cloud 7/8
-31.5840200	147.1910100	7/07/2010	Bird				Pied Butcherbird	<i>Cracticus nigrogularis</i>	H1	N	O	2	cool, E breeze, high cloud 7/8
-31.5840200	147.1910100	7/07/2010	Bird				Grey Shrike-thrush	<i>Colluricincla harmonica</i>	H1	N	H	.	cool, E breeze, high cloud 7/8
-31.5840200	147.1910100	7/07/2010	Bird				Willie Wagtail	<i>Rhipidura leucophrys</i>	H1	N	O	2	cool, E breeze, high cloud 7/8
-31.5840200	147.1910100	7/07/2010	Bird				Whistling Kite	<i>Haliastur sphenurus</i>	H1	Y	O	1	cool, E breeze, high cloud 7/8
-31.5854700	147.1863900	7/07/2010	Bird	930	950	20	Yellow-rumped Thornbill	<i>Acanthiza chrysorrhoa</i>	H3	N	O	4	cool, E breeze, high cloud 7/8
-31.5854700	147.1863900	7/07/2010	Bird				Grey Fantail	<i>Rhipidura fuliginosa</i>	H3	N	O	1	cool, E breeze, high cloud 7/8
-31.5854700	147.1863900	7/07/2010	Bird				Rufous Whistler	<i>Pachycephala rufiventris</i>	H3	N	H	.	cool, E breeze, high cloud 7/8
-31.5854700	147.1863900	7/07/2010	Bird				Blue Bonnet	<i>Northiella haematogaster</i>	H3	N	O	5	cool, E breeze, high cloud 7/8
-31.5854700	147.1863900	7/07/2010	Bird				Inland Thornbill	<i>Acanthiza apicalis</i>	H3	N	O	3	cool, E breeze, high cloud 7/8

-31.5854700	147.1863900	7/07/2010	Bird				White-plumed Honeyeater	<i>Lichenostomus penicillatus</i>	H3	N	O	2	cool, E breeze, high cloud 7/8
-31.5854700	147.1863900	7/07/2010	Bird				Buff-rumped Thornbill	<i>Acanthiza reguloides</i>	H3	N	O	4	cool, E breeze, high cloud 7/8
-31.5854700	147.1863900	7/07/2010	Bird				White-winged Chough	<i>Corcorax melanorhamphos</i>	H3	N	O	9	cool, E breeze, high cloud 7/8
-31.5813310	147.1931969	7/07/2010	Bird	1040	1100	20	Noisy Miner	<i>Manorina melanocephala</i>	H5	Y	H	.	cool, E breeze, high cloud 7/8
-31.5813310	147.1931969	7/07/2010	Bird				Blue Bonnet	<i>Northiella haematogaster</i>	H5	Y	O	2	cool, E breeze, high cloud 7/8
-31.5813310	147.1931969	7/07/2010	Bird				Crested Pigeon	<i>Ocyphaps lophotes</i>	H5	Y	O	6	cool, E breeze, high cloud 7/8
-31.5813310	147.1931969	7/07/2010	Bird				Chestnut-crowned Babbler	<i>Pomatostomus ruficeps</i>	H5	Y	O	7	cool, E breeze, high cloud 7/8
-31.5813310	147.1931969	7/07/2010	Bird				Australian Magpie	<i>Gymnorhina tibicen</i>	H5	Y	O	3	cool, E breeze, high cloud 7/8
-31.5813310	147.1931969	7/07/2010	Bird				Australian Raven	<i>Corvus coronoides</i>	H5	Y	O	1	cool, E breeze, high cloud 7/8
-31.5834036	147.1964659	7/07/2010	Bird	1130	1140	20	Pied Butcherbird	<i>Cracticus nigrogularis</i>	H6	Y	O	1	cool, E breeze, high cloud 7/8
-31.5834036	147.1964659	7/07/2010	Bird				Red-rumped Parrot	<i>Psephotus haematonotus</i>	H6	Y	O	7	cool, E breeze, high cloud 7/8
-31.5834036	147.1964659	7/07/2010	Bird				Black Kite	<i>Milvus migrans</i>	H6	Y	O	1	cool, E breeze, high cloud 7/8
-31.5834036	147.1964659	7/07/2010	Bird				Whistling Kite	<i>Haliastur sphenurus</i>	H6	Y	O	2	cool, E breeze, high cloud 7/8
-31.5834036	147.1964659	7/07/2010	Bird				Australian Wood Duck	<i>Chenonetta jubata</i>	H6	Y	O	8	cool, E breeze, high cloud 7/8
-31.5834036	147.1964659	7/07/2010	Bird				Australasian Grebe	<i>Tachybaptus novaehollandiae</i>	H6	Y	O	1	cool, E breeze, high cloud 7/8
-31.5834036	147.1964659	7/07/2010	Bird				Laughing Kookaburra	<i>Dacelo novaeguineae</i>	H6	Y	H	.	cool, E breeze, high cloud 7/8
-31.5834036	147.1964659	7/07/2010	Bird				Galah	<i>Cacatua roseicapilla</i>	H6	Y	O	3	cool, E breeze, high cloud 7/8
-31.5834036	147.1964659	7/07/2010	Bird				Common Starling	<i>Sturnus vulgaris</i>	H6	Y	O	5	cool, E breeze, high cloud 7/8
-31.5834036	147.1964659	7/07/2010	Bird				Australian Magpie	<i>Gymnorhina tibicen</i>	H6	Y	O	2	cool, E breeze, high cloud 7/8
-31.5834036	147.1964659	7/07/2010	Bird				Noisy Miner	<i>Manorina melanocephala</i>	H6	Y	O	6	cool, E breeze, high cloud 7/8
-31.5834036	147.1964659	7/07/2010	Bird				Crested Pigeon	<i>Ocyphaps lophotes</i>	H6	Y	O	6	cool, E breeze, high cloud 7/8
-31.5834036	147.1964659	7/07/2010	Bird				Pacific Black Duck	<i>Anas superciliosa</i>	H6	Y	O	2	cool, E breeze, high cloud 7/8
-31.5834036	147.1964659	7/07/2010	Bird				Port Lincoln Ringneck	<i>Barnardius zonarius</i>	H6	Y	O	2	cool, E breeze, high cloud 7/8
-31.5834036	147.1964659	7/07/2010	Bird				Magpie-lark	<i>Grallina cyanoleuca</i>	H6	Y	O	1	cool, E breeze, high cloud 7/8
-31.5885964	147.2045923	7/07/2010	Bird	1220	1240	20	Little Raven	<i>Corvus mellori</i>	H8	Y	O	12	cool, E breeze, high cloud 7/8
-31.5885964	147.2045923	7/07/2010	Bird				Common Starling	<i>Sturnus vulgaris</i>	H8	Y	O	15	cool, E breeze, high cloud 7/8
-31.5885964	147.2045923	7/07/2010	Bird				Noisy Miner	<i>Manorina melanocephala</i>	H8	Y	O	5	cool, E breeze, high cloud 7/8
-31.5885964	147.2045923	7/07/2010	Bird				Crested Pigeon	<i>Ocyphaps lophotes</i>	H8	Y	O	10	cool, E breeze, high cloud 7/8

-31.5885964	147.2045923	7/07/2010	Bird				Magpie-lark	<i>Grallina cyanoleuca</i>	H8	Y	H	2	cool, E breeze, high cloud 7/8
-31.5885964	147.2045923	7/07/2010	Bird				Galah	<i>Cacatua roseicapilla</i>	H8	Y	O	21	cool, E breeze, high cloud 7/8
-31.5885964	147.2045923	7/07/2010	Bird				Red-rumped Parrot	<i>Psephotus haematonotus</i>	H8	Y	O	9	cool, E breeze, high cloud 7/8
-31.5885964	147.2045923	7/07/2010	Bird				Pied Butcherbird	<i>Cracticus nigrogularis</i>	H8	Y	O	2	cool, E breeze, high cloud 7/8
-31.5885964	147.2045923	7/07/2010	Bird				Australian Raven	<i>Corvus coronoides</i>	H8	Y	O	3	cool, E breeze, high cloud 7/8
-31.5885964	147.2045923	7/07/2010	Bird				Black Kite	<i>Milvus migrans</i>	H8	Y	O	1	cool, E breeze, high cloud 7/8
-31.5885964	147.2045923	7/07/2010	Bird				Wedge-tailed Eagle	<i>Aquila audax</i>	H8	N	O	2	cool, E breeze, high cloud 7/8
-31.5885964	147.2045923	7/07/2010	Bird				Australian White Ibis	<i>Threskiornis molucca</i>	H8	N	O	5	cool, E breeze, high cloud 7/8
-31.5885964	147.2045923	7/07/2010	Bird				Apostlebird	<i>Struthidea cinerea</i>	H8	Y	O	8	cool, E breeze, high cloud 7/8
-31.5828913	147.2124173	7/07/2010	Bird	1430	1450	20	Pied Butcherbird	<i>Cracticus nigrogularis</i>	H10	Y	O	2	cool, E breeze, high cloud 7/8
-31.5828913	147.2124173	7/07/2010	Bird				Chestnut-crowned Babbler	<i>Pomatostomus ruficeps</i>	H10	Y	O	6	cool, E breeze, high cloud 7/8
-31.5828913	147.2124173	7/07/2010	Bird				Magpie-lark	<i>Grallina cyanoleuca</i>	H10	Y	O	2	cool, E breeze, high cloud 7/8
-31.5828913	147.2124173	7/07/2010	Bird				Blue Bonnet	<i>Northiella haematogaster</i>	H10	Y	O	3	cool, E breeze, high cloud 7/8
-31.5828913	147.2124173	7/07/2010	Bird				Brown Treecreeper	<i>Climacteris picumnus</i>	H10	Y	O	4	cool, E breeze, high cloud 7/8
-31.5828913	147.2124173	7/07/2010	Bird				Galah	<i>Cacatua roseicapilla</i>	H10	Y	O	6	cool, E breeze, high cloud 7/8
-31.5828913	147.2124173	7/07/2010	Bird				Noisy Miner	<i>Manorina melanocephala</i>	H10	Y	O	5	cool, E breeze, high cloud 7/8
-31.5828913	147.2124173	7/07/2010	Bird				Variegated Fairy-wren	<i>Malurus lamberti</i>	H10	Y	O	5	cool, E breeze, high cloud 7/8
-31.5828913	147.2124173	7/07/2010	Bird	1530	1550	20	Australian Magpie	<i>Gymnorhina tibicen</i>	H11	Y	O	1	cool, E breeze, high cloud 7/8
-31.5828913	147.2124173	7/07/2010	Bird				Australian Raven	<i>Corvus coronoides</i>	H11	Y	H	.	cool, E breeze, high cloud 7/8
-31.5828913	147.2124173	7/07/2010	Bird				Little Raven	<i>Corvus mellori</i>	H11	Y	O	3	cool, E breeze, high cloud 7/8
-31.5828913	147.2124173	7/07/2010	Bird				Black Kite	<i>Milvus migrans</i>	H11	Y	O	1	cool, E breeze, high cloud 7/8
-31.5828913	147.2124173	7/07/2010	Bird				Noisy Miner	<i>Manorina melanocephala</i>	H11	N	H	.	cool, E breeze, high cloud 7/8
-31.5828913	147.2124173	7/07/2010	Bird				White-winged Chough	<i>Corcorax melanorhamphos</i>	H11	N	O	7	cool, E breeze, high cloud 7/8
-31.5828913	147.2124173	7/07/2010	Opportunistic				Salmon-striped Frog	<i>Limnodynastes salmini</i>	H14	Y	O	1	cool, E breeze, high cloud 7/8
-31.5828913	147.2124173	7/07/2010	vehicle spot	1910	1940	30	European Rabbit	<i>Oryctolagus cuniculus</i>	off site Nth	N	O	2	Breezy, cool clearing from 6/8 to 4/8 cloud
-31.5828913	147.2124173	7/07/2010	foot spot	1940	1910	30	nil		H17				Breezy, cool clearing from 6/8 to 4/8 cloud
-31.5907100	147.2187710	7/07/2010	CPB	2010	2030	20	nil		H19				Breezy, cool clearing from 6/8 to 4/8 cloud

-31.5907100	147.2187710	7/07/2010	foot spot	2030	2100	30	Eastern Grey Kangaroo	<i>Macropus giganteus</i>	H23	N	O	4	Breezy, cool clearing from 6/8 to 4/8 cloud
-31.5907100	147.2187710	7/07/2010	foot spot				Common Brushtail Possum	<i>Trichosurus vulpecula</i>	H23	N	O	1	Breezy, cool clearing from 6/8 to 4/8 cloud
-31.5907100	147.2187710	7/07/2010	foot spot				Short-beaked Echidna	<i>Tachyglossus aculeatus</i>	H23	N	O	4	Breezy, cool clearing from 6/8 to 4/8 cloud
-31.5907100	147.2187710	7/07/2010	vehicle spot	2100	2120	20	nil						Breezy, cool clearing from 6/8 to 4/8 cloud
-31.5828842	147.1873620	7/07/2010	CPB	2120	2140	20	nil		H19				Breezy, cool clearing from 6/8 to 4/8 cloud
-31.5828842	147.1873620	7/07/2010	foot spot	2140	2220	40	Red Fox	<i>Vulpes vulpes</i>	H3	N	O	1	Breezy, cool clearing from 6/8 to 4/8 cloud
-31.5828842	147.1873620	7/07/2010	foot spot				Tawny Frogmouth	<i>Podargus strigoides</i>	H3	N	O	2	Breezy, cool clearing from 6/8 to 4/8 cloud
-31.5828842	147.1873620	7/07/2010	foot spot				Stumpy-tailed Lizard	<i>Tiliqua rugosa</i>	H3	N	O	1	Breezy, cool clearing from 6/8 to 4/8 cloud
-31.5828842	147.1873620	7/07/2010	vehicle spot	2220	2240	20	European Rabbit	<i>Oryctolagus cuniculus</i>	off site Nth	N	O	2	Breezy, cool clearing from 6/8 to 4/8 cloud
-31.5828167	147.2113634	8/07/2010	Bird	0800	0820	20	Blue Bonnet	<i>Northiella haematogaster</i>	H10	N	O	3	Breezy, cool clear
-31.5828167	147.2113634	8/07/2010	Bird				Common Starling	<i>Sturnus vulgaris</i>	H10	N	O	5	Breezy, cool clear
-31.5828167	147.2113634	8/07/2010	Bird				Brown Treecreeper	<i>Climacteris picumnus</i>	H10	N	O	2	Breezy, cool clear
-31.5828167	147.2113634	8/07/2010	Bird				Magpie-lark	<i>Grallina cyanoleuca</i>	H10	N	O	2	Breezy, cool clear
-31.5828167	147.2113634	8/07/2010	Bird				Galah	<i>Cacatua roseicapilla</i>	H10	N	O	8	Breezy, cool clear
-31.5828167	147.2113634	8/07/2010	Bird				Crested Pigeon	<i>Ocyphaps lophotes</i>	H10	N	O	5	Breezy, cool clear
-31.5828167	147.2113634	8/07/2010	Bird				Noisy Miner	<i>Manorina melanocephala</i>	H10	N	O	3	Breezy, cool clear
-31.5828167	147.2113634	8/07/2010	Bird				Australian Wood Duck	<i>Chenonetta jubata</i>	H10	N	O	9	Breezy, cool clear
-31.5828167	147.2113634	8/07/2010	Bird				Apostlebird	<i>Struthidea cinerea</i>	H10	N	O	6	Breezy, cool clear
-31.5828167	147.2113634	8/07/2010	Bird				Australian White Ibis	<i>Threskiornis molucca</i>	H10	N	O	1	Breezy, cool clear
-31.5828167	147.2113634	8/07/2010	Bird				White-plumed Honeyeater	<i>Lichenostomus penicillatus</i>	H10	N	O	2	Breezy, cool clear
-31.5828167	147.2113634	8/07/2010	Bird				Chestnut-crowned Babbler	<i>Pomatostomus ruficeps</i>	H10	N	O	6	Breezy, cool clear
-31.5878000	147.2162600	8/07/2010	Bird	0840	0900	20	Australian Magpie	<i>Gymnorhina tibicen</i>	H17	N	O	4	Breezy, cool clear
-31.5878000	147.2162600	8/07/2010	Bird				Galah	<i>Cacatua roseicapilla</i>	H17	N	O	4	Breezy, cool clear
-31.5878000	147.2162600	8/07/2010	Bird				Australian Raven	<i>Corvus coronoides</i>	H17	N	O	3	Breezy, cool clear
-31.5878000	147.2162600	8/07/2010	Bird				Little Raven	<i>Corvus mellori</i>	H17	N	O	2	Breezy, cool clear
-31.5878000	147.2162600	8/07/2010	Bird				Pied Butcherbird	<i>Cracticus nigrogularis</i>	H17	N	O	2	Breezy, cool clear

-31.5878000	147.2162600	8/07/2010	Bird				Blue Bonnet	<i>Northiella haematogaster</i>	H17	N	O	6	Breezy, cool clear
-31.5878000	147.2162600	8/07/2010	Bird				Red-rumped Parrot	<i>Psephotus haematonotus</i>	H17	N	O	4	Breezy, cool clear
-31.5878000	147.2162600	8/07/2010	Bird				Common Starling	<i>Sturnus vulgaris</i>	H17	N	O	5	Breezy, cool clear
-31.5878000	147.2162600	8/07/2010	Bird				Striated Pardalote	<i>Pardalotus striatus</i>	H17	N	H	.	Breezy, cool clear
-31.5878000	147.2162600	8/07/2010	Bird				Superb Parrot	<i>Polytelis swainsonii</i>	H17	N	O	2	Breezy, cool clear
-31.5878000	147.2162600	8/07/2010	Bird				Port Lincoln Ringneck	<i>Barnardius zonarius</i>	H17	N	O	2	Breezy, cool clear
-31.5878000	147.2162600	8/07/2010	Bird				Magpie-lark	<i>Grallina cyanoleuca</i>	H17	N	O	1	Breezy, cool clear
-31.5878000	147.2162600	8/07/2010	Bird				Brown Treecreeper	<i>Climacteris picumnus</i>	H17	N	H	.	Breezy, cool clear
-31.5904761	147.2199119	8/07/2010	Bird	0930	0950	20	Blue Bonnet	<i>Northiella haematogaster</i>	H19	N	H	.	Breezy, cool clear
-31.5904761	147.2199119	8/07/2010	Bird				Striated Pardalote	<i>Pardalotus striatus</i>	H19	N	H	.	mild, clear
-31.5904761	147.2199119	8/07/2010	Bird				Australian Raven	<i>Corvus coronoides</i>	H19	N	O	2	mild, clear
-31.5904761	147.2199119	8/07/2010	Bird				Magpie-lark	<i>Grallina cyanoleuca</i>	H19	N	O	1	mild, clear
-31.5904761	147.2199119	8/07/2010	Bird				Noisy Miner	<i>Manorina melanocephala</i>	H19	N	H	.	mild, clear
-31.5904761	147.2199119	8/07/2010	Bird				Red-rumped Parrot	<i>Psephotus haematonotus</i>	H19	N	O	6	mild, clear
-31.5904761	147.2199119	8/07/2010	Bird				Common Starling	<i>Sturnus vulgaris</i>	H19	N	O	10	mild, clear
-31.5904761	147.2199119	8/07/2010	Bird				Whistling Kite	<i>Haliastur sphenurus</i>	H19	N	O	1	mild, clear
-31.5904761	147.2199119	8/07/2010	Bird				Cockatiel	<i>Nymphicus hollandicus</i>	H19	N	O	5	mild, clear
-31.5904761	147.2199119	8/07/2010	Bird				Black-faced Cuckoo-shrike	<i>Coracina novaehollandiae</i>	H19	N	H	.	mild, clear
-31.5902980	147.2220750	8/07/2010	Opportunistic				Superb Parrot	<i>Polytelis swainsonii</i>	H20	N	O	2	mild, clear
-31.5891700	147.2223880	8/07/2010	Opportunistic				Banded Lapwing	<i>Vanellus tricolor</i>	H20	N	O	2	mild, clear
-31.5891700	147.2223880	8/07/2010	Opportunistic				Richard's Pipit	<i>Anthus novaeseelandiae</i>	H20	N	O	1	mild, clear
-31.5914640	147.2194070	8/07/2010	Opportunistic				Grey-crowned Babbler	<i>Pomatostomus temporalis</i>	H23	N	O	9	mild, clear
-31.5936800	147.2179550	8/07/2010	Opportunistic				Grey-crowned Babbler	<i>Pomatostomus temporalis</i>	H23	N	O	7	mild, clear
-31.5826883	147.1864967	8/07/2010	Bird	1220	1250		Restless Flycatcher	<i>Myiagra inquieta</i>	H3	N	O	1	mild, clear
-31.5826883	147.1864967	8/07/2010	Bird				Spiny-cheeked Honeyeater	<i>Acanthagenys rufogularis</i>	H3	N	H	.	mild, clear
-31.5826883	147.1864967	8/07/2010	Bird				Singing Honeyeater	<i>Lichenostomus virescens</i>	H3	N	O	2	mild, clear
-31.5826883	147.1864967	8/07/2010	Bird				Australian Magpie	<i>Gymnorhina tibicen</i>	H3	N	H	.	mild, clear
-31.5826883	147.1864967	8/07/2010	Bird				Willie Wagtail	<i>Rhipidura leucophrys</i>	H3	N	O	1	mild, clear

-31.5826883	147.1864967	8/07/2010	Bird				Variegated Fairy-wren	<i>Malurus lamberti</i>	H3	N	O	5	mild, clear
-31.5826883	147.1864967	8/07/2010	Bird				Little Raven	<i>Corvus mellori</i>	H3	N	O	1	mild, clear
-31.5826883	147.1864967	8/07/2010	Bird				Red-capped Robin	<i>Petroica goodenovii</i>	H3	N	O	1	mild, clear
-31.5826883	147.1864967	8/07/2010	Bird				Yellow-rumped Thornbill	<i>Acanthiza chrysorrhoa</i>	H3	N	O	6	mild, clear
-31.5826883	147.1864967	8/07/2010	Bird				Yellow Thornbill	<i>Acanthiza nana</i>	H3	N	O	4	mild, clear
-31.5826883	147.1864967	8/07/2010	Bird				Welcome Swallow	<i>Hirundo neoxena</i>	H3	N	O	4	mild, clear
-31.5826883	147.1864967	8/07/2010	Bird				Buff-rumped Thornbill	<i>Acanthiza reguloides</i>	H3	N	O	3	mild, clear
-31.5826883	147.1864967	8/07/2010	Bird				Australian Raven	<i>Corvus coronoides</i>	H3	N	O	1	mild, clear
-31.5826883	147.1864967	8/07/2010	Bird				Common Bronzewing	<i>Phaps chalcoptera</i>	H3	N	O	1	mild, clear
-31.5826883	147.1864967	8/07/2010	Bird				Grey Fantail	<i>Rhipidura fuliginosa</i>	H3	N	O	1	mild, clear
-31.5826883	147.1864967	8/07/2010	Bird				Black-faced Cuckoo-shrike	<i>Coracina novaehollandiae</i>	H3	N	O	2	mild, clear
-31.5826883	147.1864967	8/07/2010	Bird				Ground Cuckoo-shrike	<i>Coracina maxima</i>	H3	N	O	8	mild, clear
-31.5826883	147.1864967	8/07/2010	Bird				Jacky Winter	<i>Microeca fascinans</i>	H3	N	O	2	mild, clear
-31.5826883	147.1864967	8/07/2010	Bird				Grey Shrike-thrush	<i>Colluricincla harmonica</i>	H3	N	H	.	mild, clear
-31.5840552	147.1868763	8/07/2010	reptile	1320	1350	30	House Mouse	<i>Mus musculus</i>	H3	N	O	5	mild, clear
-31.5840552	147.1868763	8/07/2010	reptile				Green Tree Frog	<i>Litoria caerulea</i>	H3	N	O	25	mild, clear
-31.5840552	147.1868763	8/07/2010	reptile				Tree Skink	<i>Egernia striolata</i>	H3	N	O	1	mild, clear
-31.5840552	147.1868763	8/07/2010	reptile				Boulenger's Skink	<i>Morethia boulengeri</i>	H3	N	O	1	mild, clear
-31.5830300	147.1881300		scat analysis				House Mouse	<i>Mus musculus</i>	H1	Y	S	.	
-31.5830300	147.1881300		scat analysis				Deer	<i>Cervus sp.</i>	H1	Y	S	.	
-31.5834000	147.2209470	6/07/2010	Camera trap				Magpie-lark	<i>Grallina cyanoleuca</i>	fence hole offsite Nth	N		1	Breezy, cool clear
-31.5832170	147.2195370	6/07/2010	Camera trap				nil		offsite north	N		.	Breezy, cool clear
-31.5864790	147.1877410	7/07/2010	Camera trap				Brown Hare	<i>Lepus capensis</i>	H1	Y		1	Breezy, cool clear
-31.5998970	147.2264280	7/07/2010	Camera trap				Little Raven	<i>Corvus mellori</i>	H14	Y		1	Breezy, cool clear
-31.5998970	147.2264280	7/07/2010	Camera trap				Australian Raven	<i>Corvus coronoides</i>	H14	Y		6	Breezy, cool clear