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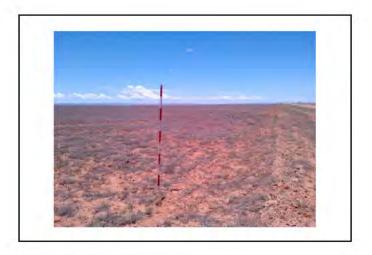
Native Vegetation Clearance Data Report RN 12000 Strzelecki Track Upgrade MM 369 – MM 396

Clearance under the Native Vegetation Regulations 2017

Prepared for: Department for Infrastructure and Transport

Date: 17 February 2025

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DOCUMENT CONTROL

PROJECT / DETAILS REPORT

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TABLE OF CONTENTS

1	Appl	icant Information	1
2	Purp	ose of Clearance	4
	2.1	Description	⊿
	2.2	Background	⊿
	2.2.1	Interim Biogeographical Regionalisation of Australia (IBRA)	⊿
	2.2.2	Climate	⊿
	2.3	General Location Map	⊿
	2.4	Details of the Proposal	5
	2.5	Approvals Required or Obtained	5
	2.6	Native Vegetation Regulation	6
	2.7	Development Application Information (if applicable)	6
3	Meth	nod	7
	3.1	Flora Assessment	7
	3.2	Fauna Assessment	7
4	Asses	ssment Outcomes	8
	4.1	Vegetation Assessment	8
	4.2	Threatened Species Assessment	. 19
	4.2.1	Threatened Flora	. 20
	4.2.2	Threatened Fauna	. 21
	4.3	Cumulative Impact	. 22
	4.4	Address the Mitigation Hierarchy	. 22
	4.5	Principles of Clearance (Schedule 1, Native Vegetation Act 1991)	. 23
	4.6	Risk Assessment	
5		rance Summary	26
5		·	27



TABLES

Table 1 – Vegetation Association 1	9
Table 2 – Vegetation Association 2	10
Table 3 – Vegetation Association 3	
Table 4 – Vegetation Association 4	12
Table 5 – Vegetation Association 5	
Table 6 – Vegetation Association 6	15
Table 7 – Vegetation Association 7	16
Table 8 – Vegetation Association 8	
Table 9 – Vegetation Association 9	18
Table 10 - Vegetation Association 10	19
Table 11 – Principles of Clearance Assessment	23
Table 12 – Risk Assessment	25
Table 13 – Clearance Area Summary Table	26
Table 14 – Totals Summary Table	

DRAWINGS

Project Location Map MM 369-396	(Drawing No. 2547.DRG.172)
NVC Proposal – MM 369 - 396 - Section 1	(Drawing No. 2547.DRG.140)
NVC Proposal – MM 369 - 396 - Section 2	(Drawing No. 2547.DRG.141)
NVC Proposal – MM 369 - 396 - Section 3	(Drawing No. 2547.DRG.142)
NVC Proposal – MM 369 - 396 - Section 4	(Drawing No. 2547.DRG.143)
NVC Proposal – MM 369 - 396 - Section 5	(Drawing No. 2547.DRG.144)
NVC Proposal – MM 369 - 396 - Section 6	(Drawing No. 2547.DRG.145)
NVC Proposal – MM 369 - 396 - Section 7	(Drawing No. 2547.DRG.146R1)
Threatened Flora Observations (MM 369 - MM 396)	(Drawing No. 2547.DRG.133)
Threatened Fauna Observations (MM 369 - MM 396)	(Drawing No. 2547.DRG.134)

ATTACHMENTS

Attachment 1	Rangeland Assessment Scoresheets
Attachment 2	Plant Species Recorded (Native and Introduced)
Attachment 3	Environment Protection Biodiversity Conservation Act 1999 Protected Matters Report
Attachment 4	Threatened Species Summary



1 Applicant Information

Application Details

Applicant:	Department for Infrastructure and Transport (DIT)			
Key contact:	Name:			
	Contact details:			
Landowner:	Name:	Road Reserve and Crown Lease		
	Contact details:	As above		
Site address:	RN120000 Strzelecki Track, MM369 – MM396			
Local Government Area:	Pastoral Unincorporated Area		Hundred:	OH (Copley) OH (Marree) OH(Kopperamanna)
Title ID:	CL/6179/606		Parcel ID:	F251575 Q301

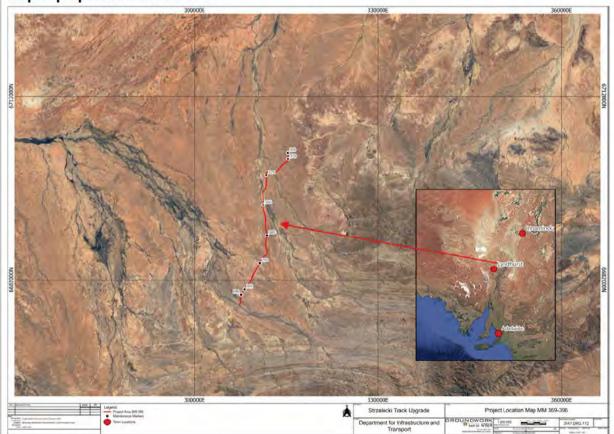
Summary of Proposed Clearance

Purpose of clearance	The proposed upgrade of the Strzelecki Track between Maintenance Marker (MM) 369 and MM 396 (the Project Area) forms part of the overall Strzelecki Track upgrade and sealing project and aims to improve transport reliability, travel times, lower transport operating costs and improve road safety. Clearance of vegetation is required where proposed construction activities exceed the current road formation and maintenance activity zone.
Native Vegetation Regulation	Part 6, Regulation 12 (32) – Works on behalf of the Commissioner of Highways.
Description of the vegetation under application	A total of 8.54 hectares (ha) of <i>Sclerolaena spp.</i> +/- <i>Dissocarpus paradoxa</i> very open low shrubland A total of 0.04 ha of <i>Eremophila longifolia</i> +/- <i>Acacia spp.</i> tall open shrubland A total of 0.09 ha of <i>Acacia victoriae</i> +/- <i>Eremophila duttonii</i> open shrubland A total of 2.23 ha of <i>Acacia victoriae</i> open shrubland A total of 0.09 ha of <i>Eucalyptus camaldulensis</i> open forest A total of 0.56 ha of <i>Maireana astrotricha</i> open shrubland A total of 2.8 ha of <i>Maireana pyramidata</i> +/- <i>Atriplex vesicaria</i> open shrubland



	A total of 2.36 ha of Santalum lanceolata +/- Acacia victoriae tall shrubland
	A total of 1.22 ha of <i>Sclerolaena spp. +/- Maireana pyramidata</i> open low shrubland
	A total of 4.37 ha of <i>Maireana astrotricha</i> +/- <i>Maireana</i> pyramidata open shrubland
Total proposed clearance - area (ha) and number of trees	22.3 ha are proposed to be cleared.
Level of clearance	Level 4
Overlay (planning and design code)	Zone – Remote Areas – RA Overlays – Gas and Liquid Petroleum Pipelines, Gas and Liquid Petroleum Pipeline (Facilities), Hazards (Bushfire – Outback), Heritage Adjacency, Hazards (Flooding – Evidence Required), Key Outback and Rural Routes, Native Vegetation, Prescribed Wells Area, State Heritage Place – 65, State Heritage Place – 71, Water Resources, and Significant Landscape Protection.

Map of proposed clearance area



Mitigation hierarchy

Typical road drawings have been produced with the aim to avoid and reduce the native vegetation clearance impacts as well as the potential impacts to heritage sites.

The planned Strzelecki Track upgrades are located at areas that have been exposed to a moderate level of previous vegetation clearance associated with road construction and maintenance activities. Cut-off drains have been positioned predominantly within existing historical cut- off drains locations, with others located in areas with no previous vegetation clearance. However, clearance is unable to be avoided as cut-off drains are essential to clearing the road of water during rainfall events to maintain road user safety. Similarly, water crossings are required to facilitate the movement of water across the roadway, to ensure safety of road users. Clearance is unable to be avoided to ensure appropriate tying-in with surrounding landscape to ensure that water can flow freely away from the road formation.

Native vegetation clearance will only be required for minimal widths along the length of the Project Area, as outlined in **Section 4.1 Vegetation Assessment**. The design of the final road formation has been made to ensure the extent of impacts of clearance have been minimised to the lowest possible to achieve the sealing of the roadway and to be an appropriate size for the traffic volume and design speed.

Dimensions of cut-off drains and water crossings have been planned to reduce the impact of vegetation clearance whilst still allowing the necessary construction activities to be completed.

All contractors will be made aware of the environmental obligations through the implementation of a Contractors Environmental Management Plan (CEMP) during construction to ensure there is no unnecessary damage to surrounding vegetation.

It is expected that native vegetation will naturally regenerate all disturbed areas, consistent with observations of past clearance.

Significant Environmental Benefit (SEB) Offset proposal

Payment of \$95,114.78, including administration fee of \$4,958.60, to be paid into the Native Vegetation Fund (NVF).



2 Purpose of Clearance

2.1 Description

Groundwork part of SLR (Groundwork) have been engaged by DIT to undertake a native vegetation assessment for the purpose of clearance for the Project Area as part of the overall Strzelecki Track Upgrade Project. The Project Area forms part of Stage 3 of the overall upgrade and is currently within the pre-delivery phase. The Strzelecki Track Upgrade Project intends to seal the entirety of the Track over several stages and successive years. Currently, sealing works have been completed for some sections, with some currently in the construction phase. Other sections are still in either design or planning stages.

2.2 Background

The Strzelecki Track is primarily utilised as a transport route for the oil and gas facilities located within the Cooper Basin and the southern access route for the Innamincka township. The direct benefits of the Strzelecki Track upgrade project include, improved transport reliability and safety, improved travel times and lower transport and vehicle operating costs for road users. The Strzelecki Track upgrade is a priority for the Australian and South Australian Governments as it is the only viable land route between Adelaide and the Cooper Basin and is of importance to the expanding oil and gas industry, as well as the pastoral industry in the north east of South Australia.

2.2.1 Interim Biogeographical Regionalisation of Australia (IBRA)

The Project Area is located within the Stony Plains IBRA Region and the Murnpeowie IBRA Subregion. The Stony Plains Region is located across the central to north western parts of the South Australian Arid Lands Landscape Board Region. It is a region of extensive arid stony silcrete tablelands (breakaways), gibber, and gypsum plains crossed by large river floodplains with sparse low chenopod shrublands on duplex soils. Climate is characterised by hot temperatures and persistently low rainfall. Vegetation growth is limited by rainfall and consists of Saltbush, Bluebush, Samphire, Mitchell Grass, or Short-lived Bindyi communities on the Gibber plains with dune fields, swales, and sandy plains dominated by Sandhill Cane-grass. Drainage channels consist of denser vegetation and streams are fringed with Coolabah and River Red Gum (South Australian Arid Lands Biodiversity Strategy - Stony Plains Conservation Priorities, South Australian Arid Lands NRM Board, Department for Environment and Heritage, 2009).

2.2.2 Climate

The nearest weather station is located at Leigh Creek (No. 017110). The regional climate is characterised as arid to semi-arid and is persistently dry. Review of the Government of South Australia's Enviro Data application *NatureMaps* (*NatureMaps*) climate data references a mean annual rainfall of 186 millimetres (mm).

2.3 General Location Map

The Strzelecki Track is located approximately 550 kilometres (km) to the north east of Adelaide, South Australia, refer to **Drawing No. 2547.DRG.172 – Project Location Map MM 369-396** for a visual



representation of the Project Area. Vegetation survey plans for the Project Area are provided as outlined below:

- Drawing No. 2547.DRG.140 NVC Proposal MM 369 396 Section 1
- Drawing No. 2547.DRG.141 NVC Proposal MM 369 396 Section 2
- Drawing No. 2547.DRG.142 NVC Proposal MM 369 396 Section 3
- Drawing No. 2547.DRG.143 NVC Proposal MM 369 396 Section 4
- Drawing No. 2547.DRG.144 NVC Proposal MM 369 396 Section 5
- Drawing No. 2547.DRG.145 NVC Proposal MM 369 396 Section 6
- Drawing No. 2547.DRG.146R1 NVC Proposal MM 369 396 Section 7

2.4 Details of the Proposal

The proposed upgrade of the Project Area on the Strzelecki Track is between MM 369 and MM 396 and forms part of the overall Strzelecki Track upgrades and sealing project, aiming to improve transport reliability travel times, lower transport operating costs and improve road safety.

The upgraded typical road formation will be based on single lanes of 3.5 metres (m) width, with a sealed shoulder of one (1) m, an unsealed shoulder of one (1) m, totalling in a road formation of 11 m. Longitudinal drainage and batters will extend from the unsealed shoulder, with a 1 in 6 slope into the drain, a 1.5 m drain, and 1 in 4 slope extending out of the drain. A total Construction Activity Zone (CAZ) of 18 m either side of the existing centreline will be required. Cut-off drains will be utilised to ensure water movement away from the road formation in rain events.

Sections identified as minor water crossings and flood ways will be stabilised with a required CAZ of 18 m either side of the existing centreline. Ten major waterways along the Project Area have been identified and have had detailed designs created. A CAZ of 18 m either side of the centreline is required for these sections. Two creek lines are already sealed but may require some maintenance within the existing formation depending on condition.

Construction material will be sourced locally, utilising an existing borrow pit that will be extended. Two (2) existing disturbed areas will also be utilised as stack sites for material, and an existing camp site will be reinstate for use during construction. A series of Maintenance Turn Around Points (MTPs) will also be utilised during construction.

Most of the above construction activities will be contained within the existing road formation and maintenance activity zone (MAZ) and will not require approval for native vegetation clearance, however, there are some areas where activities extend beyond the current MAZ and approval for vegetation clearance is required. It is these areas that are included within this application. Specifically, these areas are:

- A linear strip of vegetation either side of the road formation, of approximately 3.8 m, where the CAZ will extend past the current MAZ,
- Four (4) new MTPs,
- The extension of one (1) cut-off drain, and
- The extension of one (1) borrow pit.

2.5 Approvals Required or Obtained

A review of *NatureMaps* indicated that there has been one (1) other Native Vegetation clearance application relevant along the entire corridor of the Project Area, in 2008 (2008_3120). This was likely associated with other road upgrade activities.



Other environmental legislation relevant to the project includes:

- Environment Protection and Biodiversity Conservation Act 1999 (EPBC Act). The EPBC Act
 provides protection for MNES. Any action that has, will have or is likely to have a significant
 impact on MNES requires referral under the EPBC Act. Conservation significant flora and fauna
 species, and ecological communities listed under the EPBC Act are known from and / or could
 potentially occur within the Project Area.
- National Parks and Wildlife Act 1972 (SA) (NP&W Act). Native plants and animals in South Australia are protected under the NP&W Act. It is an offence to take a native plant or protected animal without approval. Conservation significant flora and fauna species listed on Schedules 7, 8, or 9 of the NP&W Act could potentially occur within the Project Area.
- Landscape South Australia Act 2019 (Landscape Act). Under the Landscape South Australia Act
 2019, landholders have a legal responsibility to manage declared pest plants and animals and
 prevent land and water degradation. The South Australian Arid Lands Landscape Board has the
 statutory role of enforcing this within the Project Area. Approval may be required for movement
 of Declared Plant and Water Affecting Activities (WAA) as associated with the Project.
- Aboriginal Heritage Act 1988 (AH Act). Approval required if damage to Aboriginal Heritage Sites (reported / registered or undocumented) is required. Ministerial authorisation under section 23 of AH Act.

A detailed Environment and Heritage Impact Assessment according to DIT's internal guidelines has been produced for the project. Relevant environmental and heritage aspects have been assessed as part of this process with recommended mitigations and necessary approvals documented.

2.6 Native Vegetation Regulation

The proposed works are intended to be undertaken within the provisions of clearance of native vegetation provided under the *Native Vegetation Regulations 2017*, Part 6, Regulations 12 (32) – Works on behalf of Commissioner of Highways.

2.7 Development Application Information (if applicable)

Approval under the Planning, Development and Infrastructure Act 2016 is not required.



3 Method

3.1 Flora Assessment

An online search was undertaken for EPBC Act Matters of National Environmental Significance (MNES) relevant to flora along with a review of *NatureMaps* for historical records of any rare or endangered flora species within 50 km of the Project Area.

Following a review of the background information and literature, an assessment of the Project Area was undertaken in December 2024 by Groundwork Accredited Consultants involving a general vegetation assessment utilising the Native Vegetation Council's (NVC) Rangeland Assessment methodology of the Project Area and identification of suitable growing conditions for species of conservation significance.

The Project Area was surveyed for:

- Remnant and regrowth native vegetation,
- Condition of vegetation,
- Introduced plant species, and
- Suitable growing conditions for identified threatened species.

Representative photographs of the vegetation within the Project Area as well as descriptions of the vegetation are provided within **Section 4.1. Vegetation Assessment**.

3.2 Fauna Assessment

An online search was undertaken for EPBC Act MNES relevant to fauna, as well as a review of *NatureMaps* to determine the potential presence of any rare or endangered fauna species recorded within 50 km of the Project Area.

During the field assessment, vegetation was surveyed to determine habitat potential for all fauna species, in particular threatened species identified through the desktop assessment. Opportunistic records of fauna species were also captured. The likelihood of fauna species identified within the desktop searches as being present within the Project Area was assessed based on the species known habitat preferences and the vegetation associations identified onsite and are detailed within **Section 4.2 Threatened Species Assessment**.



4 Assessment Outcomes

4.1 Vegetation Assessment

The vegetation survey was undertaken in February 2024 by Matthew Jones (Technical Director – Environmental Management, Permitting and Compliance, Native Vegetation Accredited Consultant), and Louise Jaunay (Associate Consultant – Ecology and biodiversity, Native Vegetation Accredited Consultant) from Groundwork. The vegetation assessment identified the majority of perennial species to be in moderate to good condition with some species flowering and setting seed. Due to rainfall over the early Summer 2024 period, there was evidence of short-lived ephemeral species, some identifiable, some not. During drier periods, cover is usually less dense with annual species.

The topography and vegetation associations changed moving through the Project Area. Generally, the Project Area is located within expansive Gibber Plains, dissected by a number of water ways of varying size. This created alternations between dry, expansive plains, flood plains, and creek lines. There are no Heritage Agreements within a 50 km radius of the project area. Vulkathunha-Gammon Ranges National Park is the closest protected area to the Project Area, located approximately 30 km south.

Full assessment of the vegetation attributes and condition scores are provided within **Attachment 1 – Rangeland Assessment Scoresheets**. A list of flora species recorded onsite are provided within **Attachment 2 – Plant Species Recorded (Native and Introduced)**.

Inspection of the Project Area confirmed the presence of native vegetation with the following 10 vegetation associations identified:

- Sclerolaena spp. +/- Dissocarpus paradoxa very open low shrubland
- Eremophila longifolia +/- Acacia spp. tall open shrubland
- Acacia victoriae +/- Eremophila duttonii open shrubland
- Acacia victoriae open shrubland
- Eucalyptus camaldulensis open forest
- Maireana astrotricha open shrubland
- Maireana pyramidata +/- Atriplex vesicaria open shrubland
- Santalum lanceolata +/- Acacia victoriae tall shrubland
- Sclerolaena spp. +/- Maireana pyramidata open low shrubland
- Maireana astrotricha +/- Maireana pyramidata open shrubland

Vegetation associations were classified at a broad level, and based upon landform as well as dominant species, as was appropriate for the context of the landscape and the assessment methodology. Refer to **Table 1 – Vegetation Association 1** to **Table 10 – Vegetation Association 10** for details of the vegetation associations.

The vegetation associations are connected to surrounding native vegetation and are consistent with regional associations which are well represented. Land use is predominately grazing, with the vegetation showing some evidence of current grazing, particularly within water ways.

Most vegetation within the construction footprint is of lower understorey species and younger overstorey species, with minimal mature overstorey species to be impacted. However, a few mature taller shrubs, particularly in water ways have been identified as falling within the impact area.



Table 1 - Vegetation Association 1

Vegetation Association 1

Sclerolaena spp. +/- Dissocarpus paradoxa very open low shrubland



Representative Photo 1 – Gibber Plain with sparse chenopod shrubs Latitude 29° 47'46.45"S, Longitude 139°5'19.61"E

General description

Vegetation located on Gibber Plains. Dominated by very low chenopod shrubs, particularly species of *Sclerolaena*. Occasional *Maireana astrotricha*, either as an individual or small clump. Notable presence of dried annual species, as prior conditions had allowed for vegetation germination.

Very low evidence of current grazing pressure on perennial species, this may have been due to general lack of palatable species across the higher plains.

Very low weed species noted within the areas under application. Vegetation is of a density and condition expected of the region.

Dominant native species include:

- o Sclerolaena cuneata
- Sclerolaena brachytpera
- o Atriplex holocarpa
- Dissocarpus paradoxa
- o Sida sp.
- o Astrebla pectinata

Refer to Attachment 1 – Rangeland Assessment Scoresheets and Attachment 2 – Plant Species Recorded (Native and Introduced) for a detailed overview of the assessment outcomes and full species list.

Threatened species or community

No threatened flora species or ecological communities as listed under the EPBC Act or the NP&W Act were recorded within Vegetation Association 1 during the field assessment.

Landscape context score	1.16	Vegetation condition score	41.40	Conservation significance score	1.10
Unit biodiversity score	52.83	Area (ha)	8.54	Total biodiversity score	451.17

Table 2 - Vegetation Association 2

Vegetation	Eremophila longifolia +/- Acacia spp. tall open shrubland	
Association 2		



Representative Photo 2 – Narrow drainage line fringed with vegetation association.

Latitude 29° 48'33.41"S, Longitude 139°4'50.62"E

Vegetation located in small drainage lines. Very narrow association, restricted to lower lying wetter areas. Dominated by *Eremophila longifolia*, with lots of regeneration noted. Other taller shrub species consisting of *Pittosporum angustifolium* and *Santalum lanceolatum*. Notable presence of dried annual species, as prior conditions had allowed for vegetation germination.

High evidence of current grazing pressure on perennial species, with stock likely attracted to the higher, denser vegetation through the drainage lines.

Weed species noted within the areas under application. Vegetation is of a density and condition expected of the region.

- o Eremophila longifolia
- o Pittosporum angustifolium
- o Santalum lancelatum
- o Acacia victoriae
- Acacia salicina
- o Sclerolaena longicuspis



	Refer to A	hagodia spinescens attachment 1 – Rangela Species Recorded (Na ament outcomes and ful	tive and In	troduced) for a deta		
Threatened species or community	No threatened flora species or ecological communities as listed under the Act or the NP&W Act were recorded within Vegetation Association 2 during field assessment.					
Landscape context score	1.16	1.16 Vegetation condition score 39.63 Conservation significance score				
Unit biodiversity score	50.57	Area (ha)	0.04	Total biodiversity score	2.02	

Table 3 - Vegetation Association 3



Representative Photo 3 – Shallow drainage depression through hillside with higher shrubs as compared to surrounding vegetation.

Latitude 29° 48'44.16"S, Longitude 139°4'38.69"E

General description

Vegetation located within drainage lines down hillsides. Dominated by *Acacia victoriae* and *Eremophila duttonii* with low chenopods. Rocky ground with minor evidence of erosion from water movement. Some presence of dried annual species, as prior conditions had allowed for vegetation germination.

Some evidence of current grazing pressure on perennial species, with stock likely attracted to the higher, denser vegetation through the drainage lines.

Some weed species noted within the areas under application. Vegetation is of a density and condition expected of the region.

	 Acacia victoriae Acacia tetragonophylla Eremophila duttonii Sida intricata Sclerolaena longicuspis Astrebla pectinata Refer to Attachment 1 – Rangeland Assessment Scoresheets and Attachment 2 – Plant Species Recorded (Native and Introduced) for a detailed overview of the assessment outcomes and full species list. 					
Threatened species or community	Act or the	No threatened flora species or ecological communities as listed under the EPE Act or the NP&W Act were recorded within Vegetation Association 3 during the field assessment.				
Landscape context score	1.16	Vegetation condition score	34.72	Conservation significance score	1.10	
Unit biodiversity score	44.30	Area (ha)	0.09	Total biodiversity score	3.99	

Table 4 - Vegetation Association 4

Vegetation Association 4	Acacia victoriae open shrubland	



Representative Photo 4 – Acacia victoriae shrubland on wide floodplain Latitude 29° 49'12.41"S, Longitude 139°3'50.65"E

General	Vegetation located lower lying floodplains adjacent larger water courses.
description	Dominated by Acacia victoriae over Rhagodia spinescens Notable presence of
	dried annual species, as prior conditions had allowed for vegetation germination.

Many, very small, recently germinated plants, too small for identification, but likely a combination of introduced weed species and native annuals. Some low evidence of current grazing pressure on perennial species. Some weed species noted within the areas under application. Vegetation is of a density and condition expected of the region. Dominant native species include: Acacia victoriae o Maireana astrotricha o Atriplext holocarpa o Sclerolaena cuneata o Rhagodia spinescens o Santalum lanceolatum Refer to Attachment 1 - Rangeland Assessment Scoresheets and Attachment 2 - Plant Species Recorded (Native and Introduced) for a detailed overview of the assessment outcomes and full species list. **Threatened** No threatened flora species or ecological communities as listed under the EPBC species Act or the NP&W Act were recorded within Vegetation Association 4 during the community field assessment. Landscape 1.16 Vegetation 43.00 Conservation 1.10 condition score context score significance score Unit 54.87 Area (ha) 2.23 Total 122.36 biodiversity biodiversity score score

Table 5 - Vegetation Association 5

Vegetation Association 5	Eucalyptus camaldulensis open forest
	W. S.



Representative Photo 5 - Mature River Red Gum trees in creek bed

	Latitu	de 29° 49'9.73"S, L	ongitude 139	9°3'44.08"E			
General description	particularly with large Low evider been due t Low weed density and O Dominant O Eu O Ac O Me O Ac O Cy Refer to At 2 - Plant S	restricted to major creek lines. Generally low density of vegetation, of understorey species as creek beds are very stony and wash through rain events. Occasional dense stand of <i>Melaleuca glomerata</i> . Ince of current grazing pressure on perennial species, this may have or general lack of palatable species within the creek beds. It is species noted within the areas under application. Vegetation is of a discondition expected of the region. In active species include: In active species and Attachment species Recorded (Native and Introduced) for a detailed overview of ment outcomes and full species list.					
Threatened species or community	No threatened flora species or ecological communities as listed under the EPBC Act or the NP&W Act were recorded within Vegetation Association 5 during the field assessment.						
Landscape context score	1.16	1.16 Vegetation 37.58 Conservation 1.10 Condition Score score					
Unit biodiversity Score	47.95	Area (ha)	0.09	Total biodiversity Score	4.32		



Table 6 - Vegetation Association 6

Vegetation Association 6

Maireana pyramidata +/- Maireana astrotricha open shrubland



Representative Photo 6 – Lower lying flood plain, dominated by *Maireana spp.*Latitude 29° 50'43.95"S, Longitude 139°2'57.92"E

General description

Lower lying flood plain adjacent minor water ways. Vegetation dominated by *Maireana spp.* shrubs with scattered *Acacia victoriae*. Notable presence of dried annual species, as prior conditions had allowed for vegetation germination. Many, very small, recently germinated plants, too small for identification, but likely a combination of introduced weed species and native annuals.

Limited evidence of current grazing pressure on perennial species.

Weed species likely to be present but not identified at time of assessment. Vegetation is of a density and condition expected of the region.

Dominant native species include:

- o Maireana pyramidata
- o Maireana astrotricha
- Sclerolaena holtiana
- Sclerolaena brachytpera
- Atriplex holocarpa

Refer to Attachment 1 – Rangeland Assessment Scoresheets and Attachment 2 – Plant Species Recorded (Native and Introduced) for a detailed overview of the assessment outcomes and full species list.

Threatened species or community

No threatened flora species or ecological communities as listed under the EPBC Act or the NP&W Act were recorded within Vegetation Association 6 during the field assessment.

Landscape context score	1.16	Vegetation condition score	46.13	Conservation significance score	1.10	
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Unit	58.86	Area (ha)	0.56	Total	32.96	
biodiversity				biodiversity		
score				score		

Table 7 - Vegetation Association 7

Vegetation Association 7	Maireana pyramidata +/- Atriplex vesicaria open shrubland	



Representative Photo 7 – Gibber Plain with sparse chenopod shrubs Latitude 29° 57'0.53"S, Longitude 139°2'27.17"E

Vegetation located on slopes near drainage lines. Dominated by low chenopod General shrubs, particularly species of Atriplex, Maireana and Sclerolaena. Occasional description Acacia victoriae, either as an individual or small clump. Notable presence of dried annual species, as prior conditions had allowed for vegetation germination. Limited evidence of current grazing pressure on perennial species. Very low weed species noted within the areas under application. Vegetation is of a density and condition expected of the region. Dominant native species include: Maireana pyramidata o Atriplex vesicaria Sclerolaena longicuspis o Maireana astrotricha Sclerolaena brachytpera Refer to Attachment 1 – Rangeland Assessment Scoresheets and Attachment 2 - Plant Species Recorded (Native and Introduced) for a detailed overview of the assessment outcomes and full species list. **Threatened** No threatened flora species or ecological communities as listed under the EPBC species or Act or the NP&W Act were recorded within Vegetation Association 7 during the community field assessment.

Landscape context score	1.16	Vegetation condition score	47.58	Conservation significance score	1.10
Unit biodiversity score	60.71	Area (ha)	2.8	Total biodiversity score	169.99

Table 8 - Vegetation Association 8

Vegetation Association 8	Santalum lanceolata +/- Acacia victoriae tall shrubland	
Association 6		



Representative Photo 8 – Gibber Plain with sparse chenopod shrubs Latitude 29° 57'24.88"S, Longitude 139°2'8.63"E

Convergent smaller drainage lines dissecting through hillsides. Taller vegetation following drainage lines with scattered individuals and clumps between the lines. Notable presence of dried annual species, as prior conditions had allowed for vegetation germination.

Very low evidence of current grazing pressure on perennial species, this may have been due to general lack of palatable species across the higher plains.

Very low weed species noted within the areas under application. Vegetation is of a density and condition expected of the region.

- o Sclerolaena cuneata
- o Sclerolaena brachytpera
- o Atriplex holocarpa
- o Dissocarpus paradoxa
- o Sida sp.
- o Aristida sp.



	2 - Plant	ttachment 1 – Rangel Species Recorded (Na ment outcomes and fu	tive and In	troduced) for a deta				
Threatened species or community	Act or the	No threatened flora species or ecological communities as listed under the EPBC Act or the NP&W Act were recorded within Vegetation Association 8 during the field assessment.						
Landscape context score	AT A COLUMN TO THE REAL PROPERTY OF THE PARTY OF THE PART	Vegetation condition score	54.42	Conservation significance score	1.10			
Unit biodiversity score	69.44	Area (ha)	2.36	Total biodiversity score	163.88			

Table 9 - Vegetation Association 9

Vegetation Association 9	Sclerolaena spp. +/- Maireana spp. open low shrubland
**	
	The second secon

Representative Photo 9 – Gibber Plain with sparse chenopod shrubs Latitude 29° 47'46.45"S, Longitude 139°5'19.61"E

Vegetation located on stony hillsides between Gibber Plains and drainage lines. Dominated by very low chenopod shrubs, particularly species of *Sclerolaena* and *Maireana*. Notable presence of dried annual species, as prior conditions had allowed for vegetation germination.

Low evidence of current grazing pressure on perennial species.

Very low weed species noted within the areas under application. Vegetation is of a density and condition expected of the region.

- o Sclerolaena cuneata
- Sclerolaena decurrens
- Sclerolaena brachytpera

	 Atriplex lindleyi Atriplex vesicaria Maireana pyramidata Maireana astrotricha Refer to Attachment 1 – Rangeland Assessment Scoresheets and Attachment 2 – Plant Species Recorded (Native and Introduced) for a detailed overview of the assessment outcomes and full species list. 										
Threatened species or community	Act or the	No threatened flora species or ecological communities as listed under the EPBC Act or the NP&W Act were recorded within Vegetation Association 9 during the field assessment.									
Landscape context score	1.16	Vegetation condition score		Conservation significance score	1.10						
Jnit 59.46 biodiversity core		Area (ha)	1.22	Total biodiversity score	72.54						

Table 10 - Vegetation Association 10

Vegetation Association 10	Maireana astrotricha +/- Maireana pyramidata open shrubland

Representative Photo 10 – Gibber Plain with patchy chenopod shrubs Latitude 29° 29'55.37"S, Longitude 139°5'26.65"E

Vegetation located on Gibber Plains. Dominated by low chenopod shrubs, particularly species of *Maireana*. Notable presence of dried annual species, as prior conditions had allowed for vegetation germination.

Some evidence of current grazing pressure on perennial species.

Some weed species noted within the areas under application. Vegetation is of a density and condition expected of the region.

Threatened species or community	o Maire o Sclero o Rhago o Sclero Refer to Attac 2 – Plant Spec the assessmen	ana pyramidata ana astrotricha laena longicuspis odia spinescens laena brachytpera chment 1 – Rangela cies Recorded (Nata at outcomes and ful d flora species or ec	tive and Intro I species list. cological comm	duced) for a detail nunities as listed u	ed overview of
Landscape context score	1.16	Vegetation condition score	43.05	Conservation significance score	1.10
Unit biodiversity score	54.93	Area (ha)	4.37	Total biodiversity score	240.04

4.2 Threatened Species Assessment

4.2.1 Threatened Flora

A search of *Naturemaps* (2024) found 12 threatened flora species that have previously been recorded within 50 km of the Project Area and within the preceding 20 years:

- Maireana melanocarpa (Rare) One (1) observation 50 km from the Project Area. Last observed in 2023.
- *Eriocaulon carsonii ssp. carson*ii (Endangered) 69 observations between 40 50 km from the Project Area. Last observed in 2015.
- Acacia araneosa (Endangered) –Two (2) observations 50 km from the Project Area. Last observed in 2009.
- Acacia confluens (Vulnerable) 14 observations 50 km from the Project Area. Last observed in September 2024.
- Daviesia stricta (Rare) One (1) observation 40 km from the Project Area. Last observed in 2012.
- Swainsona leeana (Rare) One (1) observation 35 km from the Project Area. Last observed in 2010
- Goodenia saccate (Rare) Three (3) observations 45 km from the Project Area. Last observed in 2015.
- Codonocarpus pyramidalis (Endangered) 91 observations 50 km from the Project Area.
 Last observed in 2019.
- Abutilon oxycarpum ssp. prostrate (Rare [EPBC Act]) One (1) observation 50 km from the Project Area. Last observed in September 2024.
- Potamogeton ochreatus (Rare) One (1) observation 40 km from the Project Area. Last observed in 2012. Requires water, therefore excluded from assessment.
- Philotheca angustifolia ssp. angustifolia (Rare) One (1) observation 40 km from the Project Area. Last observed in 2012.



 Santalum spicatum (Vulnerable) – One (1) observation 50 km from the Project Area. Last observed in 2016.

An EPBC Protected Matters Search report (2024) lists the Matters of National Environmental Significance (MNES) in relation to flora that may occur within 50 km of the project footprint, refer to **Attachment 3** – *Environment Protection Biodiversity Conservation Act 1999* Protected Matters Report.

In summary, the EPBC Protected Matters Search Identified four (4) Listed Threatened Species of flora that may occur: *Eriocaulon carsonii* ssp. *carsonii* (Salt Pipewort), *Acacia araneosa* (Spidery Wattle), *Frankenia plicata* (Sea Heath), and *Codonocarpus pyramidalis* (Slender Bell-fruit).

An assessment of the likelihood of occurrence of listed species has been completed based upon proximity of recent records to the Project Area, species known habitat requirements, and available habitat recorded onsite through field inspections. Refer to **Attachment 4 – Threatened Species Summary** and **Drawing No. 2547.DRG.133 – Threatened Flora Observations**. In summary, all threatened species are considered 'unlikely' to occur or were excluded due to inconsistent habitat requirements.

4.2.2 Threatened Fauna

A search of *NatureMaps* (2024) sought to identify species of State or National Rated Significance previously recorded within 50 km of the Project Area and within the preceding 20 years. A total of 13 State or Nationally listed species were identified in the *NatureMaps* search. An EPBC Protected Matters Search report listed 13 Nationally threatened fauna species additional to those identified through *NatureMaps* that may occur within proximity (50 km buffer applied) to the Project Area. Refer to **Attachment 4 – Threatened Species Summary** and **Attachment 3 – Environment Protection Biodiversity Conservation Act 1999 Protected Matters Report** for a full report of the species results. Aquatic fauna and sub-species with known distribution outside of the Site were excluded from the results.

An assessment of the likelihood of occurrence of listed species within the Project Area has been completed based upon proximity of recent records, species known habitat requirements, and available habitat recorded onsite through field inspections. Refer to **Attachment 4 – Threatened Species Summary** and **Drawing No. 2547.DRG.134 – Threatened Fauna Observations (MM 369 – MM 396)**. In summary, one (1) species, *Neophema elegans elegans* (Elegant Parrot), was considered 'likely' to occur, and three (3) species, *Amytornis modestus* (Thick-billed Grasswren), *Aphelocephala leucopsis* (Southern Whiteface), and *Falco subniger* (Black Falcon), were considered 'possible' to occur. All other species were either excluded or considered 'unlikely' to occur.

The vegetation within the Project Area may provide suitable habitat for multiple fauna species, most notably for bird species. Despite the potential presence of threatened and common fauna species, the proposed works are unlikely to have a significant impact on any fauna populations, based on the narrow linear nature of the works and the location (proximity to the road resulting in increased disturbance and therefore low-quality habitat) and the availability of better-quality vegetation adjacent to the Site.

A project area inspection was undertaken between 03 December and 04 December by Groundwork to assess the on-site habitat and opportunistic fauna observations. The inspection did not find any listed fauna species within the Project Area.

Given the results of the desktop assessment, species found onsite, and scale of proposed impacts, an EPBC Act referral will not be required.



4.3 Cumulative Impact

The planned works are part of a larger project with the entirety of the Strzelecki Track to be upgraded to a seal road. This has involved vegetation clearance at multiple locations and further clearance associated with other stages will also be required. The works are located within close proximity to the existing road boundary, where there is a history of maintenance and construction activities. Sites previously disturbed through construction have regenerated native vegetation well, as evident in the current inspection. It is likely that disturbed areas within the current project, such as batters, will regenerate in a similar fashion. The Project will utilise historical borrow pits that have been established and used for ongoing maintenance activities along the road, therefore reducing the cumulative clearance effect.

Given the nature of the proposed work, there may be minor further effects on surrounding native vegetation from aspects such as dust and sediment deposition, weed invasion, rubbish, and alterations to surface water through the installation of water crossings. An Environment and Heritage Impact Assessment has been conducted, as per DIT protocol, with mitigation measures for each of these aspects outlined within the assessment. A WAA Assessment has also been conducted to outline any potential impacts to mapped watercourses.

The preparation of a CEMP and a Soil, Erosion, and Drainage Management Plan will manage potential damaging impacts from aspects such as dust and sediment deposition. Appropriate waste management strategies are required to be implemented to ensure no adverse impacts from waste materials left onsite and the design of any floodway infrastructure will ensure the existing surface water flow paths are not altered.

Weed invasion is possible due to the movement of vehicles and machinery within the application areas, with several declared weed species being previously recorded within the region. Introduction of weed species may result in a degradation of remnant surrounding vegetation, however, during construction, strict hygiene practices must be adhered to ensure weed species are not spread or introduced as per the DIT's procedures.

Future clearance of vegetation surrounding the Project Area is unlikely, given the extent of the proposed upgrade works. If future maintenance activities do result in impacts to vegetation, this is likely to be regrowth vegetation within the approved MAZ and is likely to contribute only to a minor accumulation of clearance effect.

4.4 Address the Mitigation Hierarchy

a) Avoidance – outline measures taken to avoid clearance of native vegetation

Typical road drawings have been produced with the aim to avoid and reduce the native vegetation clearance impacts as well as the potential impacts to heritage sites.

The planned Strzelecki Track upgrades are located at areas that have been exposed to a moderate level of previous vegetation clearance associated with road construction and maintenance activities.

Cut-off drains have been positioned predominantly within existing historical cut- off drains locations, with others located in areas with no previous vegetation clearance. However, clearance is unable to be avoided as cut-off drains are essential to clearing the road of water during rainfall events to maintain road user safety. Similarly, water crossings are required to facilitate the movement of water across the



roadway, to ensure safety of road users. Clearance is unable to be avoided to ensure appropriate tyingin with surrounding landscape to ensure that water can flow freely away from the road formation.

b) Minimisation – if clearance cannot be avoided, outline measures taken to minimise the extent, duration and intensity of impacts of the clearance on biodiversity to the fullest possible extent (whether the impact is direct, indirect or cumulative).

Native vegetation clearance will only be required for minimal widths along the length of the Project Area, as outlined in **Section 4.1 Vegetation Assessment**. The design of the final road formation has been made to ensure the extent of impacts of clearance have been minimised to the lowest possible to achieve the sealing of the roadway and to be an appropriate size for the traffic volume and design speed.

Dimensions of cut-off drains and water crossings have been planned to reduce the impact of vegetation clearance whilst still allowing the necessary construction activities to be completed.

All contractors will be made aware of the environmental obligations through the implementation of a Contractors Environmental Management Plan (CEMP) during construction to ensure there is no unnecessary damage to surrounding vegetation.

c) Rehabilitation or restoration – outline measures taken to rehabilitate ecosystems that have been degraded, and to restore ecosystems that have been degraded, or destroyed by the impact of clearance that cannot be avoided or further minimised, such as allowing for the re-establishment of the vegetation.

It is expected that native vegetation will naturally regenerate all disturbed areas, consistent with observations of past clearance.

d) Offset – any adverse impact on native vegetation that cannot be avoided or further minimised should be offset by the achievement of a significant environmental benefit that outweighs that impact.

DIT intend to pay into the NVF, the amount required for the SEB, as calculated in **Table 13 – Totals Summary Table**.

4.5 Principles of Clearance (Schedule 1, *Native Vegetation Act* 1991)

The NVC will consider Principles 1(b), 1(c) and 1(d) when assigning a level of Risk under Regulation 16 of the Native Vegetation Regulations. The NVC will consider all the Principles of clearance of the Act as relevant, when considering an application referred under the *Planning, Development and Infrastructure Act 2016*.

Table 11 – Principles of Clearance Assessment

Principle of clearance	Relevant information	Assessment against the principles	Moderating factors that may be considered by the NVC						
Principle	The vegetation under application	Seriously at	Given the shape, size, and						
1(b) -	contains habitat components, such	Variance:	landscape context of the						
significance	as ground-level complexities that	Yes	vegetation under application, it						
	provide habitat for fauna species,		is unlikely clearance will lead to						



Principle of clearance	Relevant information	Assessment against the principles	Moderating factors that may be considered by the NVC
as a habitat for wildlife	particularly small birds and reptiles. The vegetation is connected with surrounding vegetation that provides similar structure and is not in isolation. Threatened Fauna Scores – All Vegetation Associations: 0.1 Unit Biodiversity Scores – VA1 – 52.83 VA2 – 50.57 VA3 – 44.30 VA4 – 54.87 VA5 – 47.95 VA6 – 58.86 VA7 – 60.71 VA8 – 69.44 VA9 – 59.46 VA10 – 54.93		a long-term decrease in the size of any fauna populations. Likewise, clearance will not significantly reduce the area of occupancy of any fauna species. The application area is located either side of an existing road, therefore clearance will not fragment an existing fauna population into two (2) or more populations. The application area consists of vegetation associations that are regionally well represented and are not critical habitat for any fauna species. Habitat within the application area is likely to provide for common fauna species only. Clearance of the application area will not result in an increase in invasive species that are harmful to a threatened species as construction will adhere to DIT protocols relating to weed management. No threatened species have been recorded within the application area therefore clearance is unlikely to interfere with the recovery of any threatened fauna species.
Principle 1(c) – plants of a rare, vulnerable or endangered species	No threatened flora species were recorded within the application areas during the field assessment. Given the disturbance history and physical characteristics (such as soil type) of the Project Area it is unlikely the threatened flora species identified within the desktop assessment would be present. The desktop assessment identified 12 threatened flora species	Seriously at Variance: No At Variance: No	No threatened flora species were recorded during the field assessment and given the proximity of recent records and grazing regime of the vegetation; it is unlikely any threatened flora species would be present within the Project Area. If any threatened flora populations were to be present, given the shape, size,



Principle of clearance	Relevant information	Assessment against the principles	Moderating factors that may be considered by the NVC			
	recorded within 50 kms of the Site within the preceding 20 years. Of these, all were considered unlikely to occur within the application areas.		and landscape context of the vegetation under application, it is unlikely clearance will lead to a long-term decrease in the size of any flora populations.			
	Threatened Flora Scores: All Vegetation Associations – 0		Furthermore, in the unlikely event threatened flora species were to be present within the application area, it is likely that given the shape and size of the area, a very small portion would be affected.			
Principle 1(d) – the vegetation comprises the whole or part of a plant community that is Rare, Vulnerable or endangered:	No threatened plant communities were identified within either the desktop assessment or during the Site inspections. Conservation Significance Scores: All Vegetation Associations – 1.26	Seriously at Variance: No At Variance: No	Not Applicable.			

4.6 Risk Assessment

Determine the level of risk associated with the application

Table 12 - Risk Assessment

Total clearance	No. of trees	N/A	
	Area (ha)	22.3	
	Total biodiversity Score	1263.27	
Seriously at varian	ce with principle 1(b), 1(c) or 1 (d)	1(b)	
Risk assessment o	utcome	Level 4	

5 Clearance Summary

Table 13 - Clearance Area Summary Table

Block	Site	Threatened Ecological community Score	Threatened plant score	Threatened fauna score	UBS	Area (ha)	Total Biodiversity score	Loss factor	SEB Points required	SEB payment	Admin Fee
Α	1	1	0	0.1	52.83	8.54	451.17	1	496.29	\$33,527.46	\$1,844.01
Α	2	1	0	0.1	50.57	0.04	2.02	1	2.22	\$149.97	\$8.25
Α	3	1	0	0.1	44.30	0.09	3.99	1	4.39	\$296.57	\$16.31
Α	4	1	0	0.1	54.87	2.23	122.36	1	134.60	\$5,373.17	\$295.53
Α	5	1	0	0.1	47.95	0.09	4.32	1	4.75	\$320.89	\$17.65
Α	6	1	0	0.1	58.86	0.56	32.96	1	36.26	\$2,449.59	\$134.73
Α	7	1	0	0.1	60.71	2.8	169.99	1	186.99	\$12,632.33	\$694.78
Α	8	1	0	0.1	69.44	2.36	163.88	1	180.27	\$12,178.35	\$669.81
Α	9	1	0	0.1	59.46	1.22	72.54	1	79.79	\$5,390.31	\$296,47
Α	10	1	0	0.1	54.93	4.37	240.04	1	264.04	\$17,837.54	\$981.06
					Total	22.3	1263.27		1389.6	\$90,156.18	\$4,958.60

Table 14 - Totals Summary Table

	Total Biodiversity score	Total SEB points required	SEB Payment	Admin Fee	Total Payment		
Application	1263.27	1389.6	\$90,156.18	\$4,958.60	\$95,114.78		

Economies of Scale Factor	0.110
Rainfall (mm)	186

6 Significant Environmental Benefit

A SEB is required for approval to clear under Division 5 of the *Native Vegetation Regulations 2017*. The NVC must be satisfied that as a result of the loss of vegetation from the clearance that an SEB will result in a positive impact on the environment that is over and above the negative impact of the clearance.

ACHIEVING AN SEB

Indicate how	the	SEB	will	be	achieved	by	ticking	the	appropriate	box	and	providing	the	associated
information:														

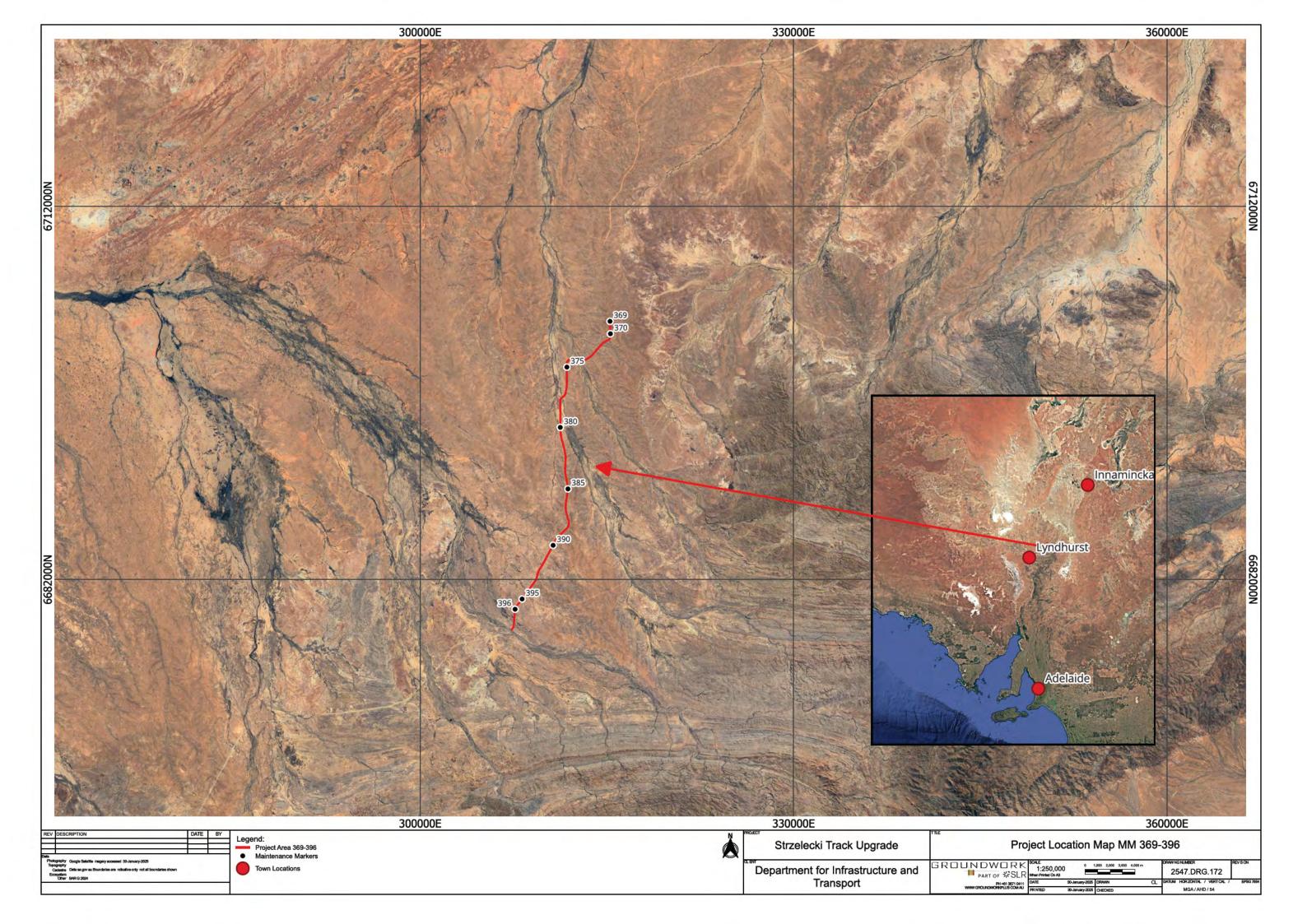
Establish a new SEB Area on land owned by the proponent.
Use SEB Credit that the proponent has established. Provide the SEB Credit Ref. No
Apply to have SEB Credit assigned from another person or body. The <u>application form</u> needs to be submitted with this Data Report.
Apply to have an SEB to be delivered by a Third Party. The <u>application form</u> needs to be submitted with this Data Report.
Pay into the Native Vegetation Fund.

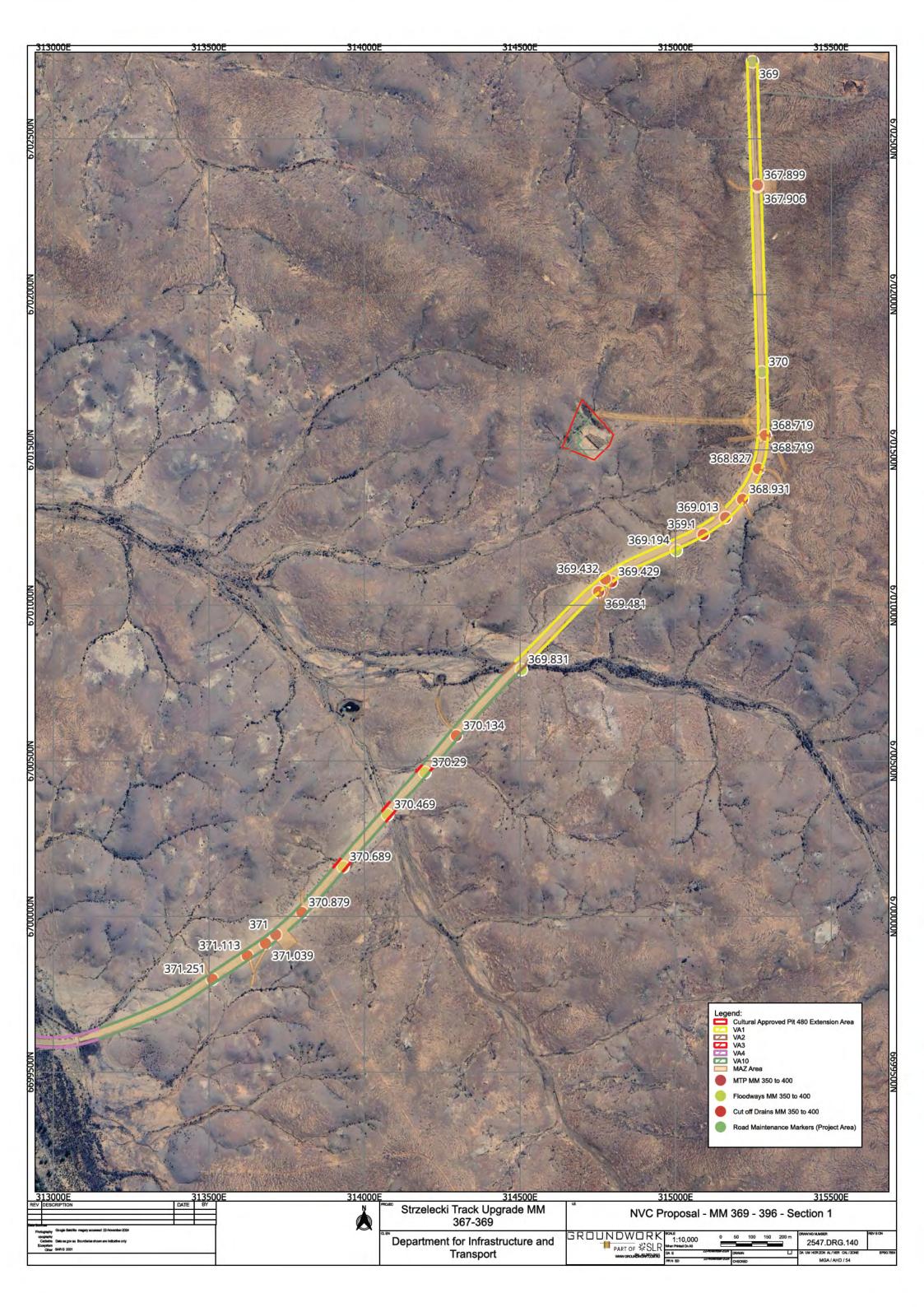
PAYMENT SEB

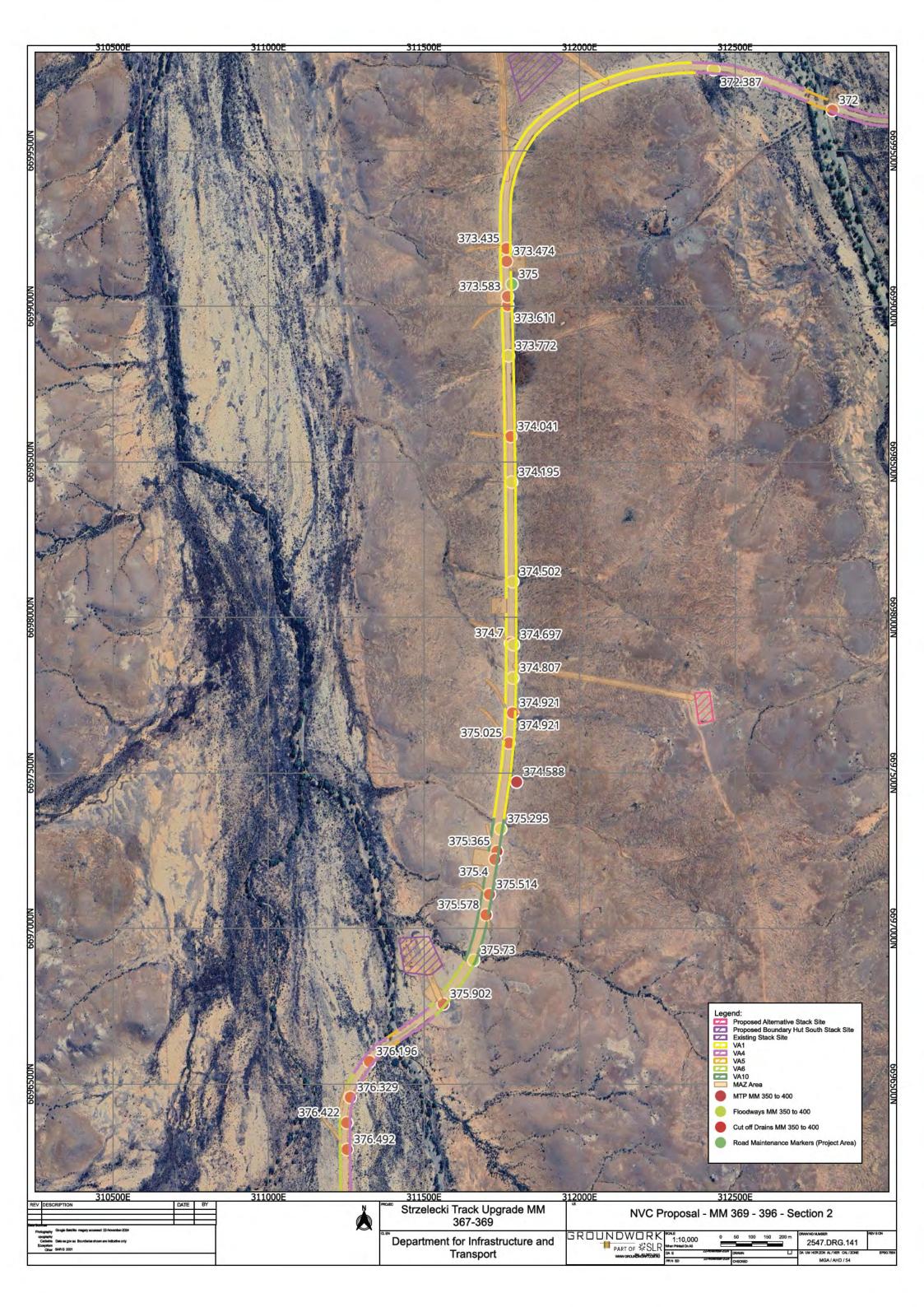
Payment of \$93,807.66, including administration fee of \$4,890.46, to be paid into the NVF.

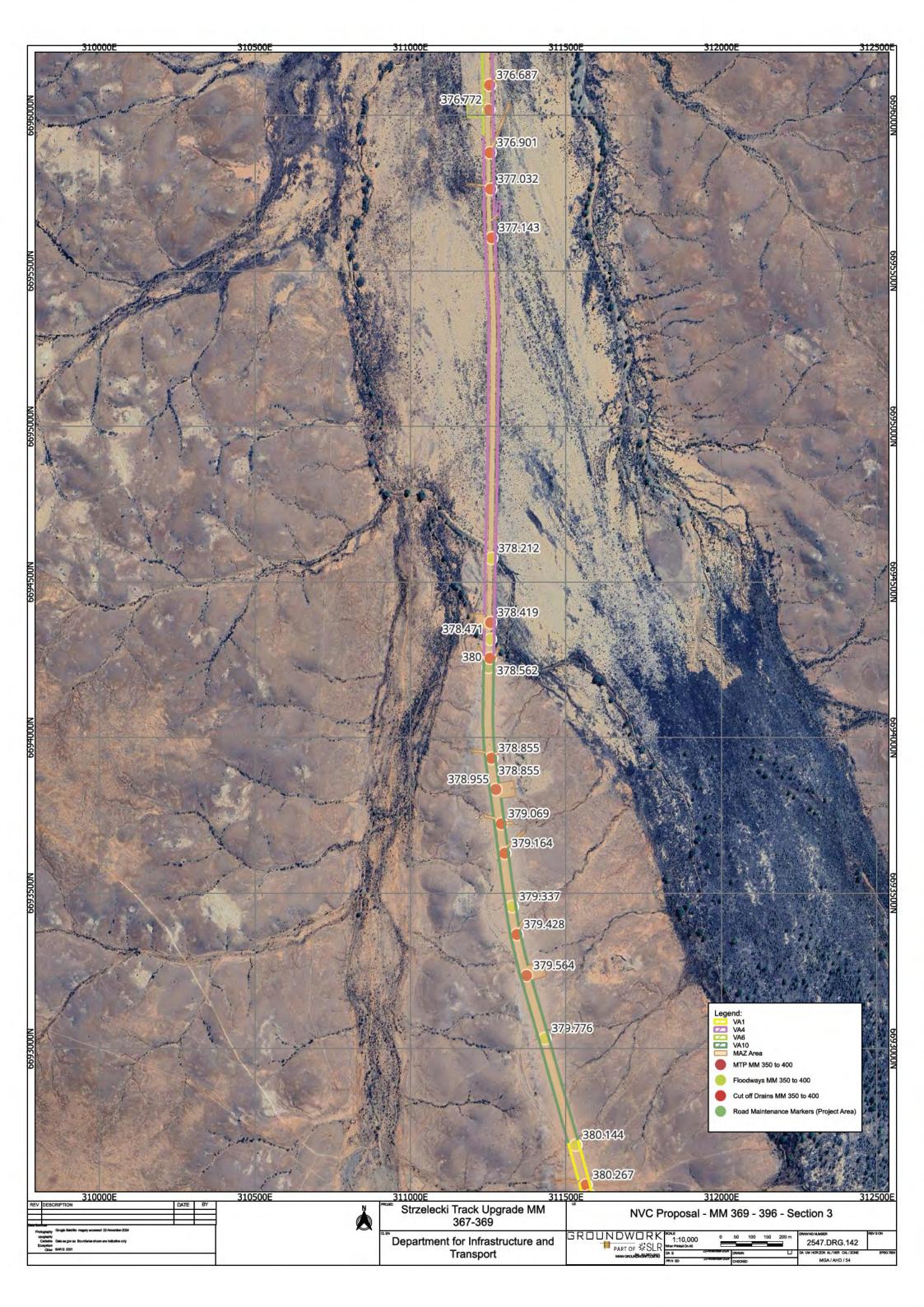


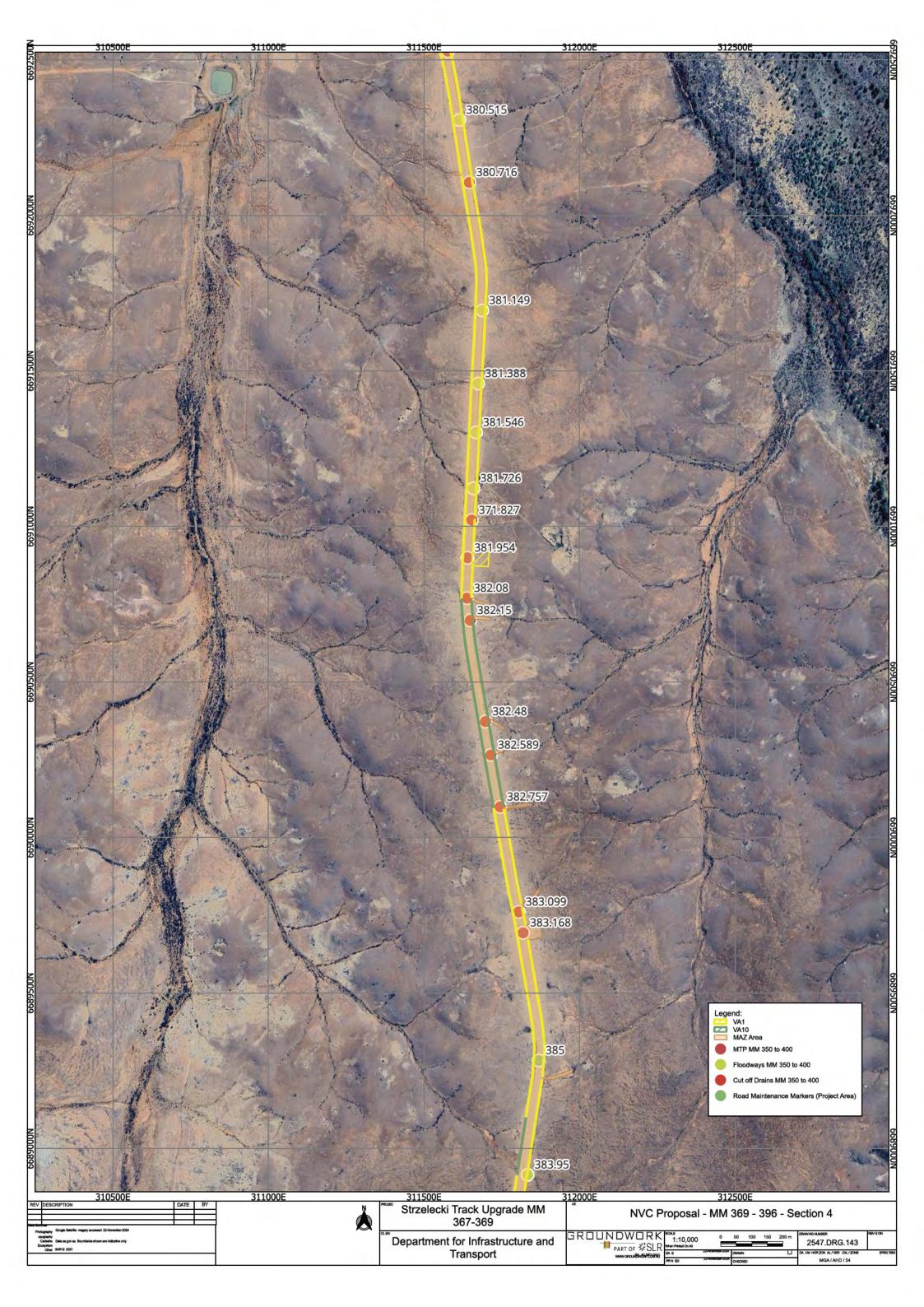
DRAWINGS

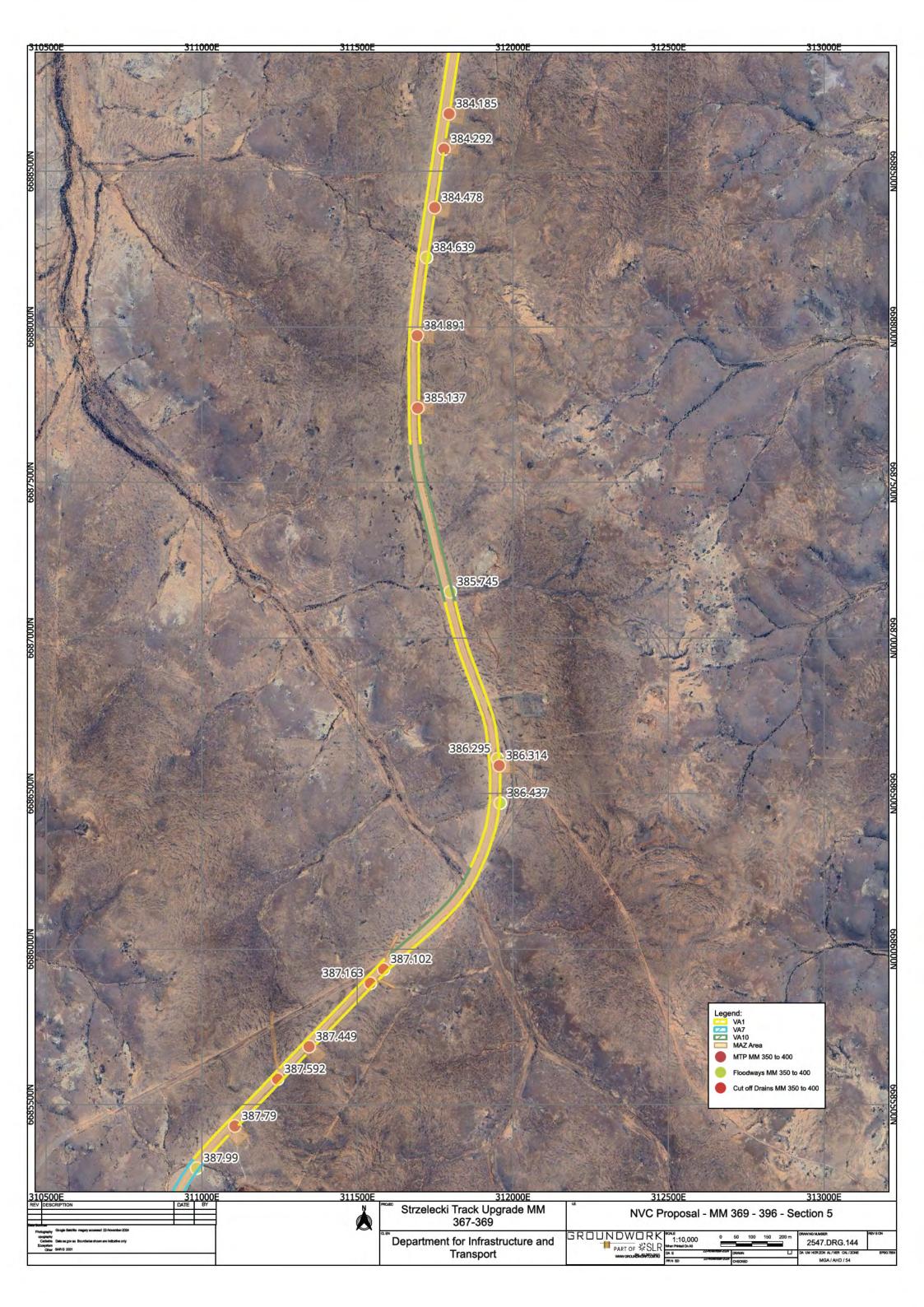


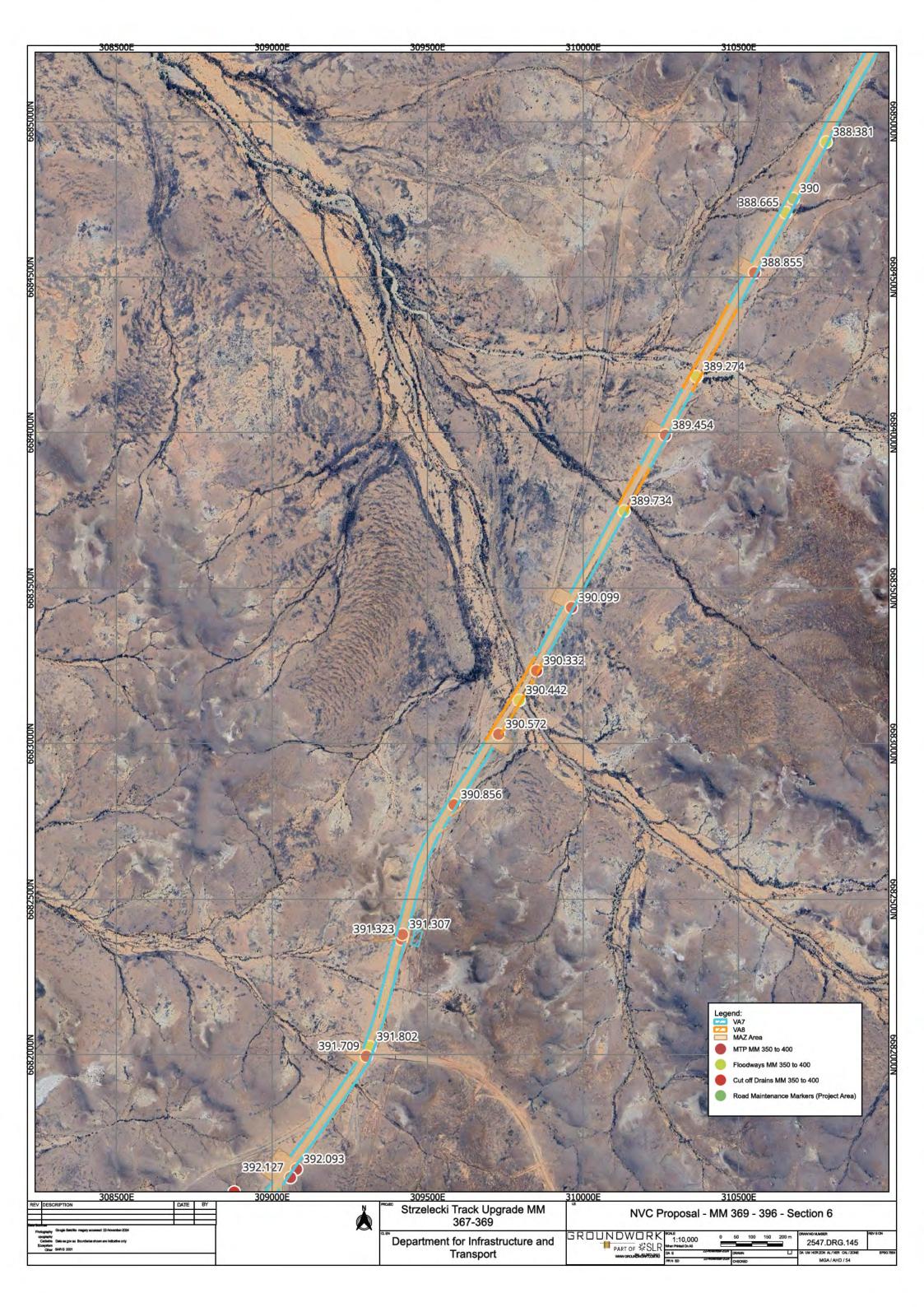


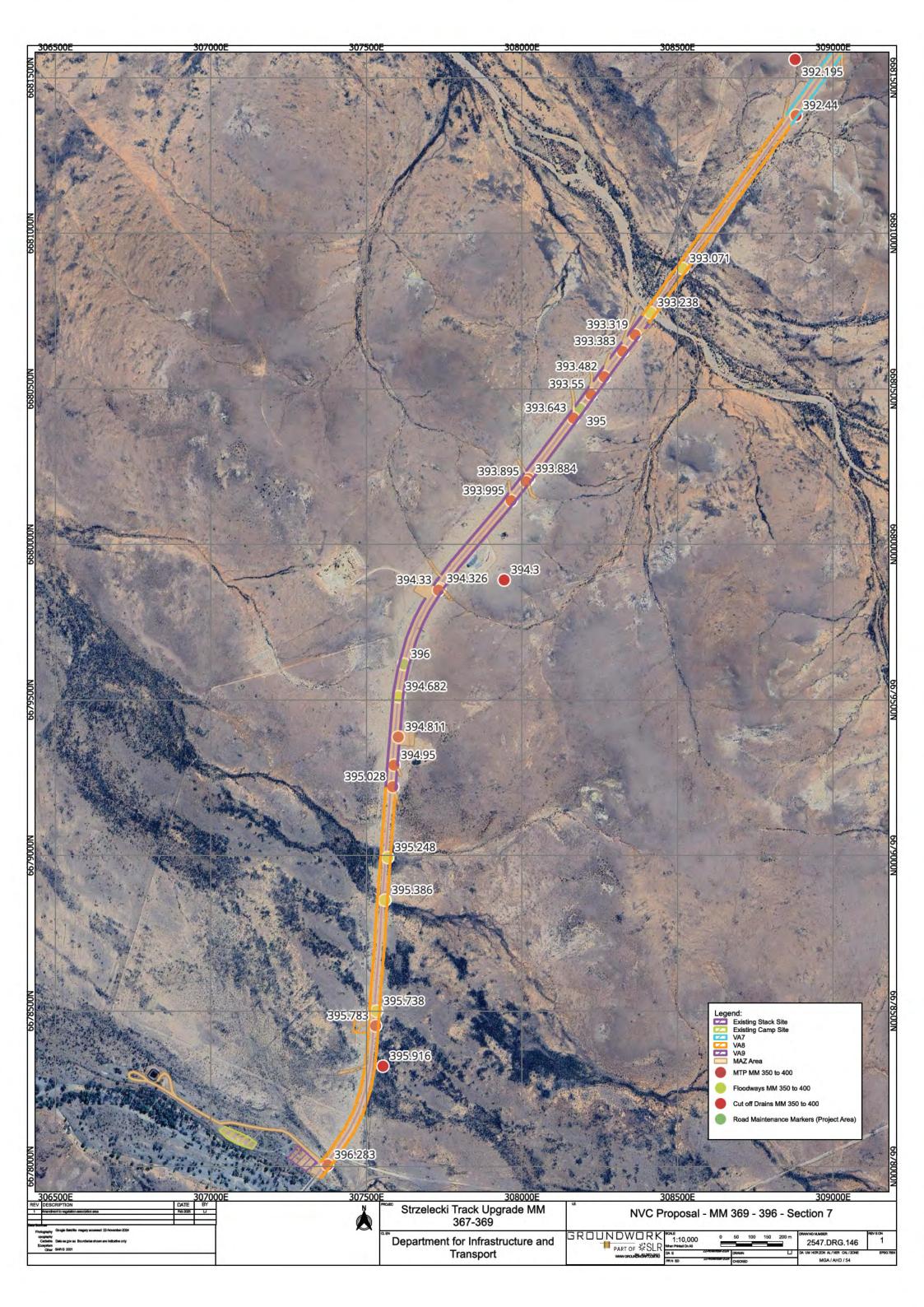












ATTACHMENTS

Attachment 1

Rangeland Assessment Scoresheets

(Version - 1 Sept 2024)

Block (name)	Strzelecki Track
Landscapes Region	South Australian Arid Lands
IBRA Sub Region	Murnpeowie
Property Name	DIT

ASSESSOR(S)	LJ
DATE OF ASSESSMENT	03-06 Dec 2024

Map of the Block (Including the Sites)

Insert Map

Landscape Context Scores

Number of Landform Features within Block	5
1 = 0.01pts, 2 = 0.03pts, >2 = 0.06pts	0.06

Size of the Block	
<10ha = 0; 10 - <100ha = 0.01pts; 100 - <500ha = 0.02p	ots;
500 - <1000ha = 0.03pts; 1000 - <2000ha = 0.04pts;	
2000 - 5000 = 0.05pts; >5000pts = 0.06pts	0

% native veg. protected in IBRA Sub region	1
0-2% = 0.05 pts; >2-5% = 0.04 pts; >5-10% = 0.03 pts;	
>10-25% = 0.02 pt; >25% = 0.01 pt	0.05

Wetland or Riparian Habitat present	
Does the block contain a wetland feature (Yes/No)	
Permanent or semi permanent = 0.08 pt	No
Contains water for at least 6 months of the year	
Occasionally contains water = 0.05 pts	Yes
Contains water approximately once every 5 years	
Very occasionally contains water = 0.02 pts	Yes
Contains water approximately once every 20 years	
Score	0.05

1.16

Plant Species	Common name	Palatability	Utilisation enter the tally from datasheet for each category. If a proportion (>50%, <50% or zero) was recorded in the field, enter the code for each proportion (>50% is 2, <50% is 1, and 0 is 0)			Age Class (M/Y/A)	Site Utilisation Score mean
		4	Intact	Modified	Over utilised		Itilisatio
			number (tally)	number (tally)	number (tally)		Site L
Maireana astrotricha	Low Bluebush	P	2			Adult	11.40
Astrebla pectinata	Barley Mitchell-grass	Р	2		*	Adult	
Abutilon halophilum	Plains Lantern-bush	P	2		1	Adult	
Eragrostis sp.	Love-grass	P	2			Adult	
	Tovo grass	P	2			Young	
Arabidella glaucescens			-		-	Touris	
	-	_			-		
	0						
	13						
	N. C.						
		- 10:17					
	-						
	-						
	-						
	0						
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	-						
	8-						
	-						
	All controls and the second						
		100-71					
		107.7					
	-						
	- 04						
					9	-	

Threatened Fauna - Recorded or Ob	oserved	Threatened Species			
Species	Common Name	ЕРВС	SA	Past Record	Observed
Amytornis modestus	Thick-billed Grasswren	VU		Yes	
Aphelocephala leucopsis leucopsis	Southern Whiteface	VU		Yes	
Falco subniger	Black Falcon		R	Yes	
Neophema elegans elegans	Elegant Parrot		R	Yes	
ni wasan wan in a wan i					
		1			
	-				
		71			
Threatened Flora Species - Recorde	a or Observed	Threat Specie			
	A Section Sect	0.0150	SA	Doct Docord	Observed
Species	Common Name	EPBC	SA	Past Record	
Species Species	Common Name	EPBC	SA	Past Record	
pecies	Common Name	ЕРВС	3A	rast Record	
pecies	Common Name	EPBC	SA	rast Record	
pecies	Common Name	EPBC	SA.	rast Record	
pecies	Common Name	EPBC	5A	rast Record	
pecies	Common Name	EPBC	SA .	rast Record	
pecies	Common Name	EPBC	3A	rast Record	
pecies	Common Name	EPBC	SA .	rast Record	
pecies	Common Name	EPBC	JA .	rast Record	
pecies	Common Name	EPBC	JA .	rast Record	
pecies	Common Name	EPBC	JA .	rast Record	
pecies	Common Name	EPBC	JA .	rast Record	
pecies	Common Name	EPBC	JA .	rast record	
pecies	Common Name	EPBC	JA .	rast Record	
pecies	Common Name	EPBC	JA .	rast record	
pecies	Common Name	EPBC	JA .	rast record	
pecies	Common Name	EPBC	JA .	rast record	
pecies	Common Name	EPBC	JA .	rast record	
pecies	Common Name	EPBC	JA .	rast record	
pecies	Common Name	EPBC	JA .	rast record	
pecies	Common Name	EPBC	JA .	rast record	
pecies	Common Name	EPBC	JA .	rast record	
pecies	Common Name	EPBC	JA .	rast record	

Species	200000000000000000000000000000000000000			Introduced
	Common Name	Past Record Yes	Observed	Species *
Passer domesticus domesticus	House Sparrow	Yes		*
Bos taurus	Cattle (European Cattle) Feral Dog, Dingo	Yes		*
Canis lupus	Dingo	Yes		*
Canis lupus dingo	Diligo	Yes		*
Canis sp.	Goat (Feral Goat)	Yes		*
Capra hircus	Donkey (Feral Donkey)	Yes		*
Equus asinus	Donkey (Feral Donkey)	Yes		*
Equus sp. Felis catus	Domestic Cat (Feral Cat)	Yes		*
Mus musculus	House Mouse	Yes		*
Oryctolagus cuniculus	Rabbit (European Rabbit)	Yes		*
Ovis aries	Sheep (Feral Sheep)	Yes		*
	Fox (Red Fox)	Yes		*
Vulpes vulpes	Tox (ned Tox)	163		
	-			-
	4			1
	4			
	-			+
	4			
	-			-
	4			
	-			-
	4			
	+			
Introduced Flora Species - Re	corded or Observed			
Species	Common Name	Past Record	Observed	
	1			
	S-12			
				-

Vegetation Condition Scores					
ITE (name): VA1			SIZE OF	SITE (Ha)	8.54
/EGETATION ASSOCIATION DESCRIPTION	GETATION ASSOCIATION DESCRIPTION Sclerolaena		ssocarpus	paradoxa l	ow very open shi
LANDSCAPE TYPE	Plain – lev	'el			
SURFACE CHARACTER Dominant	Stony	1	Minor		
Biotic Disturbance Indicators Sites with trees and large shrubs only (select one tickbox for e	each row)	Dominant >50%	Minor <50%	None - 0	Score
Presence of palatable shrubs or perennial grasses under the tree/shrub >3m				П	
Presence of mostly intact litter mats under canopy of tree/shru >50% of tree canopy area has intertwined litter or shrub cover					
	Total Sco	re (Max 10 -	weighted	l by 2.5)	
Physical Disturbance Indicators		Dominant >50%	Minor <50%	None - 0	Score
Prevalence of large patches of bare soil (> 5m x 5m) that shoot productive capacity (ie ephemeral plant litter, stems etc.)	ws no signs		•		
Evidence of animal tracks, vehicle tracks or other physical dis the natural land surface	turbance to		J		Y
Destabilised creek channel banks (if present), characterised by vegetation or stabilizing roots, deflation and bank erosion. Inso on both sides of channels.		0		ū	
	Total Sco	re (Max 18 -	weighted	by 3)	
Vegetation Stratum (tick the <u>Present</u> box for all stratum that Absent box of any stratum that should be present but have be			Present	Absent	Note; don't tick either box if stratum was likely
Trees/shrubs >3m					never present -
Shrubs 1- 3m				☑	e.g. Trees
Low shrubs <1m & hummock grasses					stratum in a low shrubland
Perennial tussock grasses with basal areas >30mm	Total Sco	re (Max 16 -	weighted	by 4)	6.0
				losiset	
Introduced Plant Species				Select	Score
Declared species present?				-	
Introduced species dominate (>50% of vegetation cover)	Transport	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \			-
Moderate invasion of introduced species (5 to 50% of the veg Very sparse to nil introduced species present (<5% of vegetat)	_		
very sparse to hii introduced species present (<5 % or vegetal		re (Max 10 -	weighted	-	10
Vegetation Utilisation Score					
	Total Sco	re (Max 26)			11.40
Vegetation Condition Score Calculation					
VEGETATION CONDITION SCORE					41.40
Low Vegetation Utilisation Score	M	edium		High	
Introduced Plant Species Score				- 1	
Vegetation Stratum Score					
Physical Disturbance Indicator					
Biotic Disturbance Indicator					

ı

Conservation Significance Sc	ore			
Is the vegetation association considered a Threatene	d Ecological cor	nmunity or Ecosystem?		Tick if Yes
State (Provisional List of Threatened Ecosystems of SA) Rare community (0.1 pt)				
State (Provisional List of Threatened Ecosystems of SA) Vulnerable community (0.2 pts)				
State (Provisional List of Threatened Ecosystems of SA) Endangered community (0.2 pts)				
Nationally (EPBC Act) Vulnerable community (0.3		, (,		
Contains a Nationally (EPBC Act) Endangered or		ngered community (0.4	ots)	
Note; all sites will score a minimum Conservation Signific	-		Score	1
Number of Threatened Plant Species recorded	for within the S	Site		Number
*If a species has both a State (NP&W Act) and Nat			ed for its National ratin	a
State Rare species recorded (1 pt each)	ional (El Borio	y raining, it o only roborate	Ta for he francisco far famili	0
State Vulnerable species recorded (2.5 pt each)				0
State Endangered recorded (5 pts each)				0
Nationally Vulnerable species recorded (10 pts each)	ch)			0
Nationally Endangered or Critically endangered		d (20 nts each)		0
0 = 0 pts; <2 = 0.04 pts; 2 - <5			16 pts: 20 or > = 0.2 pts	0
5 5 pa, 2 5.5 pa, 2 5	0.00 ptd, 0	o. 12 pts, 10 25 0.	Score	0
			20010	
Potential habitat for Threatened Animal Species				Number
*If a species has both a State (NP&W Act) and Nat		t) rating, it's only recorde	ed for its National ratin	g.
State Rare species observed or locally recorded (1	pt each)			2
State Vulnerable species observed or locally recor	ded (2.5 pt each	າ)		0
State Endangered species observed or locally reco	orded (5 pt eac	h)		0
Nationally Vulnerable species observed or locally r	recorded (10 pts	each)		2
Nationally Endangered or Critically endangered :	species observe	d or locally recorded (20	pts each)	0
0 = 0 pts; <2 = 0.02 pts; 2 - <	5 = 0.04 pts; 5 - <	10 = 0.06 pts; 10 - <20 = 0.	08pts; 20 or > = 0.1 pts	22
			Score	0.1
CONSERVATION SIGNIFICANCE SCORE				1.1
Total Scores for the Site		Vegetation Condition	x Landscape Conte	ext x
		Conservation Signific	cance =	
LANDSCAPE CONTEXT SCORE	1.16	UNIT BIODIVERSIT	Y SCORE	52.83
VEGETATION CONDITION SCORE	41.40	Total Biodiversity S	core	
CONSERVATION SIGNIFICANCE SCORE	1.10	(Biodiversity Score	x hectares)	451.17
		,	,	
Photo Point and Vegetation Survey Location			Direction of the Pho	oto
			one neference	
			GPS Reference	
			Datum	
			Zone (52, 53 or 54) Easting (6 digits)	
			Northing (7 digits)	
			Description	
			Description	
Insert Photopoint	Photo			
'				

SEB Offset Calculations (when assessing a proposed clearance site)

SEB Points Required	
Loss Factor	1.0
Loadings for clearance of protected areas	
Reductions for rehabilitation of impact site	
SEB Uplift Factor	1.10
Total SEB Points Required	496.29

SEB - Payment	
SEB points of gain/ha Factor	7.5
Approximate SEB hectares required	66.17
Management Cost (\$/ha)	\$24,764
Economies of Scale Factor	0.11
Mean Annual rainfall for the site (mm)	186
Payment into the Fund (GST exclusive)	\$33,527.46
Administration fee (GST inclusive)	\$1,844.01
Total Payment Required	\$35,371.47

(Version - 1 Sept 2024)

Block (name)	Strzelecki Track	
Landscapes Region	South Australian Arid Lands	
IBRA Sub Region	Murnpeowie	
Property Name	DIT	

ASSESSOR(S)	LJ
DATE OF ASSESSMENT	03-06 Dec 2024

Map of the Block (Including the Sites)

Insert Map

Landscape Context Scores

Number of Landform Features within Block	5
1 = 0.01pts, 2 = 0.03pts, >2 = 0.06pts	0.06

Size of the Block	
<10ha = 0; 10 - <100ha = 0.01pts; 100 - <500ha = 0.02p	ots;
500 - <1000ha = 0.03pts; 1000 - <2000ha = 0.04pts;	
2000 - 5000 = 0.05pts; >5000pts = 0.06pts	0

% native veg. protected in IBRA Sub region	1
0-2% = 0.05 pts; >2-5% = 0.04 pts; >5-10% = 0.03 pts;	
>10-25% = 0.02 pt; >25% = 0.01 pt	0.05

Wetland or Riparian Habitat present	
Does the block contain a wetland feature (Yes/No)	
Permanent or semi permanent = 0.08 pt	No
Contains water for at least 6 months of the year	
Occasionally contains water = 0.05 pts	Yes
Contains water approximately once every 5 years	
Very occasionally contains water = 0.02 pts	Yes
Contains water approximately once every 20 years	
Score	0.05

1.16

Plant Species	Common name	Palatability	Utilisation enter the tally from datasheet for each category. If a proportion (>50%, <50% or zero) was recorded in the field, enter the code for each proportion (>50% is 2, <50% is 1, and 0 is 0)			Age Class (M/Y/A)	Site Utilisation Score mean
		ă	Intact	ct Modified	Over utilised		tilisatio
			number (tally)	number (tally)	number (tally)		Site U
Eremophila longifolia	Weeping Emubush	HP		2		Mixed	13.
Acacia victoriae ssp.	Elegant Wattle	Р	2			Mixed	
Rhagodia spinescens	Spiny Saltbush	Р	2			Adult	
Eragrostis sp.	Love-grass	Р	2			Adult	
Acacia salicina	Willow Wattle	U	2			Mixed	
Pittosporum angustifolium	Native Apricot	HP		2		Mixed	
Santalum lanceolatum	Plumbush	HP		2		Mixed	
Abutilon leucopetalum	Desert Lantern-bush	Р	2			Adult	
Acacia tetragonophylla	Dead Finish	Р	2			Adult	
Einadia nutans ssp.	Climbing Saltbush	Р	2			Adult	
Lycium australe	Australian Boxthorn	U	2			Adult	
Ptilotus obovatus	Silver Mulla Mulla	Р		2		Adult	
	A. C.						

Threatened Fauna - Recorded or Ob	oserved	Threatened Species			
Species	Common Name	ЕРВС	SA	Past Record	Observed
Amytornis modestus	Thick-billed Grasswren	VU		Yes	
Aphelocephala leucopsis leucopsis Falco subniger	Southern Whiteface	VU		Yes	
	Black Falcon		R	Yes	
Neophema elegans elegans	Elegant Parrot		R	Yes	
ni wasan wan in a wan i					
		1			
	-				
		71			
Threatened Flora Species - Recorde	a or Observed	Threat Specie			
	A Section Sect	0.0150	SA	Doct Docord	Observed
Species	Common Name	EPBC	SA	Past Record	
Species Species	Common Name	EPBC	SA	Past Record	
pecies	Common Name	ЕРВС	3A	rast Record	
pecies	Common Name	EPBC	SA	rast Record	
pecies	Common Name	EPBC	SA.	rast Record	
pecies	Common Name	EPBC	5A	rast Record	
pecies	Common Name	EPBC	SA .	rast Record	
pecies	Common Name	EPBC	3A	rast Record	
pecies	Common Name	EPBC	SA .	rast Record	
pecies	Common Name	EPBC	JA .	rast Record	
pecies	Common Name	EPBC	JA .	rast Record	
pecies	Common Name	EPBC	JA .	rast Record	
pecies	Common Name	EPBC	JA .	rast Record	
pecies	Common Name	EPBC	JA .	rast record	
pecies	Common Name	EPBC	JA .	rast Record	
pecies	Common Name	EPBC	JA .	rast record	
pecies	Common Name	EPBC	JA .	rast record	
pecies	Common Name	EPBC	JA .	rast record	
pecies	Common Name	EPBC	JA .	rast record	
pecies	Common Name	EPBC	JA .	rast record	
pecies	Common Name	EPBC	JA .	rast record	
pecies	Common Name	EPBC	JA .	rast record	
pecies	Common Name	EPBC	JA .	rast record	
pecies	Common Name	EPBC	JA .	rast record	

Common Name	Past Pasard	Observed	Introduced
The state of the s		Observed	Species *
	100		*
		0	*
	20.7		*
	Yes		*
Goat (Feral Goat)	Yes		*
and the second of the second o	1000		*
***************************************	The state of the s		*
Domestic Cat (Feral Cat)	Yes		*
	0.00		*
Market and the second s	0.7		*
and the second s	- A		*
	100-0		*
The state of the s			
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-			_
corded or Observed			
I a more ways		lot t	
	Past Record		
		Yes	*
Ward's Weed		Yes	*
Smooth Mustard		Yes	*
Couch		Yes	*
1			
+			
	Smooth Mustard	House Sparrow Cattle (European Cattle) Feral Dog, Dingo Dingo Ves Goat (Feral Goat) Donkey (Feral Donkey) Yes Domestic Cat (Feral Cat) House Mouse Rabbit (European Rabbit) Sheep (Feral Sheep) Fox (Red Fox) Yes Corded or Observed Caltrop Ward's Weed Smooth Mustard	House Sparrow Cattle (European Cattle) Feral Dog, Dingo Dingo Yes Goat (Feral Goat) Donkey (Feral Donkey) Yes Domestic Cat (Feral Cat) House Mouse Rabbit (European Rabbit) Sheep (Feral Sheep) Fox (Red Fox) Corded or Observed Caltrop Ward's Weed Smooth Mustard Yes Yes Past Record Yes Observed Yes Observed Yes Past Record Yes Yes Past Record Yes Yes Yes Yes Yes Yes Yes Yes

Vegetation Condition Scores							
TE (name): VA2			SIZE OF SITE (Ha) 0.04				
/EGETATION ASSOCIATION DESCRIPTION	Eremophila longifolia +			/- Acacia spp. +/- Santalum lanceolatu			
ANDSCAPE TYPE	Drainage lines / floodouts						
SURFACE CHARACTER Dominant	Cracking		Minor	Stony			
Biotic Disturbance Indicators Sites with trees and large shrubs only (select one tickbox for e	each row)	Dominant >50%	Minor <50%	None - 0	Score		
Presence of palatable shrubs or perennial grasses under the tree/shrub >3m			7				
Presence of mostly intact litter mats under canopy of tree/shruk >50% of tree canopy area has intertwined litter or shrub cover		0	7	0			
	Total Sco	re (Max 10 -	weighted	by 2.5)			
Physical Disturbance Indicators		Dominant >50%	Minor <50%	None - 0	Score		
Prevalence of large patches of bare soil (> 5m x 5m) that sho of productive capacity (ie ephemeral plant litter, stems etc.)	ws no signs		7				
Evidence of animal tracks, vehicle tracks or other physical dis the natural land surface	turbance to	V					
Destabilised creek channel banks (if present), characterised by vegetation or stabilizing roots, deflation and bank erosion. Inso on both sides of channels.		V		Б			
	Total Sco	re (Max 18 -	weighted	by 3)			
Vegetation Stratum (tick the <u>Present</u> box for all stratum that Absent box of any stratum that should be present but have be			Present	Absent	Note; don't tick either box if stratum was likel		
Trees/shrubs >3m			7		never present -		
Shrubs 1- 3m			Ø.		e.g. Trees		
Low shrubs <1m & hummock grasses			D D		stratum in a low shrubland		
Perennial tussock grasses with basal areas >30mm	Total Sco	re (Max 16 -		by 4)	16.		
Introduced Plant Species				Select	Score		
Declared species present?				Yes			
introduced species dominate (>50% of vegetation cover)							
Moderate invasion of introduced species (5 to 50% of the veg	etation cover	.)		7			
Very sparse to nil introduced species present (<5% of vegetat		,					
		re (Max 10 -	weighted	by 2.5)	2.		
Vegetation Utilisation Score	-	(14 00)			10.4		
	Total Sco	re (Max 26)			13.1		
Vegetation Condition Score Calculation					37.5		
VEGETATION CONDITION SCORE					39.63		
Low Vegetation Utilisation Score	M	ledium		High			
Introduced Plant Species Score							
Vegetation Stratum Score							
Physical Disturbance Indicator							
Biotic Disturbance Indicator							

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Conservation Significance Score					
Is the vegetation association considered a Threatene	ed Ecological	com	munity or Ecosystem?		Tick if Yes
State (Provisional List of Threatened Ecosystems of SA) Rare community (0.1 pt)					
State (Provisional List of Threatened Ecosystems of SA) Vulnerable community (0.2 pts)					
State (Provisional List of Threatened Ecosystems of SA) Endangered community (0.3 pts)					
Nationally (EPBC Act) Vulnerable community (0.3		•	• • • • •		
Contains a Nationally (EPBC Act) Endangered or		dan	gered community (0.4)	ots)	
Note; all sites will score a minimum Conservation Signific			, , ,	Score	1
Number of Threatened Plant Species recorded	for within the	e Si	te_		Number
*If a species has both a State (NP&W Act) and Nat	tional (EPBC	Act)	rating, it's only recorde	d for its National ratin	g.
State Rare species recorded (1 pt each)			<u> </u>		0
State Vulnerable species recorded (2.5 pt each)					0
State Endangered recorded (5 pts each)					0
Nationally Vulnerable species recorded (10 pts ea	ch)				0
Nationally Endangered or Critically endangered	,	ded	(20 pts each)		0
0 = 0 pts; <2 = 0.04 pts; 2 - <5				6 pts; 20 or > = 0.2 pts	0
				Score	0
				•	
Potential habitat for Threatened Animal Species					Number
*If a species has both a State (NP&W Act) and Nat		Act)	rating, it's only recorde	d for its National ratin	g.
State Rare species observed or locally recorded (1					2
State Vulnerable species observed or locally recor		•			0
State Endangered species observed or locally rec	, ,		•		0
Nationally Vulnerable species observed or locally	recorded (10	pts (each)		2
Nationally Endangered or Critically endangered	species obse	rved	or locally recorded (20	pts each)	0
0 = 0 pts; <2 = 0.02 pts; 2 - <	5 = 0.04 pts; 5	- <1	0 = 0.06 pts; $10 - <20 = 0.06$	08pts; 20 or > = 0.1 pts	22
				Score	0.1
CONSERVATION SIGNIFICANCE SCORE					1.1
Total Scores for the Site			Vegetation Condition	•	ext x
	Conservation Significance =				
LANDSCAPE CONTEXT SCORE	1.16		UNIT BIODIVERSIT	Y SCORE	50.57
VEGETATION CONDITION SCORE	39.63		Total Biodiversity S	core	
CONSERVATION SIGNIFICANCE SCORE	1.10		(Biodiversity Score	x hectares)	2.02
Photo Point and Vegetation Survey Location				Direction of the Pho	oto
				GPS Reference	
				Datum	
				Zone (52, 53 or 54)	
				Easting (6 digits)	
				Northing (7 digits)	
				Description	
				Description	
Insert Photopoint	Photo				

186

\$149.97

\$158.22

\$8.25

SEB Offset Calculations (when assessing a proposed clearance site)

1.0
1.10
2.22
7.5
0.30
\$24,764
0.11

Mean Annual rainfall for the site (mm)

Administration fee (GST inclusive)

Total Payment Required

Payment into the Fund (GST exclusive)

SEB Points Provided Calculations

Answer these questions when assessing a site within a proposed SEB area Refer to the SEB Guide (section on 'Adjust the SEB Points of Gain') for more information

Assessment of SEB site - On ground		
What is the risk of decline or loss of vege	etation in the next 20 years?	
Has stock grazing been absent from the site NVC)?	e for 10 or more years (and cannot be introduced without approval from the	
Is the land subject to zoning or a dedication zone, recreation or open space zoning or cr	that is generally restrictive of development activities (e.g. conservation own land dedication)?	
	dentified that would result in the decline of the vegetation condition SEB offset provider such as climate change).	
Is the land subject to legally binding obligati	ons (contractual or legislated) that provide an existing level of protection se of the land or prevents the vegetation from being harmed) that is	
Likely % Loss	0.04	Standard
Will the proposed SEB area be subject to ma requirements as set out in the SEB Policy?	nagement actions that are clearly and significantly in excess of the sta	andard
Will a very high standard of revegetation be	conducted, including the establishment of a very high proportion of the within the relevant vegetation community, and all strata (which should be lges, herbs and ground cover plants?	
Will fencing be installed (in excess of the state) excessive herbivory by native and introduce	andard stock exclusion fencing) in order to exclude introduced species or d fauna?	
Will intensive and substantial management association with the proposed clearance for	of threatened flora or fauna be undertaken which is not required in which the SEB is being provided?	
Ave the averaged mean are at a stick and and	their earle of immediates and arrest through the district of some or legislation 2	
	heir scale of impact already required by duty of care or legislation?	
control of species declared for control under	en committed to in the proposed SEB management plan, such as minimal the <i>Landscapes SA Act 2019</i> .	
Are the management interventions practicall some way?	y difficult to achieve or is the recovery of the vegetation likely to be inf	nibited in
	control of the SEB offset provider, that are technically or practically difficult aged to their fullest possible extent (e.g. weed infestations within difficult to	
and slow the rate of recovery? This may inc	ints which are likely to significantly impede the rehabilitation of vegetation lude compacted soils or altered soil chemistry (e.g. high nutrients/salinity ease, significant erosion that cannot be controlled without impacting native seases.	
Likely Improvement Due to Management	8.07	Standard
In relation to sites requiring substantial rever	getation, is it highly likely that a good outcome will be achieved?	
	etor) have significant experience and capability with sufficient resources in	
Are there other risk factors which make the c	outcome uncertain? NVB assessment only	
	ant actions and the outcomes are uncertain? Are there other issues that	
	et that are not already addressed by the above questions?	
Likelihood of Achieving the Outcome	0.50	Standard
Future Negative UBS Score	48.55	
Future Positive UBS Score	55.72	
UBS Gain Score	7.17	
Estimate of SEB Points provided	0.29	
This is an estimate only and will be subject to re	view and verification by the Native Vegetation Council.	
If you answered 'yes' to any question, provide ju		

(Version - 1 Sept 2024)

Block (name)	Strzelecki Track
Landscapes Region	South Australian Arid Lands
IBRA Sub Region	Murnpeowie
Property Name	DIT

ASSESSOR(S)	LJ
DATE OF ASSESSMENT	03-06 Dec 2024

Map of the Block (Including the Sites)

Insert Map

Landscape Context Scores

Number of Landform Features within Block	5
1 = 0.01pts, 2 = 0.03pts, >2 = 0.06pts	0.06

Size of the Block		
<10ha = 0; 10 - <100ha = 0.01pts; 100 - <500ha = 0.02pts;		
500 - <1000ha = 0.03pts; 1000 - <2000ha = 0.04pts;		
2000 - 5000 = 0.05pts; >5000pts = 0.06pts	0	

% native veg. protected in IBRA Sub region	1
0-2% = 0.05 pts; >2-5% = 0.04 pts; >5-10% = 0.03 pts;	
>10-25% = 0.02 pt; >25% = 0.01 pt	0.05

Wetland or Riparian Habitat present				
Does the block contain a wetland feature (Yes/No)				
Permanent or semi permanent = 0.08 pt	No			
Contains water for at least 6 months of the year				
Occasionally contains water = 0.05 pts	Yes			
Contains water approximately once every 5 years				
Very occasionally contains water = 0.02 pts	Yes			
Contains water approximately once every 20 years				
Score	0.05			

1.16

Plant Species	Common name	Palatability	Utilisation enter the tally from datasheet for each category. If a proportion (>50%, <50% or zero) was recorded in the field, enter the code for each proportion (>50% is 2, <50% is 1, and 0 is 0)			Age Class (M/Y/A)	Site Utilisation Score mean
		ă	Intact	Modified	Over utilised	(, .,,,	tilisation
			number (tally)	number (tally)	number (tally)		Site U
Acacia victoriae ssp.	Elegant Wattle	P	2	1		Mixed	10.22
Eremophila duttonii	Harlequin Emubush	U	2			Mixed	
Astrebla pectinata	Barley Mitchell-grass	P	2			Adult	
Abutilon halophilum	Plains Lantern-bush	Р	2			Adult	
Acacia tetragonophylla	Dead Finish	Р	2			Adult	
Enchylaena tomentosa var.	Ruby Saltbush	P	2			Adult	
Eragrostis sp.	Love-grass	Р	2			Adult	
Lycium australe	Australian Boxthorn	U			2	Adult	
	And the second s		,				

Threatened Fauna - Recorded or Ob	served	Threat Specie			
Species	Common Name	EPBC	SA	Past Record	Observed
Amytornis modestus	Thick-billed Grasswren	VU		Yes	
Aphelocephala leucopsis leucopsis	Southern Whiteface	VU		Yes	
Falco subniger	Black Falcon		R	Yes	
Neophema elegans elegans	Elegant Parrot		R	Yes	
notes and an arrangement of the second					
	II .				
	I				
	Ū				
		13			
Threatened Flora Species - Recorde	d or Observed	Threat Specie			
Species	Common Name	EPBC	SA	Past Record	Observed
		- 1			
	1				
		1			
	1				
	4	#1			
				*	

				Introduced
Species	Common Name	Past Record	Observed	Species
Passer domesticus domesticus	House Sparrow	Yes		*
Bos taurus	Cattle (European Cattle)	Yes		*
Canis lupus	Feral Dog, Dingo	Yes		*
Canis lupus dingo	Dingo	Yes		*
Canis sp.		Yes		*
Capra hircus	Goat (Feral Goat)	Yes		*
Equus asinus	Donkey (Feral Donkey)	Yes		*
Equus sp.		Yes		*
Felis catus	Domestic Cat (Feral Cat)	Yes		*
Mus musculus	House Mouse	Yes		*
Oryctolagus cuniculus	Rabbit (European Rabbit)	Yes		*
Ovis aries	Sheep (Feral Sheep)	Yes		*
Vulpes vulpes	Fox (Red Fox)	Yes		*
				-
	*			
	+			
Introduced Flore Species De	sorded or Observed			- 1
Introduced Flora Species - Re	ecorded or Observed			
Species	Common Name	Past Record Observed		
	Ward's Weed		Yes	
			162	*
Carrichtera annua	ward's weed			
Carrichtera annua	ward's weed			
Carrichtera annua	Ward's Weed			
Carrichtera annua	Ward's Weed			
Carrichtera annua	Ward's Weed			
Carrichtera annua	Ward's Weed			
Carrichtera annua	Ward's Weed			
Carrichtera annua	Ward's Weed			
Carrichtera annua	Ward's Weed			
Carrichtera annua	Ward's Weed			
Carrichtera annua	Ward's Weed			
Carrichtera annua	Wata's weed			
Carrichtera annua	Ward's Weed			
Carrichtera annua	Wata's Weed			
Carrichtera annua	Wald's Weed			
Carrichtera annua	Watas weed			
Carrichtera annua	Watu's Weed			
Carrichtera annua	Wald's Weed			
Carrichtera annua	Watu's Weed			
Carrichtera annua	Wald's Weed			
Carrichtera annua	Wald's Weed			
Carrichtera annua	Watu's Weed			
Carrichtera annua	Watu's Weed			
Carrichtera annua	Walta's Weed			

Vegetation Condition Scores					
ITE (name): VA3			SIZE OF SITE (Ha) 0.09		
EGETATION ASSOCIATION DESCRIPTION Acacia victoriae +/- Ere			luttonii opei	n shrubland	
LANDSCAPE TYPE	Drainage I	lines / floodo	uts		
SURFACE CHARACTER Dominant	Cracking		Minor	Stony	
Biotic Disturbance Indicators Sites with trees and large shrubs only (select one tickbox for e	each row)	Dominant >50%	Minor <50%	None - 0	Score
Presence of palatable shrubs or perennial grasses under the tree/shrub >3m			7		
Presence of mostly intact litter mats under canopy of tree/shru >50% of tree canopy area has intertwined litter or shrub cove		0	7	0	
	Total Sco	re (Max 10 -	weighted	by 2.5)	
Physical Disturbance Indicators		Dominant >50%	Minor <50%	None - 0	Score
Prevalence of large patches of bare soil (> 5m x 5m) that shoof productive capacity (ie ephemeral plant litter, stems etc.)	ws no signs		9		
Evidence of animal tracks, vehicle tracks or other physical dis the natural land surface	sturbance to	J			
Destabilised creek channel banks (if present), characterised by vegetation or stabilizing roots, deflation and bank erosion. Inso on both sides of channels.			7	ū	
	Total Sco	re (Max 18 -	weighted	by 3)	
	-				
Vegetation Stratum (tick the <u>Present</u> box for all stratum that Absent box of any stratum that should be present but have be			Present	Absent	Note; don't tick either box if stratum was like
Trees/shrubs >3m					never present -
Shrubs 1- 3m			□ □		e.g. Trees
Low shrubs <1m & hummock grasses			V		stratum in a low shrubland
Perennial tussock grasses with basal areas >30mm				V	Siliubianu 6
	Total Sco	re (Max 16 -	weighted	by 4)	0.
Introduced Plant Species			-	Select	Score
Declared species present?			-	No	Score
			-		
Introduced species dominate (>50% of vegetation cover) Moderate invasion of introduced species (5 to 50% of the veg	otation cover	-1		<u> </u>	
Very sparse to nil introduced species (5 to 56% of the veg		1			
very sparse to thi introduced species present (50 % or vegetal		re (Max 10 -	weighted	Print,	7.
Vegetation Utilisation Score					
	Total Sco	re (Max 26)			10.2
	7 27 22				
Vegetation Condition Score Calculation					1 24 77
VEGETATION CONDITION SCORE					34.72
Vegetation Utilisation Score	M	ledium		Hìgh	
Introduced Plant Species Score					
Vegetation Stratum Score					
Physical Disturbance Indicator					
Physical Disturbance Indicator Biotic Disturbance Indicator					

Conservation Significance Score				
Is the vegetation association considered a Threatened Ecological community or Ecosystem?				Tick if Yes
State (Provisional List of Threatened Ecosystems of SA) Rare community (0.1 pt)				
State (Provisional List of Threatened Ecosystems of SA) Vulnerable community (0.2 pts)				
State (Provisional List of Threatened Ecosystems of SA) Endangered community (0.3 pts)				
Nationally (EPBC Act) Vulnerable community (0.3				
Contains a Nationally (EPBC Act) Endangered or		naered community (0.4)	pts)	
Note; all sites will score a minimum Conservation Signific		<u> </u>	Score	1
Number of Threatened Plant Species recorded	for within the S	Site_		Number
*If a species has both a State (NP&W Act) and Nat	tional (EPBC Ac	t) rating, it's only recorde	ed for its National ratin	g.
State Rare species recorded (1 pt each)		, 5, ,		0
State Vulnerable species recorded (2.5 pt each)				0
State Endangered recorded (5 pts each)				0
Nationally Vulnerable species recorded (10 pts ea	ch)			0
Nationally Endangered or Critically endangered		d (20 pts each)		0
0 = 0 pts; <2 = 0.04 pts; 2 - <5			16 pts; 20 or > = 0.2 pts	0
			Score	0
			•	
Potential habitat for Threatened Animal Species				Number
*If a species has both a State (NP&W Act) and Nat		t) rating, it's only recorde	ed for its National ratin	g.
State Rare species observed or locally recorded (1				2
State Vulnerable species observed or locally recor	· ·	•		0
State Endangered species observed or locally rec	, .	•		0
Nationally Vulnerable species observed or locally	recorded (10 pts	s each)		2
Nationally Endangered or Critically endangered	species observe	ed or locally recorded (20	pts each)	0
0 = 0 pts; <2 = 0.02 pts; 2 - <	5 = 0.04 pts; 5 - <	10 = 0.06 pts; 10 - <20 = 0.	08pts; 20 or > = 0.1 pts	22
			Score	0.1
CONSERVATION SIGNIFICANCE SCORE				1.1
Total Scores for the Site		Vegetation Condition	•	ext x
		Conservation Signific		
LANDSCAPE CONTEXT SCORE	1.16	UNIT BIODIVERSIT	Y SCORE	44.30
VEGETATION CONDITION SCORE	34.72	Total Biodiversity S	core	
CONSERVATION SIGNIFICANCE SCORE	1.10	(Biodiversity Score	x hectares)	3.99
Photo Point and Vegetation Survey Location			Direction of the Pho	oto
			GPS Reference	
			Datum	
			Zone (52, 53 or 54)	
			Easting (6 digits)	
			Northing (7 digits)	
			Description	
			Description	
Insert Photopoint	Photo			
				l
			1	

SEB Offset Calculations (when assessing a proposed clearance site)

SEB Points Required		
Loss Factor	1.0	
Loadings for clearance of protected areas		
Reductions for rehabilitation of impact site		
SEB Uplift Factor	1.10	
Total SEB Points Required	4.39	

SEB - Payment	
SEB points of gain/ha Factor	7.5
Approximate SEB hectares required	0.59
Management Cost (\$/ha)	\$24,764
Economies of Scale Factor	0.11
Mean Annual rainfall for the site (mm)	186
Payment into the Fund (GST exclusive)	\$296.57
Administration fee (GST inclusive)	\$16.31
Total Payment Required	\$312.88

(Version - 1 Sept 2024)

Block (name)	Strzelecki Track
Landscapes Region	South Australian Arid Lands
IBRA Sub Region	Murnpeowie
Property Name	DIT

ASSESSOR(S)	LJ
DATE OF ASSESSMENT	03-06 Dec 2024

Map of the Block (Including the Sites)

Insert Map

Landscape Context Scores

Number of Landform Features within Block	5
1 = 0.01pts, 2 = 0.03pts, >2 = 0.06pts	0.06

Size of the Block		
<10ha = 0; 10 - <100ha = 0.01pts; 100 - <500ha = 0.02pts;		
500 - <1000ha = 0.03pts; 1000 - <2000ha = 0.04pts;		
2000 - 5000 = 0.05pts; >5000pts = 0.06pts	0	

% native veg. protected in IBRA Sub region	1
0-2% = 0.05 pts; >2-5% = 0.04 pts; >5-10% = 0.03 pts;	
>10-25% = 0.02 pt; >25% = 0.01 pt	0.05

Wetland or Riparian Habitat present	
Does the block contain a wetland feature (Yes/No)	
Permanent or semi permanent = 0.08 pt	No
Contains water for at least 6 months of the year	
Occasionally contains water = 0.05 pts	Yes
Contains water approximately once every 5 years	
Very occasionally contains water = 0.02 pts	Yes
Contains water approximately once every 20 years	
Score	0.05

1.16

Plant Species	Common name	Palatability	Utilisation enter the tally from datasheet for each category. If a proportion (>50%, <50% or zero) was recorded in the field, enter the code for each proportion (>50% is 2, <50% is 1, and 0 is 0)			Age Class (M/Y/A)	Site Utilisation Score mean
			Intact	Modified	Over utilised		tilisatio
			number (tally)	number (tally)	number (tally)		Site U
Acacia victoriae ssp.	Elegant Wattle	P	2			Mixed	19.50
Maireana astrotricha	Low Bluebush	Р	2			Mixed	
Rhagodia spinescens	Spiny Saltbush	P	2		2	Mixed	
Santalum lanceolatum	Plumbush	HP	2			Mixed	
Acacia tetragonophylla	Dead Finish	P	2			Mixed	
Acacia salicina	Willow Wattle	U	2			Mixed	
Acada salidha	Willow Wattle	-	,	1		IVIIXEG	
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Threatened Fauna - Recorded or Ob	served	Threat Specie			
Species	Common Name	EPBC	SA	Past Record	Observed
Amytornis modestus	Thick-billed Grasswren	VU		Yes	
Aphelocephala leucopsis leucopsis	Southern Whiteface	VU		Yes	
Falco subniger	Black Falcon		R	Yes	
Neophema elegans elegans	Elegant Parrot		R	Yes	
notes and an arrangement of the second					
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		13			
Threatened Flora Species - Recorde	d or Observed	Threat Specie			
Species	Common Name	EPBC	SA	Past Record	Observed
		- 1			
	1				
		1			
	1				
	4	#1			
				*	

				Introduced
pecies	Common Name	Past Record	Observed	Species
Passer domesticus domesticus	House Sparrow	Yes		*
Bos taurus	Cattle (European Cattle)	Yes		*
Canis lupus	Feral Dog, Dingo	Yes		*
Canis lupus dingo	Dingo	Yes		*
Canis sp.		Yes		*
Capra hircus	Goat (Feral Goat)	Yes		*
Equus asinus	Donkey (Feral Donkey)	Yes		*
Equus sp.		Yes		*
Felis catus	Domestic Cat (Feral Cat)	Yes		*
Mus musculus	House Mouse	Yes		*
Oryctolagus cuniculus	Rabbit (European Rabbit)	Yes		*
Ovis aries	Sheep (Feral Sheep)	Yes		*
Vulpes vulpes	Fox (Red Fox)	Yes		*
	-			
	+			1
				-
ntroduced Flora Species - Rec	corded or Observed			
pecies	Common Name	Past Record	Observed	
Carrichtera annua	Ward's Weed		Yes	*
Tribulus terrestris	Caltrop		Yes	*
Cucumis myriocarpus ssp. myriocarp	u, Paddy Melon		Yes	*

Vegetation Condition Scores					
TE (name): VA4		SIZE OF	SITE (Ha)	2.23	
VEGETATION ASSOCIATION DESCRIPTION	GETATION ASSOCIATION DESCRIPTION Acacia victoriae open sh		CARL STREET, S		
LANDSCAPE TYPE	Drainage I	ines / floodo	uts		
SURFACE CHARACTER Dominant	Cracking		Minor	Stony	
Biotic Disturbance Indicators Sites with trees and large shrubs only (select one tickbox for e	each row)	Dominant >50%	Minor <50%	None - 0	Score
Presence of palatable shrubs or perennial grasses under the tree/shrub >3m			7		
Presence of mostly intact litter mats under canopy of tree/shruk >50% of tree canopy area has intertwined litter or shrub cover			1		
	Total Sco	re (Max 10 -	weighted	by 2.5)	
Physical Disturbance Indicators		Dominant >50%	Minor <50%	None - 0	Score
Prevalence of large patches of bare soil (> 5m x 5m) that sho of productive capacity (ie ephemeral plant litter, stems etc.)	ws no signs				
Evidence of animal tracks, vehicle tracks or other physical dis the natural land surface	turbance to				
Destabilised creek channel banks (if present), characterised by vegetation or stabilizing roots, deflation and bank erosion. Inso on both sides of channels.		0	7	ū	
	Total Sco	re (Max 18 -	weighted	by 3)	
Vegetation Stratum (tick the <u>Present</u> box for all stratum that Absent box of any stratum that should be present but have be			Present	Absent	Note; don't tick either box if stratum was like
Trees/shrubs >3m			7		never present -
Shrubs 1- 3m			N .		e.g. Trees
Low shrubs <1m & hummock grasses			V		stratum in a low shrubland
Perennial tussock grasses with basal areas >30mm	Total Sco	re (Max 16 -		☑ I by 4)	10
Introduced Plant Species				Select	Score
Declared species present?				Yes	
ntroduced species dominate (>50% of vegetation cover)					
Moderate invasion of introduced species (5 to 50% of the veg	etation cover)		V	T.
Very sparse to nil introduced species present (<5% of vegeta	tion cover)				
	Total Sco	re (Max 10 -	weighted	l by 2.5)	2
Vegetation Utilisation Score	Total Sco	re (Max 26)			19.5
					1
Vegetation Condition Score Calculation					
VEGETATION CONDITION SCORE					43.00
Low Vegetation Utilisation Score	M	edium		High	
Introduced Plant Species Score					
Vegetation Stratum Score					
Physical Disturbance Indicator					
Biotic Disturbance Indicator					

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Conservation Significance Sc	ore			
Is the vegetation association considered a Threatene	d Ecological co	mmunity or Ecosystem?		Tick if Yes
State (Provisional List of Threatened Ecosystems of				
State (Provisional List of Threatened Ecosystems of SA) Vulnerable community (0.2 pts)				
State (Provisional List of Threatened Ecosystems of SA) Endangered community (0.3 pts)				
Nationally (EPBC Act) Vulnerable community (0.35 pts)				
Contains a Nationally (EPBC Act) Endangered or		ngered community (0.4	pts)	
Note; all sites will score a minimum Conservation Signific		, , , , , , , , , , , , , , , , , , ,	Score	1
Number of Threatened Plant Species recorded	for within the	Site_		Number
*If a species has both a State (NP&W Act) and Nat	ional (EPBC Ad	t) rating, it's only recorde	ed for its National ratin	g.
State Rare species recorded (1 pt each)		, ,		0
State Vulnerable species recorded (2.5 pt each)				0
State Endangered recorded (5 pts each)				0
Nationally Vulnerable species recorded (10 pts ea	ch)			0
Nationally Endangered or Critically endangered	species recorde	ed (20 pts each)		0
0 = 0 pts; <2 = 0.04 pts; 2 - <5			16 pts; 20 or > = 0.2 pts	0
			Score	0
Potential habitat for Threatened Animal Species				Number
*If a species has both a State (NP&W Act) and Nat State Rare species observed or locally recorded (1		रा) rating, it's only recorde	ea for its iNational ratin I	g.
· · · · · · · · · · · · · · · · · · ·	. ,	L\		
State Vulnerable species observed or locally recorn State Endangered species observed or locally recorn	· ·	•		0
Nationally Vulnerable species observed or locally recommendation of the species observed or locally recommendations.		•		0
		· · · · · · · · · · · · · · · · · · ·	\ nto ocob\	2
Nationally Endangered or Critically endangered			· · · · · · · · · · · · · · · · · · ·	0
0 = 0 pts; <2 = 0.02 pts; 2 - <	5 = 0.04 pts; 5 - <	<10 = 0.06 pts; 10 - <20 = 0.		22
			Score	0.1
CONSERVATION SIGNIFICANCE SCORE				1.1
CONSERVATION SIGNII ISANSE SCORE				
Total Scores for the Site		Vegetation Condition	x Landscape Conte	ext x
Total Ocoles for the Oile		Conservation Signific	•	
LANDSCAPE CONTEXT SCORE	1.16	UNIT BIODIVERSIT		54.87
VEGETATION CONDITION SCORE	43.00	Total Biodiversity S		34.07
CONSERVATION SIGNIFICANCE SCORE	1.10	(Biodiversity Score		122.36
CONSERVATION SIGNII ICANCE SCORE	1.10	(Blodiversity Score	e x nectares)	122.36
Photo Point and Vegetation Survey Location			Direction of the Pho	oto
			GPS Reference	
			Datum	
			Zone (52, 53 or 54)	
			Easting (6 digits)	
			Northing (7 digits)	
			Description	
Insert Photopoint	Photo			
				I

SEB Offset Calculations (when assessing a proposed clearance site)

SEB Points Required		
Loss Factor	1.0	
Loadings for clearance of protected areas		
Reductions for rehabilitation of impact site		
SEB Uplift Factor	1.10	
Total SEB Points Required	134.60	
SEB - Payment		
SEB points of gain/ha Factor	7.5	
Approximate SEB hectares required	17.95	
Management Cost (\$/ha)	\$24,764	
Economies of Scale Factor	0.065	
Mean Annual rainfall for the site (mm)	186	
Payment into the Fund (GST exclusive)	\$5,373.17	
Administration fee (GST inclusive)	\$295.52	
Total Payment Required	\$5,668.69	

(Version - 1 Sept 2024)

Block (name)	Strzelecki Track
Landscapes Region	South Australian Arid Lands
IBRA Sub Region	Murnpeowie
Property Name	DIT

ASSESSOR(S)	LJ
DATE OF ASSESSMENT	03-06 Dec 2024

Map of the Block (Including the Sites)

Insert Map

Landscape Context Scores

Number of Landform Features within Block	5
1 = 0.01pts, 2 = 0.03pts, >2 = 0.06pts	0.06

Size of the Block		
<10ha = 0; 10 - <100ha = 0.01pts; 100 - <500ha = 0.02pts;		
500 - <1000ha = 0.03pts; 1000 - <2000ha = 0.04pts;		
2000 - 5000 = 0.05pts; >5000pts = 0.06pts		

% native veg. protected in IBRA Sub region	1
0-2% = 0.05 pts; >2-5% = 0.04 pts; >5-10% = 0.03 pts;	
>10-25% = 0.02 pt; >25% = 0.01 pt	0.05

Wetland or Riparian Habitat present	
Does the block contain a wetland feature (Yes/No)	
Permanent or semi permanent = 0.08 pt	No
Contains water for at least 6 months of the year	
Occasionally contains water = 0.05 pts	Yes
Contains water approximately once every 5 years	
Very occasionally contains water = 0.02 pts	Yes
Contains water approximately once every 20 years	
Score	0.05

1.16

Plant Species	Common name	Palatability	Utilisation enter the tally from datasheet for each category. If a proportion (>50%, <50% or zero) was recorded in the field, enter the code for each proportion (>50% is 2, <50% is 1, and 0 is 0)			Age Class (M/Y/A)	Site Utilisation Score mean
		ď	Intact	Modified	Over utilised		Itilisatio
			number (tally)	number (tally)	number (tally)		Site L
Eucalyptus camaldulensis ssp.	River Red Gum	U	2			Mixed	12.08
Acacia salicina	Willow Wattle	U	2			Mixed	
Melaleuca glomerata	Inland Paper-bark	U	2		1	Mixed	
Acacia victoriae ssp.	Elegant Wattle	Р	2			Mixed	
Lycium australe	Australian Boxthorn	U	2			Adult	
	Lemon-grass	U	2		-	Adult	
Cymbopogon ambiguus	Ecinon Brass					Audit	
	-						
						-	
	-						
		- 0,70		A			
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Threatened Fauna - Recorded or Observed		Threat Specie			
Species	Common Name	EPBC	SA	Past Record	Observed
Amytornis modestus	Thick-billed Grasswren	VU		Yes	
Aphelocephala leucopsis leucopsis	Southern Whiteface	VU		Yes	
Falco subniger	Black Falcon		R	Yes	
Neophema elegans elegans	Elegant Parrot		R	Yes	
notes and an arrangement of the second					
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		19			
Threatened Flora Species - Recorde	d or Observed	Threat Specie			
Species	Common Name	EPBC	SA	Past Record	Observed
		- 1			
	1				
		1			
	1				
	4	#1			
				*	

pecies	Common Name	Past Record	Observed	Introduced
Passer domesticus domesticus	House Sparrow	Yes	Observeu	Species *
Bos taurus	Cattle (European Cattle)	Yes		*
Canis lupus	Feral Dog, Dingo	Yes		*
Canis lupus dingo	Dingo	Yes		*
Canis sp.	2.00	Yes		*
Capra hircus	Goat (Feral Goat)	Yes		*
Equus asinus	Donkey (Feral Donkey)	Yes		*
Equus sp.		Yes		*
Felis catus	Domestic Cat (Feral Cat)	Yes		*
Mus musculus	House Mouse	Yes		*
Oryctolagus cuniculus	Rabbit (European Rabbit)	Yes		*
Ovis aries	Sheep (Feral Sheep)	Yes		*
Vulpes vulpes	Fox (Red Fox)	Yes		*
varped varped	The state of the s			
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				-
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3-	+			
			4	
			-	
				-
ntroduced Flora Species - Reco	rded or Observed			
wastan	Common Name	Past Record	Observed	
pecies	A-A	Past Record		
Argemone ochroleuca ssp. ochroleuca			Yes	*
Cynodon dactylon var. dactylon	Couch		Yes	*
	2			
			_	

Vegetation Condition Scores						
TE (name): VA5			SIZE OF SITE (Ha) 0.09			
EGETATION ASSOCIATION DESCRIPTION Eucalyptus camaldu		s camalduler	ensis open forest			
LANDSCAPE TYPE	Drainage I	lines / floodo	uts			
SURFACE CHARACTER Dominant	Stony		Minor			
Biotic Disturbance Indicators Sites with trees and large shrubs only (select one tickbox for e	each row)	Dominant >50%	Minor <50%	None - 0	Score	
Presence of palatable shrubs or perennial grasses under the tree/shrub >3m			y			
Presence of mostly intact litter mats under canopy of tree/shru (>50% of tree canopy area has intertwined litter or shrub cove						
	Total Sco	re (Max 10 -	weighted	by 2.5)		
Physical Disturbance Indicators		Dominant >50%	Minor <50%	None - 0	Score	
Prevalence of large patches of bare soil (> 5m x 5m) that shoot productive capacity (ie ephemeral plant litter, stems etc.)	ws no signs	2				
Evidence of animal tracks, vehicle tracks or other physical dis the natural land surface	turbance to		V			
Destabilised creek channel banks (if present), characterised by vegetation or stabilizing roots, deflation and bank erosion. Inso on both sides of channels.		Ø				
	Total Sco	re (Max 18 -	Max 18 - weighted by 3)			
Vegetation Stratum (tick the <u>Present</u> box for all stratum that Absent box of any stratum that should be present but have be			Present	Absent	Note; don't tick either box if stratum was like	
Trees/shrubs >3m	s >3m					
Shrubs 1- 3m		· ·		e.g. Trees		
Low shrubs <1m & hummock grasses				V	stratum in a low shrubland	
Perennial tussock grasses with basal areas >30mm	Total Sco	re (Max 16 -	weighted	by 4)	10	
Introduced Plant Species		1100		Select	Score	
Declared species present?				No	Score	
			_		-	
ntroduced species dominate (>50% of vegetation cover) Moderate invasion of introduced species (5 to 50% of the veg	station sover	-1		<u> </u>		
Very sparse to nil introduced species present (<5% of vegetat		/				
very sparse to the introduced species present (10% of vegetal		re (Max 10 -	weighted	-	7	
Vegetation Utilisation Score						
	Total Sco	re (Max 26)			12.0	
Vegetation Condition Score Calculation						
VEGETATION CONDITION SCORE					37.58	
	2.	La altresa		Libral.		
Vegetation Utilisation Score	IV	ledium		High		
Introduced Plant Species Score						
Vegetation Stratum Score		- 1				
Physical Disturbance Indicator						
7.5.6.1.2.1.3.1.2.1.1.2.1.2.1.2.1.2.1.2.1.2.1						
Biotic Disturbance Indicator						

Conservation Significance Score					
Is the vegetation association considered a Threatened Ecological community or Ecosystem?				Tick if Yes	
State (Provisional List of Threatened Ecosystems of SA) Rare community (0.1 pt)					
State (Provisional List of Threatened Ecosystems of	of SA) Vulner	able	e community (0.2 pts)		
State (Provisional List of Threatened Ecosystems of	•		•		
Nationally (EPBC Act) Vulnerable community (0.3			, , ,		
Contains a Nationally (EPBC Act) Endangered or		dan	gered community (0.4)	ots)	
Note; all sites will score a minimum Conservation Signific			<u> </u>	Score	1
Number of Threatened Plant Species recorded	for within the	Si	te_		Number
*If a species has both a State (NP&W Act) and Nat	tional (EPBC A	4 <i>ct</i>)	rating, it's only recorde	d for its National ratin	g.
State Rare species recorded (1 pt each)	,		3, ,		0
State Vulnerable species recorded (2.5 pt each)					0
State Endangered recorded (5 pts each)					0
Nationally Vulnerable species recorded (10 pts ea	ch)				0
Nationally Endangered or Critically endangered		ded	(20 pts each)		0
0 = 0 pts; <2 = 0.04 pts; 2 - <				6 pts; 20 or > = 0.2 pts	0
				Score	0
				•	
Potential habitat for Threatened Animal Species					Number
*If a species has both a State (NP&W Act) and Nat		4ct)	rating, it's only recorde	d for its National ratin	g.
State Rare species observed or locally recorded (1					2
State Vulnerable species observed or locally recor		•			0
State Endangered species observed or locally rec	, ,		•		0
Nationally Vulnerable species observed or locally	recorded (10 p	ots (each)		2
Nationally Endangered or Critically endangered	species obser	ved	or locally recorded (20	pts each)	0
0 = 0 pts; <2 = 0.02 pts; 2 - <	5 = 0.04 pts; 5 = 0.04 pts	- <1	0 = 0.06 pts; $10 - <20 = 0$.	08pts; 20 or > = 0.1 pts	22
Score				0.1	
CONSERVATION SIGNIFICANCE SCORE					1.1
Total Scores for the Site			Vegetation Condition	•	ext x
			Conservation Signific		
LANDSCAPE CONTEXT SCORE	1.16		UNIT BIODIVERSIT	Y SCORE	47.95
VEGETATION CONDITION SCORE	37.58		Total Biodiversity S	core	
CONSERVATION SIGNIFICANCE SCORE	1.10		(Biodiversity Score	x hectares)	4.32
Photo Point and Vegetation Survey Location				Direction of the Pho	oto
				ODO Deference	
				GPS Reference Datum	
				Zone (52, 53 or 54) Easting (6 digits)	
				Northing (7 digits)	
				Description	
				Description	
Insert Photopoint	Photo				
·					
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186

\$320.89

\$17.65

\$338.54

SEB Offset Calculations (when assessing a proposed clearance site)

1.0
1.10
4.75
7.5
0.63
\$24,764
0.11

Mean Annual rainfall for the site (mm)

Administration fee (GST inclusive)

Total Payment Required

Payment into the Fund (GST exclusive)

(Version - 1 Sept 2024)

Block (name)	Strzelecki Track
Landscapes Region	South Australian Arid Lands
IBRA Sub Region	Murnpeowie
Property Name	DIT

ASSESSOR(S)	LJ
DATE OF ASSESSMENT	03-06 Dec 2024

Map of the Block (Including the Sites)

Insert Map

Landscape Context Scores

Number of Landform Features within Block	5
1 = 0.01pts, 2 = 0.03pts, >2 = 0.06pts	0.06

Size of the Block		
<10ha = 0; 10 - <100ha = 0.01pts; 100 - <500ha = 0.02pts;		
500 - <1000ha = 0.03pts; 1000 - <2000ha = 0.04pts;		
2000 - 5000 = 0.05pts; >5000pts = 0.06pts	0	

% native veg. protected in IBRA Sub region	1
0-2% = 0.05 pts; >2-5% = 0.04 pts; >5-10% = 0.03 pts;	
>10-25% = 0.02 pt; >25% = 0.01 pt	0.05

Wetland or Riparian Habitat present	
Does the block contain a wetland feature (Yes/No)	
Permanent or semi permanent = 0.08 pt	No
Contains water for at least 6 months of the year	
Occasionally contains water = 0.05 pts	Yes
Contains water approximately once every 5 years	
Very occasionally contains water = 0.02 pts	Yes
Contains water approximately once every 20 years	
Score	0.05

1.16

Plant Species	Common name	Palatability	Utilisation enter the tally from datasheet for each category. If a proportion (>50%, <50% or zero) was recorded in the field, enter the code for each proportion (>50% is 2, <50% is 1, and 0 is 0)			Age Class (M/Y/A)	Site Utilisation Score mean
		8	Intact	Modified	Over utilised		Itilisatio
			number (tally)	number (tally)	number (tally)		ite L
Maireana astrotricha	Low Bluebush	P	2			Mixed	16.13
Acacia victoriae ssp.	Elegant Wattle	Р	2			Adult	
Maireana pyramidata	Black Bluebush	Р	2			Mixed	
Arabidella glaucescens		Р	2			Young	
Arabidella giadcescells	-					Toung	
	4				-		
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Threatened Fauna - Recorded or Observed		Threatened Species			
Species	Common Name	EPBC	SA	Past Record	Observed
Amytornis modestus	Thick-billed Grasswren	VU		Yes	
Aphelocephala leucopsis leucopsis	Southern Whiteface	VU		Yes	
Falco subniger	Black Falcon		R	Yes	
Neophema elegans elegans	Elegant Parrot		R	Yes	
notes and an arrangement of the second					
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		19			
Threatened Flora Species - Recorde	d or Observed	Threat Specie			
Species	Common Name	EPBC	SA	Past Record	Observed
		- 1			
	1				
		1			
	1				
	4	#1			
				*	

Species				Introduced
	Common Name	Past Record Yes	Observed	Species *
Passer domesticus domesticus	House Sparrow	Yes		*
Bos taurus	Cattle (European Cattle) Feral Dog, Dingo	Yes		*
Canis lupus	Dingo	Yes		*
Canis lupus dingo	Dirigo	Yes		*
Canis sp.	Goat (Feral Goat)	Yes		*
Capra hircus	Donkey (Feral Donkey)	Yes		*
Equus asinus	Donkey (Feral Donkey)	Yes		*
Equus sp. Felis catus	Domestic Cat (Feral Cat)	Yes		*
Mus musculus	House Mouse	Yes		*
Oryctolagus cuniculus	Rabbit (European Rabbit)	Yes		*
Ovis aries	Sheep (Feral Sheep)	Yes		*
	Fox (Red Fox)	Yes		*
Vulpes vulpes	Tox (Red Tox)	163		
	+			-
	+			1
	4	_		
	4			+
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	-			-
	4			-
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	-			-
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and the delay of the bar				
Introduced Flora Species - Re	ecorded or Observed			
Species	Common Name	Past Record	Observed	
	-			
	4			-
	-			-
	-			
	+			-
	10			
	-			
	4			
	-			
	-			
	-			
	4			
	3			
	A-			
	-			4
	-			
	-			

Vegetation Condition Scores						
SITE (name):	TE (name): VA6		SIZE OF SITE (Ha) 0.56			
VEGETATION ASSOCIATION DESCRIPTION		astrotricha o		and		
LANDSCAPE TYPE	Drainage I	lines / floodo	uts			
SURFACE CHARACTER Dominant	Cracking		Minor			
Biotic Disturbance Indicators Sites with trees and large shrubs only (select one tickbox for e	each row)	Dominant >50%	Minor <50%	None - 0	Score	
Presence of palatable shrubs or perennial grasses under the tree/shrub >3m			O	П		
Presence of mostly intact litter mats under canopy of tree/shru (>50% of tree canopy area has intertwined litter or shrub cover						
	Total Sco	re (Max 10 -	weighted	l by 2.5)		
Physical Disturbance Indicators		Dominant >50%	Minor <50%	None - 0	Score	
Prevalence of large patches of bare soil (> 5m x 5m) that shoof productive capacity (ie ephemeral plant litter, stems etc.)	ws no signs		•			
Evidence of animal tracks, vehicle tracks or other physical dis the natural land surface	turbance to		V			
Destabilised creek channel banks (if present), characterised by vegetation or stabilizing roots, deflation and bank erosion. Inso on both sides of channels.		0				
	Total Sco	re (Max 18 -	weighted	by 3)		
	7		107			
Vegetation Stratum (tick the <u>Present</u> box for all stratum that Absent box of any stratum that should be present but have be			Present	Absent	Note; don't tick either box if stratum was likel	
Trees/shrubs >3m					never present -	
Shrubs 1- 3m			D.		e.g. Trees	
Low shrubs <1m & hummock grasses			Image: section of the content of the		stratum in a low shrubland	
Perennial tussock grasses with basal areas >30mm	Total Sco	re (Max 16 -		☑ I by 4)	6.	
Introduced Plant Species				Select	Score	
Declared species present?				No		
Introduced species dominate (>50% of vegetation cover)						
Moderate invasion of introduced species (5 to 50% of the veg	etation cover)				
Very sparse to nil introduced species present (<5% of vegetat		,				
	Total Sco	re (Max 10 -	weighted	by 2.5)	1	
Vegetation Utilisation Score	Total Sco	re (Max 26)			16.1	
	Total oco	ic (max 20)			10.1	
Vegetation Condition Score Calculation					4 5 5	
VEGETATION CONDITION SCORE					46.13	
Low Vegetation Utilisation Score	M	ledium		High		
Introduced Plant Species Score				1		
Vegetation Stratum Score						
Physical Disturbance Indicator						
Biotic Disturbance Indicator						

ı

Conservation Significance Score					
Is the vegetation association considered a Threatened Ecological community or Ecosystem?					Tick if Yes
State (Provisional List of Threatened Ecosystems of SA) Rare community (0.1 pt)					
State (Provisional List of Threatened Ecosystems of SA) Vulnerable community (0.2 pts)					
State (Provisional List of Threatened Ecosystems of	•		•		
Nationally (EPBC Act) Vulnerable community (0.3					
Contains a Nationally (EPBC Act) Endangered or		dand	ered community (0.4 r	ots)	
Note; all sites will score a minimum Conservation Signific			, , ,	Score	1
Number of Threatened Plant Species recorded	for within the	Site	<u>e</u> _		Number
*If a species has both a State (NP&W Act) and Nat	tional (EPBC A	4 <i>ct</i>) i	rating, it's only recorde	d for its National ratin	g.
State Rare species recorded (1 pt each)			<u> </u>		0
State Vulnerable species recorded (2.5 pt each)					0
State Endangered recorded (5 pts each)					0
Nationally Vulnerable species recorded (10 pts ea	ch)				0
Nationally Endangered or Critically endangered		ded ((20 pts each)		0
0 = 0 pts; <2 = 0.04 pts; 2 - <5				6 pts; 20 or > = 0.2 pts	0
				Score	0
				•	
Potential habitat for Threatened Animal Species					Number
*If a species has both a State (NP&W Act) and Nat		4ct) i	rating, it's only recorde	d for its National ratin	g.
State Rare species observed or locally recorded (1					2
State Vulnerable species observed or locally recor	· ·	,			0
State Endangered species observed or locally recorded (5 pt each)					0
Nationally Vulnerable species observed or locally	recorded (10 p	ots e	ach)		2
Nationally Endangered or Critically endangered species observed or locally recorded (20 pts each)				0	
0 = 0 pts; <2 = 0.02 pts; 2 - <	5 = 0.04 pts; 5 -	- <10	= 0.06 pts; 10 - <20 = 0.0	08pts; 20 or > = 0.1 pts	22
				Score	0.1
CONSERVATION SIGNIFICANCE SCORE					1.1
Total Scores for the Site			Vegetation Condition		ext x
			Conservation Signific		
LANDSCAPE CONTEXT SCORE	1.16	U	UNIT BIODIVERSITY	/ SCORE	58.86
VEGETATION CONDITION SCORE	46.13	7	Total Biodiversity S	core	
CONSERVATION SIGNIFICANCE SCORE	1.10		(Biodiversity Score	x hectares)	32.96
Photo Point and Vegetation Survey Location				Direction of the Pho	oto
				GPS Reference	
				Datum	
				Zone (52, 53 or 54)	
				Easting (6 digits)	
				Northing (7 digits)	
				Description	
				Description	
Insert Photopoint	Photo				

SEB Points Required		
Loss Factor	1.0	
Loadings for clearance of protected areas		
Reductions for rehabilitation of impact site		
SEB Uplift Factor	1.10	
Total SEB Points Required	36.26	
SEB - Payment		
SEB points of gain/ha Factor	7.5	
Approximate SEB hectares required	4.83	
Management Cost (\$/ha)	\$24,764	
Economies of Scale Factor	0.11	
Mean Annual rainfall for the site (mm)	186	
Payment into the Fund (GST exclusive)	\$2,449.59	
Administration fee (GST inclusive)	\$134.73	
Total Payment Required	\$2,584.32	

(Version - 1 Sept 2024)

Block (name)	Strzelecki Track
Landscapes Region	South Australian Arid Lands
IBRA Sub Region	Murnpeowie
Property Name	DIT

ASSESSOR(S)	LJ
DATE OF ASSESSMENT	03-06 Dec 2024

Map of the Block (Including the Sites)

Insert Map

Landscape Context Scores

Number of Landform Features within Block	5
1 = 0.01pts, 2 = 0.03pts, >2 = 0.06pts	0.06

Size of the Block		
<10ha = 0; 10 - <100ha = 0.01pts; 100 - <500ha = 0.02pts;		
500 - <1000ha = 0.03pts; 1000 - <2000ha = 0.04pts;		
2000 - 5000 = 0.05pts; >5000pts = 0.06pts	0	

% native veg. protected in IBRA Sub region	1
0-2% = 0.05 pts; >2-5% = 0.04 pts; >5-10% = 0.03 pts;	
>10-25% = 0.02 pt; >25% = 0.01 pt	0.05

Wetland or Riparian Habitat present	
Does the block contain a wetland feature (Yes/No)	
Permanent or semi permanent = 0.08 pt	No
Contains water for at least 6 months of the year	
Occasionally contains water = 0.05 pts	Yes
Contains water approximately once every 5 years	
Very occasionally contains water = 0.02 pts	Yes
Contains water approximately once every 20 years	
Score	0.05

1.16

Plant Species	Common name	Palatability	Utilisation enter the tally from datasheet for each category. If a proportion (>50%, <50% or zero) was recorded in the field, enter the code for each proportion (>50% is 2, <50% is 1, and 0 is 0)			Age Class (M/Y/A)	Site Utilisation Score mean
		ä	Intact Mo	Modified	Over utilised	(, .,	tilisation
			number (tally)	number (tally)	number (tally)		Site U
Maireana pyramidata	Black Bluebush	P	2			Mixed	17.58
Atriplex vesicaria	Bladder Saltbush	HP	2			Mixed	
Astrebla pectinata	Barley Mitchell-grass	P	2		1	Adult	
Maireana astrotricha	Low Bluebush	Р	2			Mixed	
Acacia victoriae ssp.	Elegant Wattle	P	2			Adult	
Maireana coronata	Crown Fissure-plant	P	2			Mixed	
Maireana coronata	Crown rissure-plant		-			Wilked	
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Threatened Fauna - Recorded or Ob	served	Threatened Species			
Species	Common Name	EPBC	SA	Past Record	Observed
Amytornis modestus	Thick-billed Grasswren	VU		Yes	
Aphelocephala leucopsis leucopsis	Southern Whiteface	VU		Yes	
Falco subniger	Black Falcon		R	Yes	
Neophema elegans elegans	Elegant Parrot		R	Yes	
notes and an arrangement of the second					
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		13			
Threatened Flora Species - Recorde	d or Observed	Threat Specie			
Species	Common Name	EPBC	SA	Past Record	Observed
		- 1			
	1				
		1			
	1				
	4	#1			
				*	

Species				Introduced
	Common Name	Past Record Yes	Observed	Species *
Passer domesticus domesticus	House Sparrow	Yes		*
Bos taurus	Cattle (European Cattle) Feral Dog, Dingo	Yes		*
Canis lupus	Dingo	Yes		*
Canis lupus dingo	Dirigo	Yes		*
Canis sp.	Goat (Feral Goat)	Yes		*
Capra hircus	Donkey (Feral Donkey)	Yes		*
Equus asinus	Donkey (Feral Donkey)	Yes		*
Equus sp. Felis catus	Domestic Cat (Feral Cat)	Yes		*
Mus musculus	House Mouse	Yes		*
Oryctolagus cuniculus	Rabbit (European Rabbit)	Yes		*
Ovis aries	Sheep (Feral Sheep)	Yes		*
	Fox (Red Fox)	Yes		*
Vulpes vulpes	Tox (Red Tox)	163		
	+			-
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and the delay of the bar				
Introduced Flora Species - Re	ecorded or Observed			
Species	Common Name	Past Record	Observed	
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Vegetation Condition Scores						
SITE (name):	VA7		SIZE OF	SITE (Ha)	2.8	
VEGETATION ASSOCIATION DESCRIPTION			a +/- Atriplex vesicaria open shrubland			
LANDSCAPE TYPE	Ranges ar	nd hill slopes	f .			
SURFACE CHARACTER Dominant	Stony	1	Minor			
Biotic Disturbance Indicators Sites with trees and large shrubs only (select one tickbox for	each row)	Dominant >50%	Minor <50%	None - 0	Score	
Presence of palatable shrubs or perennial grasses under the tree/shrub >3m				П		
Presence of mostly intact litter mats under canopy of tree/shr (>50% of tree canopy area has intertwined litter or shrub cove		0		0		
	Total Sco	re (Max 10 -	weighted	by 2.5)		
Physical Disturbance Indicators		Dominant >50%	Minor <50%	None - 0	Score	
Prevalence of large patches of bare soil (> 5m x 5m) that sho of productive capacity (ie ephemeral plant litter, stems etc.)	ws no signs		7			
Evidence of animal tracks, vehicle tracks or other physical dis the natural land surface	sturbance to		V			
Destabilised creek channel banks (if present), characterised by vegetation or stabilizing roots, deflation and bank erosion. Instead on both sides of channels.				Б		
	Total Sco	re (Max 18 -	weighted	by 3)		
Vegetation Stratum (tick the <u>Present</u> box for all stratum that Absent box of any stratum that should be present but have be			Present	Absent	Note; don't tick either box if stratum was likel	
Trees/shrubs >3m					never present -	
Shrubs 1- 3m			D .		e.g. Trees	
Low shrubs <1m & hummock grasses Perennial tussock grasses with basal areas >30mm					stratum in a low shrubland	
refermal tussock grasses with basar areas >50mm	Total Sco	re (Max 16 -	352		6.	
Introduced Plant Species				Select	Score	
Declared species present?				No		
Introduced species dominate (>50% of vegetation cover)						
Moderate invasion of introduced species (5 to 50% of the veg)				
Very sparse to nil introduced species present (<5% of vegeta				V		
	Total Sco	re (Max 10 -	weighted	by 2.5)	1	
Vegetation Utilisation Score					1	
	Total Sco	re (Max 26)			17.5	
	7 - 7 - 7 - 7					
Vegetation Condition Score Calculation					1 47 50	
VEGETATION CONDITION SCORE					47.58	
Low Vegetation Utilisation Score	M	ledium		High		
Introduced Plant Species Score				- 1		
Vegetation Stratum Score						
Physical Disturbance Indicator						
Biotic Disturbance Indicator						

Conservation Significance Sc	ore				
Is the vegetation association considered a Threatene	ed Ecological co	ommuni	ity or Ecosystem?		Tick if Yes
State (Provisional List of Threatened Ecosystems of					
State (Provisional List of Threatened Ecosystems of	of SA) Vulnera	ible con	nmunity (0.2 pts)		
State (Provisional List of Threatened Ecosystems of	•		•		
Nationally (EPBC Act) Vulnerable community (0.3			• • • • • • • • • • • • • • • • • • • •		
Contains a Nationally (EPBC Act) Endangered or		angere	d community (0.4 r	ots)	
Note; all sites will score a minimum Conservation Signific			, ,	Score	1
Number of Threatened Plant Species recorded	for within the	Site			Number
*If a species has both a State (NP&W Act) and Nat	tional (EPBC A	\ct) ratir	ng, it's only recorde	d for its National ratin	g.
State Rare species recorded (1 pt each)	•	,	<u>, , , , , , , , , , , , , , , , , , , </u>		0
State Vulnerable species recorded (2.5 pt each)					0
State Endangered recorded (5 pts each)					0
Nationally Vulnerable species recorded (10 pts ea	ch)				0
Nationally Endangered or Critically endangered		led (20	pts each)		0
0 = 0 pts; <2 = 0.04 pts; 2 - <				6 pts; 20 or > = 0.2 pts	0
				Score	0
				•	
Potential habitat for Threatened Animal Species					Number
*If a species has both a State (NP&W Act) and Nat		(ct) ratir	ng, it's only recorde	d for its National ratin	g.
State Rare species observed or locally recorded (1					2
State Vulnerable species observed or locally recor	· ·	,			0
State Endangered species observed or locally rec	· ·	,			0
Nationally Vulnerable species observed or locally	recorded (10 p	ts each)		2
Nationally Endangered or Critically endangered	species observ	ved or lo	ocally recorded (20	pts each)	0
0 = 0 pts; <2 = 0.02 pts; 2 - <	5 = 0.04 pts; 5 -	<10 = 0	.06 pts; 10 - <20 = 0.	08pts; 20 or > = 0.1 pts	22
				Score	0.1
CONSERVATION SIGNIFICANCE SCORE					1.1
Total Scores for the Site		_		x Landscape Conte	ext x
			servation Signific		
LANDSCAPE CONTEXT SCORE	1.16	UNI	T BIODIVERSIT	/ SCORE	60.71
VEGETATION CONDITION SCORE	47.58	Tota	al Biodiversity S	core	
CONSERVATION SIGNIFICANCE SCORE	1.10	(Bi	odiversity Score	x hectares)	169.99
Photo Point and Vegetation Survey Location				Direction of the Pho	oto
				ODO Deference	
				GPS Reference Datum	
				Zone (52, 53 or 54) Easting (6 digits)	
				Northing (7 digits)	
				Description	
				Description	
Insert Photopoint	Photo				
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					l

SEB Points Required	
Loss Factor	1.0
Loadings for clearance of protected areas	
Reductions for rehabilitation of impact site	
SEB Uplift Factor	1.10
Total SEB Points Required	186.99
SEB - Payment	
SEB points of gain/ha Factor	7.5

SEB - Payment	
SEB points of gain/ha Factor	7.5
Approximate SEB hectares required	24.93
Management Cost (\$/ha)	\$24,764
Economies of Scale Factor	0.11
Mean Annual rainfall for the site (mm)	186
Payment into the Fund (GST exclusive)	\$12,632.33
Administration fee (GST inclusive)	\$694.78
Total Payment Required	\$13,327.11

(Version - 1 Sept 2024)

Block (name)	Strzelecki Track
Landscapes Region	South Australian Arid Lands
IBRA Sub Region	Murnpeowie
Property Name	DIT

ASSESSOR(S)	LJ
DATE OF ASSESSMENT	03-06 Dec 2024

Map of the Block (Including the Sites)

Insert Map

Landscape Context Scores

Number of Landform Features within Block	5
1 = 0.01pts, 2 = 0.03pts, >2 = 0.06pts	0.06

Size of the Block	
<10ha = 0; 10 - <100ha = 0.01pts; 100 - <500ha = 0.02p	ots;
500 - <1000ha = 0.03pts; 1000 - <2000ha = 0.04pts;	
2000 - 5000 = 0.05pts; >5000pts = 0.06pts	0

% native veg. protected in IBRA Sub region	1
0-2% = 0.05 pts; >2-5% = 0.04 pts; >5-10% = 0.03 pts;	
>10-25% = 0.02 pt; >25% = 0.01 pt	0.05

Wetland or Riparian Habitat present	
Does the block contain a wetland feature (Yes/No)	
Permanent or semi permanent = 0.08 pt	No
Contains water for at least 6 months of the year	
Occasionally contains water = 0.05 pts	Yes
Contains water approximately once every 5 years	
Very occasionally contains water = 0.02 pts	Yes
Contains water approximately once every 20 years	
Score	0.05

1.16

Plant Species	Palatability		Utilisation enter the tally from datasheet for each category. If a proportion (>50%, <50% or zero) was recorded in the field, enter the code for each proportion (>50% is 2, <50% is 1, and 0 is 0)			Age Class (M/Y/A)	Site Utilisation Score mean
		ă	Intact Modified	Modified	Over utilised		tilisatio
			number (tally)	number (tally)	number (tally)		
Maireana pyramidata	Black Bluebush	P	2			Mixed	17.42
Atriplex vesicaria	Bladder Saltbush	HP	2			Mixed	
Santalum lanceolatum	Plumbush	HP	2			Mixed	
Maireana astrotricha	Low Bluebush	P	2			Mixed	
Acacia victoriae ssp.	Elegant Wattle	Р	2			Adult	
Maireana coronata	Crown Fissure-plant	Р	2			Mixed	
Rhagodia spinescens	Spiny Saltbush	P	2	()		Mixed	
Cymbopogon ambiguus	Lemon-grass	U	2			Mixed	
Pittosporum angustifolium	Native Apricot	HP	2			Mixed	
Myoporum insulare	Common Boobialla	Р	2			Adult	
Acacia tetragonophylla	Dead Finish	P	2			Adult	
Senna artemisioides ssp. filifolia	Fine-leaf Desert Senna	U	2			Mixed	
Acacia salicina	Willow Wattle	U	2	0		Mixed	
		- 11211					

Threatened Fauna - Recorded or Ob	served	Threat Specie			
Species	Common Name	EPBC	SA	Past Record	Observed
Amytornis modestus	Thick-billed Grasswren	VU		Yes	
Aphelocephala leucopsis leucopsis	Southern Whiteface	VU		Yes	
Falco subniger	Black Falcon		R	Yes	
Neophema elegans elegans	Elegant Parrot		R	Yes	
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Threatened Flora Species - Recorde	d or Observed	Threat Specie			
Species	Common Name	EPBC	SA	Past Record	Observed
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		1			
	1				
	4	#1			
				*	

			Introduced
Common Name	Past Record	Observed	Species
House Sparrow	Yes		*
Cattle (European Cattle)	Yes		*
Feral Dog, Dingo	Yes		*
Dingo	Yes		*
	Yes		*
Goat (Feral Goat)	Yes		*
Donkey (Feral Donkey)	Yes		*
	Yes		*
Domestic Cat (Feral Cat)	Yes		*
House Mouse	Yes		*
Rabbit (European Rabbit)	Yes		*
Sheep (Feral Sheep)	Yes		*
Fox (Red Fox)	Yes		*
1			
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1			-
1			
-			-
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-			
ecorded or Observed			
Common Namo	Past Pasard	Observed	
			*
Smooth Mustard		Yes	*
-		5 g	
10.0			
1			
		the state of the s	
	House Sparrow Cattle (European Cattle) Feral Dog, Dingo Dingo Goat (Feral Goat) Donkey (Feral Donkey) Domestic Cat (Feral Cat) House Mouse Rabbit (European Rabbit) Sheep (Feral Sheep)	Common Name House Sparrow Yes Cattle (European Cattle) Feral Dog, Dingo Pyes Dingo Ves Goat (Feral Goat) Donkey (Feral Donkey) Yes Domestic Cat (Feral Cat) House Mouse Rabbit (European Rabbit) Sheep (Feral Sheep) Fox (Red Fox) Yes Fox (Red Fox) Common Name Past Record Tree Tobacco	Common Name House Sparrow Cattle (European Cattle) Feral Dog, Dingo Dingo Yes Goat (Feral Goat) Ponkey (Feral Donkey) Yes Donkey (Feral Cat) House Mouse Rabbit (European Rabbit) Sheep (Feral Sheep) Fox (Red Fox) Yes Common Name Past Record Past Record Observed Past Record Observed Past Record Observed Past Record Observed Past Record Observed

Vegetation Condition Scores					
SITE (name):	ne): VA8 S		SIZE OF SITE (Ha) 2.12		
VEGETATION ASSOCIATION DESCRIPTION	Santalum	lanceolata +	/- Acacia v	ictoriae tall	shrubland
LANDSCAPE TYPE	Drainage I	lines / floodo	uts		
SURFACE CHARACTER Dominant	Stony		Minor	Cracking	
Biotic Disturbance Indicators Sites with trees and large shrubs only (select one tickbox for	each row)	Dominant >50%	Minor <50%	None - 0	Score
Presence of palatable shrubs or perennial grasses under the tree/shrub >3m			7		
Presence of mostly intact litter mats under canopy of tree/shr (>50% of tree canopy area has intertwined litter or shrub cove			1		
	Total Sco	re (Max 10 -	weighted	by 2.5)	
Physical Disturbance Indicators		Dominant >50%	Minor <50%	None - 0	Score
Prevalence of large patches of bare soil (> 5m x 5m) that sho of productive capacity (ie ephemeral plant litter, stems etc.)	ws no signs				
Evidence of animal tracks, vehicle tracks or other physical dis the natural land surface	sturbance to		•		
Destabilised creek channel banks (if present), characterised by vegetation or stabilizing roots, deflation and bank erosion. Instead on both sides of channels.		Y		D	
	Total Sco	re (Max 18 -	weighted	by 3)	
Vegetation Stratum (tick the <u>Present</u> box for all stratum that Absent box of any stratum that should be present but have be			Present	Absent	Note; don't tick either box if stratum was like
Trees/shrubs >3m			>		never present -
Shrubs 1- 3m			N .		e.g. Trees
Low shrubs <1m & hummock grasses			V V		stratum in a low shrubland
Perennial tussock grasses with basal areas >30mm	Total Sco	re (Max 16 -		□ □ I by 4)	16.
Introduced Plant Species				Select	Score
Declared species present?				No	
ntroduced species dominate (>50% of vegetation cover)					
Moderate invasion of introduced species (5 to 50% of the veg	etation cover)			
Very sparse to nil introduced species present (<5% of vegeta	tion cover)			V	
	Total Sco	re (Max 10 -	weighted	l by 2.5)	1
Vegetation Utilisation Score	1	(11			1
	Total Sco	re (Max 26)			17.4
Vegetation Condition Score Calculation					
VEGETATION CONDITION SCORE					54.42
Low Vegetation Utilisation Score	M	ledium		High	
Introduced Plant Species Score					
Vegetation Stratum Score					
Physical Disturbance Indicator					
7,70.00.00.00.00.00.00.00					
Biotic Disturbance Indicator					

Conservation Significance Sc	ore			
Is the vegetation association considered a Threatene	ed Ecological cor	nmunity or Ecosystem?		Tick if Yes
State (Provisional List of Threatened Ecosystems of				
State (Provisional List of Threatened Ecosystems of	of SA) Vulnerab	le community (0.2 pts)		
State (Provisional List of Threatened Ecosystems of	•	• • • •		
Nationally (EPBC Act) Vulnerable community (0.3		• • • •		
Contains a Nationally (EPBC Act) Endangered or		ngered community (0.4	pts)	
Note; all sites will score a minimum Conservation Signific	-	, , , , , , , , , , , , , , , , , , ,	Score	1
Number of Threatened Plant Species recorded	for within the S	Site_		Number
*If a species has both a State (NP&W Act) and Nat	tional (EPBC Ac	t) rating, it's only recorde	ed for its National ratin	g.
State Rare species recorded (1 pt each)	,	, ,		0
State Vulnerable species recorded (2.5 pt each)				0
State Endangered recorded (5 pts each)				0
Nationally Vulnerable species recorded (10 pts each	ch)			0
Nationally Endangered or Critically endangered	species recorde	d (20 pts each)		0
0 = 0 pts; <2 = 0.04 pts; 2 - <5			16 pts; 20 or > = 0.2 pts	0
			Score	0
Potential habitat for Threatened Animal Species				Number
*If a species has both a State (NP&W Act) and Nat State Rare species observed or locally recorded (1		t) rating, it's only recorde	ed for its National ratin	g.
· · · · · · · · · · · · · · · · · · ·	. ,	- \		
State Vulnerable species observed or locally recorn State Endangered species observed or locally recorn		,		0
Nationally Vulnerable species observed or locally reco		,		0
			\ nto ocob\	2
Nationally Endangered or Critically endangered			· · · · · · · · · · · · · · · · · · ·	0
0 = 0 pts; <2 = 0.02 pts; 2 - <	5 = 0.04 pts; 5 - <	10 = 0.06 pts; 10 - <20 = 0.		22
			Score	0.1
CONSERVATION SIGNIFICANCE SCORE				1.1
CONSERVATION SIGNII ISANSE SCORE				
Total Scores for the Site		Vegetation Condition	x Landscape Conte	ext x
Total Ocoles for the Oile		Conservation Signific	•	
LANDSCAPE CONTEXT SCORE	1.16	UNIT BIODIVERSIT		69.44
VEGETATION CONDITION SCORE	54.42	Total Biodiversity S		05.44
CONSERVATION SIGNIFICANCE SCORE	1.10	(Biodiversity Score		147.21
CONSERVATION SIGNII ICANGE SCORE	1.10	(Blodiversity Score	x nectares)	147.21
Photo Point and Vegetation Survey Location			Direction of the Pho	oto
			GPS Reference	
			Datum	
			Zone (52, 53 or 54)	
			Easting (6 digits)	
			Northing (7 digits)	
			Description	
Insert Photopoint	Photo			
moont incorporate				

SEB Points Required	
Loss Factor	1.0
Loadings for clearance of protected areas	
Reductions for rehabilitation of impact site	
SEB Uplift Factor	1.10
Total SEB Points Required	161.93
SFB - Payment	

SEB - Payment	
SEB points of gain/ha Factor	7.5
Approximate SEB hectares required	21.59
Management Cost (\$/ha)	\$24,764
Economies of Scale Factor	0.11
Mean Annual rainfall for the site (mm)	186
Payment into the Fund (GST exclusive)	\$10,939.37
Administration fee (GST inclusive)	\$601.67
Total Payment Required	\$11,541.04

(Version - 1 Sept 2024)

Block (name)	Strzelecki Track
Landscapes Region	South Australian Arid Lands
IBRA Sub Region	Murnpeowie
Property Name	DIT

ASSESSOR(S)	LJ
DATE OF ASSESSMENT	03-06 Dec 2024

Map of the Block (Including the Sites)

Insert Map

Landscape Context Scores

Number of Landform Features within Block	5
1 = 0.01pts, 2 = 0.03pts, >2 = 0.06pts	0.06

Size of the Block			
<10ha = 0; 10 - <100ha = 0.01pts; 100 - <500ha = 0.02pts;			
500 - <1000ha = 0.03pts; 1000 - <2000ha = 0.04pts;			
2000 - 5000 = 0.05pts; >5000pts = 0.06pts			

% native veg. protected in IBRA Sub region	1
0-2% = 0.05 pts; >2-5% = 0.04 pts; >5-10% = 0.03 pts;	
>10-25% = 0.02 pt; >25% = 0.01 pt	0.05

Wetland or Riparian Habitat present	
Does the block contain a wetland feature (Yes/No)	
Permanent or semi permanent = 0.08 pt	No
Contains water for at least 6 months of the year	
Occasionally contains water = 0.05 pts	Yes
Contains water approximately once every 5 years	
Very occasionally contains water = 0.02 pts	Yes
Contains water approximately once every 20 years	
Score	0.05

1.16

Plant Species Common name	Palatability	Utilisation enter the tally from datasheet for each category. If a proportion (>50%, <50% or zero) was recorded in the field, enter the code for each proportion (>50% is 2, <50% is 1, and 0 is 0)			Age Class (M/Y/A)	Site Utilisation Score mean	
		P. P.	Intact	Modified	Over utilised		Hilisatio
			number (tally)	number (tally)	number (tally)		ite U
Maireana pyramidata	Black Bluebush	P	2			Mixed	16.60
Abutilon halophilum	Plains Lantern-bush	P	2		-	Mixed	2.50-
	Bladder Saltbush	HP	2		-	Adult	
Atriplex vesicaria	Low Bluebush	P	2			Mixed	
Maireana astrotricha	Crown Fissure-plant	P	2			Adult	
Maireana coronata	Crown Fissure-plant	P				Adult	
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	(A)						

Threatened Fauna - Recorded or Observed		Threat Specie			
Species	Common Name	EPBC	SA	Past Record	Observed
Amytornis modestus	Thick-billed Grasswren	VU		Yes	
Aphelocephala leucopsis leucopsis	Southern Whiteface	VU		Yes	
Falco subniger	Black Falcon		R	Yes	
Neophema elegans elegans	Elegant Parrot		R	Yes	
notes and an arrangement of the second					
	II .				
	I				
	Ū				
		13			
Threatened Flora Species - Recorde	d or Observed	Threat Specie			
Species	Common Name	EPBC	SA	Past Record	Observed
		- 1			
	1				
		1			
	4	#1			
				*	

Species				Introduced
	Common Name	Past Record Yes	Observed	Species *
Passer domesticus domesticus	House Sparrow	Yes		*
Bos taurus	Cattle (European Cattle) Feral Dog, Dingo	Yes		*
Canis lupus	Dingo	Yes		*
Canis lupus dingo	Dirigo	Yes		*
Canis sp.	Goat (Feral Goat)	Yes		*
Capra hircus	Donkey (Feral Donkey)	Yes		*
Equus asinus	Donkey (Feral Donkey)	Yes		*
Equus sp. Felis catus	Domestic Cat (Feral Cat)	Yes		*
Mus musculus	House Mouse	Yes		*
Oryctolagus cuniculus	Rabbit (European Rabbit)	Yes		*
Ovis aries	Sheep (Feral Sheep)	Yes		*
	Fox (Red Fox)	Yes		*
Vulpes vulpes	Tox (Red Tox)	163		
	+			-
	+			1
	4	_		
	4			+
	9			
	-			-
	4			-
	-			
	-			-
	+			
and the delay of the bar				
Introduced Flora Species - Re	ecorded or Observed			
Species	Common Name	Past Record	Observed	
	-			
	4			-
	-			-
	-			
	-			
	+			-
	10			
	-			
	4			
	-			
	-			
	-			
	4			
	3			
	A-			
	-			4
	-			
	-			

Vegetation Condition Scores						
SITE (name):	ame): VA9 SIZ		SIZE OF SITE (Ha) 1.22			
/EGETATION ASSOCIATION DESCRIPTION	Sclerolaer	na spp. +/- M	aireana py	ramidata o	pen low shrublar	
ANDSCAPE TYPE	Plain – un	dulating				
SURFACE CHARACTER Dominant	Stony		Minor			
Biotic Disturbance Indicators Sites with trees and large shrubs only (select one tickbox for e	each row)	Dominant >50%	Minor <50%	None - 0	Score	
Presence of palatable shrubs or perennial grasses under the tree/shrub >3m	canopy of					
Presence of mostly intact litter mats under canopy of tree/shru >50% of tree canopy area has intertwined litter or shrub cove				0		
	Total Sco	re (Max 10 -	weighted	by 2.5)		
Physical Disturbance Indicators		Dominant >50%	Minor <50%	None - 0	Score	
Prevalence of large patches of bare soil (> 5m x 5m) that shoof productive capacity (ie ephemeral plant litter, stems etc.)	ws no signs		Y			
Evidence of animal tracks, vehicle tracks or other physical dis the natural land surface	sturbance to		7			
Destabilised creek channel banks (if present), characterised by vegetation or stabilizing roots, deflation and bank erosion. Insee the both sides of channels.			7	П		
	Total Sco	re (Max 18 -	weighted	by 3)		
Vegetation Stratum (tick the <u>Present</u> box for all stratum that Absent box of any stratum that should be present but have be			Present	Absent	Note; don't tick either box if stratum was likely	
Trees/shrubs >3m					never present -	
Shrubs 1- 3m			Image: section of the content of the		e.g. Trees	
ow shrubs <1m & hummock grasses			V		stratum in a low shrubland	
Perennial tussock grasses with basal areas >30mm	Total Sco	re (Max 16 -		□ □ □ □	6.	
	-					
Introduced Plant Species				Select	Score	
Declared species present?				No		
ntroduced species dominate (>50% of vegetation cover)						
Moderate invasion of introduced species (5 to 50% of the veg)				
Very sparse to nil introduced species present (<5% of vegetate		ro /May 40	uvolahtoa	☑ bv 2 €\	4	
	Total Sco	re (Max 10 -	weighted	Dy 2.5)	1	
Vegetation Utilisation Score						
	Total Sco	re (Max 26)			16.60	

Vegetation Condition Score Calculation					46.60	
VEGETATION CONDITION SCORE					40.00	
Low Vegetation Utilisation Score	M	edium		High		
Introduced Plant Species Score						
Vegetation Stratum Score						
Physical Disturbance Indicator						
Biotic Disturbance Indicator						

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Conservation Significance Sc	ore				
Is the vegetation association considered a Threatene	ed Ecological co	ommunity or Ecosystem?		Tick if Yes	
tate (Provisional List of Threatened Ecosystems of SA) Rare community (0.1 pt)					
State (Provisional List of Threatened Ecosystems of SA) Vulnerable community (0.2 pts)					
State (Provisional List of Threatened Ecosystems of	•	• • • •)		
Nationally (EPBC Act) Vulnerable community (0.3					
Contains a Nationally (EPBC Act) Endangered or		angered community (0.4	pts)		
Note; all sites will score a minimum Conservation Signific			Score	1	
Number of Threatened Plant Species recorded	for within the	Site		Number	
*If a species has both a State (NP&W Act) and Nat	tional (EPBC A	 ct) rating, it's only record	ed for its National ratin	ıg.	
State Rare species recorded (1 pt each)		, <u>, , , , , , , , , , , , , , , , , , </u>		0	
State Vulnerable species recorded (2.5 pt each)				0	
State Endangered recorded (5 pts each)				0	
Nationally Vulnerable species recorded (10 pts ea	ch)			0	
Nationally Endangered or Critically endangered	,	ed (20 pts each)		0	
0 = 0 pts; <2 = 0.04 pts; 2 - <5			.16 pts; 20 or > = 0.2 pts	0	
			Score	0	
Potential habitat for Threatened Animal Species				Number	
*If a species has both a State (NP&W Act) and Nat		ct) rating, it's only record	ed for its National ratin	ıg.	
State Rare species observed or locally recorded (1				2	
State Vulnerable species observed or locally recor	, ,	•		0	
State Endangered species observed or locally rec	, ,	•		0	
Nationally Vulnerable species observed or locally	recorded (10 pt	ts each)		2	
Nationally Endangered or Critically endangered	species observ	ed or locally recorded (20	0 pts each)	0	
0 = 0 pts; <2 = 0.02 pts; 2 - <	5 = 0.04 pts; 5 -	<10 = 0.06 pts; 10 - <20 = 0	.08pts; 20 or > = 0.1 pts	22	
			Score	0.1	
CONSERVATION SIGNIFICANCE SCORE				1.1	
Total Scores for the Site		_	n x Landscape Conte	ext x	
		Conservation Signifi			
LANDSCAPE CONTEXT SCORE	1.16	UNIT BIODIVERSIT	Y SCORE	59.46	
VEGETATION CONDITION SCORE	46.60	Total Biodiversity	Score		
CONSERVATION SIGNIFICANCE SCORE	1.10	(Biodiversity Scor	e x hectares)	72.54	
Photo Point and Vegetation Survey Location			Direction of the Pho	oto	
			ODO Deference		
			GPS Reference Datum		
			Zone (52, 53 or 54) Easting (6 digits)		
			Northing (7 digits)		
			Description		
			Description		
Insert Photopoint	Photo				
				l	
			I		

SEB Points Required	
Loss Factor	1.0
Loadings for clearance of protected areas	
Reductions for rehabilitation of impact site	
SEB Uplift Factor	1.10
Total SEB Points Required	79.79
SEB - Payment	
SEB points of gain/ha Factor	7.5

SEB - Payment	
SEB points of gain/ha Factor	7.5
Approximate SEB hectares required	10.64
Management Cost (\$/ha)	\$24,764
Economies of Scale Factor	0.11
Mean Annual rainfall for the site (mm)	186
Payment into the Fund (GST exclusive)	\$5,390.31
Administration fee (GST inclusive)	\$296.47
Total Payment Required	\$5,686.78

(Version - 1 Sept 2024)

Block (name) Strzelecki Track		
Landscapes Region	South Australian Arid Lands	
IBRA Sub Region	Murnpeowie	
Property Name	DIT	

ASSESSOR(S)	LJ
DATE OF ASSESSMENT	03-06 Dec 2024

Map of the Block (Including the Sites)

Insert Map

Landscape Context Scores

Number of Landform Features within Block	5
1 = 0.01pts, 2 = 0.03pts, >2 = 0.06pts	0.06

Size of the Block		
<10ha = 0; 10 - <100ha = 0.01pts; 100 - <500ha = 0.02pts;		
500 - <1000ha = 0.03pts; 1000 - <2000ha = 0.04pts;		
2000 - 5000 = 0.05pts; >5000pts = 0.06pts	0	

% native veg. protected in IBRA Sub region	1
0-2% = 0.05 pts; >2-5% = 0.04 pts; >5-10% = 0.03 pts;	
>10-25% = 0.02 pt; >25% = 0.01 pt	0.05

Wetland or Riparian Habitat present	
Does the block contain a wetland feature (Yes/No)	
Permanent or semi permanent = 0.08 pt	No
Contains water for at least 6 months of the year	
Occasionally contains water = 0.05 pts	Yes
Contains water approximately once every 5 years	
Very occasionally contains water = 0.02 pts	Yes
Contains water approximately once every 20 years	
Score	0.05

1.16

Plant Species	Common name	Palatability	Utilisation enter the tally from datasheet for each category. If a proportion (>50%, <50% or zero) was recorded in the field, enter the code for each proportion (>50% is 2, <50% is 1, and 0 is 0)			Age Class (M/Y/A)	Site Utilisation Score mean
		2	Intact	Modified	Over utilised	(,,	tilisatio
			number (tally)	number (tally)	number (tally)		Site U
Maireana pyramidata	Black Bluebush	P	2	1		Mixed	13.
Rhagodia spinescens	Spiny Saltbush	Р	2	1		Mixed	
Sida petrophila	Rock Sida	U	2			Mixed	
Maireana astrotricha	Low Bluebush	P	2	1		Mixed	
Eremophila duttonii	Harlequin Emubush	Ü		2		Adult	

Threatened Fauna - Recorded or Ob	oserved	Threat Specie			
Species	Common Name	ЕРВС	SA	Past Record	Observed
Amytornis modestus	Thick-billed Grasswren	VU		Yes	
Aphelocephala leucopsis leucopsis	Southern Whiteface	VU		Yes	
Falco subniger	Black Falcon		R	Yes	
Neophema elegans elegans	Elegant Parrot		R	Yes	
ni wasan wan in a wan i					
		1			
	-				
		71			
Threatened Flora Species - Recorde	a or Observed	Threat Specie			
	A Section Sect	0.0150	SA	Doct Docord	Observed
Species	Common Name	EPBC	SA	Past Record	
Species Species	Common Name	EPBC	SA	Past Record	
pecies	Common Name	ЕРВС	3A	rast Record	
pecies	Common Name	EPBC	SA	rast Record	
pecies	Common Name	EPBC	SA.	rast Record	
pecies	Common Name	EPBC	SA .	rast Record	
pecies	Common Name	EPBC	SA .	rast Record	
pecies	Common Name	EPBC	3A	rast Record	
pecies	Common Name	EPBC	SA .	rast Record	
pecies	Common Name	EPBC	JA .	rast Record	
pecies	Common Name	EPBC	JA .	rast Record	
pecies	Common Name	EPBC	JA .	rast Record	
pecies	Common Name	EPBC	JA .	rast Record	
pecies	Common Name	EPBC	JA .	rast record	
pecies	Common Name	EPBC	JA .	rast Record	
pecies	Common Name	EPBC	JA .	rast record	
pecies	Common Name	EPBC	JA .	rast record	
pecies	Common Name	EPBC	JA .	rast record	
pecies	Common Name	EPBC	JA .	rast record	
pecies	Common Name	EPBC	JA .	rast record	
pecies	Common Name	EPBC	JA .	rast record	
pecies	Common Name	EPBC	JA .	rast record	
pecies	Common Name	EPBC	JA .	rast record	
pecies	Common Name	EPBC	JA .	rast record	

Species	200000000000000000000000000000000000000	-		Introduced
	Common Name	Past Record Yes	Observed	Species *
Passer domesticus domesticus	House Sparrow	Yes		*
Bos taurus	Cattle (European Cattle) Feral Dog, Dingo	Yes		*
Canis lupus	Dingo	Yes		*
Canis lupus dingo	Diligo	Yes		*
Canis sp.	Goat (Feral Goat)	Yes		*
Capra hircus	Donkey (Feral Donkey)	Yes		*
Equus asinus	Donkey (Feral Donkey)	Yes		*
Equus sp. Felis catus	Domestic Cat (Feral Cat)	Yes		*
Mus musculus	House Mouse	Yes		*
Oryctolagus cuniculus	Rabbit (European Rabbit)	Yes		*
Ovis aries	Sheep (Feral Sheep)	Yes		*
	Fox (Red Fox)	Yes		*
Vulpes vulpes	Tox (ned Tox)	163		
	-			-
	4			1
	4			
	-			+
	4			
	-			-
	4			
	-			
	4			
	+			
Introduced Flora Species - Re	corded or Observed			
Species	Common Name	Past Record	Observed	
	1			
	S-12			
				-

Vegetation Condition Scores								
SITE (name):	VA10		SIZE OF	F SITE (Ha) 4.37				
VEGETATION ASSOCIATION DESCRIPTION	Maireana astrotricha +/- Maireana pyramidata open shrublan							
LANDSCAPE TYPE	Plain – un	dulating						
SURFACE CHARACTER Dominant	Stony		Minor					
Biotic Disturbance Indicators Sites with trees and large shrubs only (select one tickbox for e	each row)	Dominant >50%	Minor <50%	None - 0	Score			
Presence of palatable shrubs or perennial grasses under the tree/shrub >3m				П				
Presence of mostly intact litter mats under canopy of tree/shruk >50% of tree canopy area has intertwined litter or shrub cover		0		0				
	Total Sco	re (Max 10 -	weighted	by 2.5)	4			
Physical Disturbance Indicators		Dominant >50%	Minor <50%	None - 0	Score			
Prevalence of large patches of bare soil (> 5m x 5m) that sho of productive capacity (ie ephemeral plant litter, stems etc.)	ws no signs			П				
Evidence of animal tracks, vehicle tracks or other physical dis the natural land surface	sturbance to		v					
Destabilised creek channel banks (if present), characterised by vegetation or stabilizing roots, deflation and bank erosion. Inso on both sides of channels.				П				
	Total Sco	re (Max 18 -	weighted	by 3)				
Vegetation Stratum (tick the <u>Present</u> box for all stratum that Absent box of any stratum that should be present but have be			Present	Absent	Note; don't tick either box if stratum was like			
Trees/shrubs >3m					never present -			
Shrubs 1- 3m			D.		e.g. Trees			
Low shrubs <1m & hummock grasses			\overline{\text{V}}		stratum in a low shrubland			
Perennial tussock grasses with basal areas >30mm	Total Sco	re (Max 16 -		□ □ by 4)	6			
Introduced Plant Species	~			Select	Score			
Declared species present?				No	20010			
Introduced species dominate (>50% of vegetation cover)								
Moderate invasion of introduced species (5 to 50% of the veg	etation cover	-)						
Very sparse to nil introduced species present (<5% of vegetar		/		<u> </u>				
		re (Max 10 -	weighted	by 2.5)				
Vegetation Utilisation Score								
	Total Sco	re (Max 26)			13.0			
Vegetation Condition Score Calculation								
VEGETATION CONDITION SCORE					43.05			
Low Vegetation Utilisation Score	M	ledium		High				
Introduced Plant Species Score				- 1				
Vegetation Stratum Score								
Physical Disturbance Indicator								
Physical Disturbance Indicator Biotic Disturbance Indicator								

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Conservation Significance Sc	ore							
Is the vegetation association considered a Threatene	ed Ecological o	om	munity or Ecosystem?		Tick if Yes			
State (Provisional List of Threatened Ecosystems of								
State (Provisional List of Threatened Ecosystems of	of SA) Vulner	able	e community (0.2 pts)					
State (Provisional List of Threatened Ecosystems of	•		• • • •					
Nationally (EPBC Act) Vulnerable community (0.3	•	_	• • • • •					
Contains a Nationally (EPBC Act) Endangered or		dan	gered community (0.4)	ots)				
Note; all sites will score a minimum Conservation Signific			, , ,	Score	1			
Number of Threatened Plant Species recorded	for within the	e Si	te_		Number			
*If a species has both a State (NP&W Act) and Nat	tional (EPBC)	Act)	rating, it's only recorde	d for its National ratin	g.			
State Rare species recorded (1 pt each)	,		<u> </u>		0			
State Vulnerable species recorded (2.5 pt each)					0			
State Endangered recorded (5 pts each)					0			
Nationally Vulnerable species recorded (10 pts each)								
Nationally Endangered or Critically endangered	,	ded	(20 pts each)		0			
0 = 0 pts; <2 = 0.04 pts; 2 - <5				6 pts; 20 or > = 0.2 pts	0			
			• •	Score	0			
Potential habitat for Threatened Animal Species					Number			
*If a species has both a State (NP&W Act) and Nat		Act)	rating, it's only recorde	d for its National ratin	g.			
State Rare species observed or locally recorded (1					2			
State Vulnerable species observed or locally recor					0			
State Endangered species observed or locally rec			•		0			
Nationally Vulnerable species observed or locally	recorded (10 _l	ots (each)		2			
Nationally Endangered or Critically endangered	species obser	vec	or locally recorded (20	pts each)	0			
0 = 0 pts; <2 = 0.02 pts; 2 - <	5 = 0.04 pts; 5	- <1	0 = 0.06 pts; $10 - <20 = 0.06$	08pts; 20 or > = 0.1 pts	22			
				Score	0.1			
CONSERVATION SIGNIFICANCE SCORE					1.1			
Total Scores for the Site			Vegetation Condition	•	ext x			
			Conservation Signific					
LANDSCAPE CONTEXT SCORE	1.16		UNIT BIODIVERSIT	/ SCORE	54.93			
VEGETATION CONDITION SCORE	43.05		Total Biodiversity S	core				
CONSERVATION SIGNIFICANCE SCORE	1.10		(Biodiversity Score	x hectares)	240.04			
Photo Point and Vegetation Survey Location				Direction of the Pho	oto			
				ODO Deference				
				GPS Reference Datum				
				Zone (52, 53 or 54) Easting (6 digits)				
				Northing (7 digits)				
				Description				
				Description				
Insert Photopoint	Photo							

SEB Offset Calculations (when assessing a proposed clearance site)

SEB Points Required	
Loss Factor	1.0
Loadings for clearance of protected areas	
Reductions for rehabilitation of impact site	
SEB Uplift Factor	1.10
Total SEB Points Required	264.04
SEB - Payment	
SEB points of gain/ha Factor	7.5
Approximate SEB hectares required	35.21
Management Cost (\$/ha)	\$24,764
Economies of Scale Factor	0.11
Mean Annual rainfall for the site (mm)	186
Payment into the Fund (GST exclusive)	\$17,837.54
Administration fee (GST inclusive)	\$981.06
Total Payment Required	\$18,818.60

Attachment 2

Plant Species Recorded (Native and Introduced)

Plant Species Recorded (Native and Introduced)

Species	Common Name	EPBC Act	NP&W Act	Introduced	VA1	VA2	VA3	VA4	VA5	VA6	VA7	VA8	VA9	VA10
Abutilon halophilum	Plains Lantern- bush				1		1		V				1	
Abutilon leucopetalum	Desert Lantern- bush	1 3			Y- ,	1								
Acacia salicina	Willow Wattle					1		1	1			1		
Acacia tetragonophylla	Dead Finish			-		1	1	1				1		
Acacia victoriae ssp.	Elegant Wattle					1	1	1	1	1	1	1		
Amyema sp.	Mistletoe			.1		1								
Arabidella glaucescens					1					1				14
Argemone ochroleuca ssp. ochroleuca	Mexican Poppy			*					1					
Aristida sp.	Three-awn/Wire- grass								MI		1			1
Astrebla pectinata	Barley Mitchell- grass				1		~				1		1	
Atriplex holocarpa	Pop Saltbush				1	1		1	April 1	1				
Atriplex lindleyi ssp.	Baldoo	-									14		1	1
Atriplex vesicaria	Bladder Saltbush]							1	1	1	
Carrichtera annua	Ward's Weed			*		1	1	1	3 = 1	1			1	
Convolvulus sp.	Bindweed						V						7	
Cucumis argenteus	Snake Vine			· ·				1						1 14
Cucumis myriocarpus ssp. myriocarpus	Paddy Melon			*			II.	1	1					

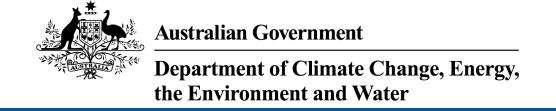
Cymbopogon												
ambiguus	Lemon-grass			✓			✓			✓		
Cynodon dactylon var.	Couch			✓			✓					
Dissocarpus												
paradoxus	Ball Bindyi		✓									
	Climbing											
Einadia nutans ssp.	Saltbush			✓								
Enchylaena tomentosa												
var.	Ruby Saltbush				✓							
Enneapogon	Common Bottle-											
avenaceus	washers											
Eragrostis dielsii	Mulka		✓									
Eragrostis sp.	Love-grass			✓	✓						✓	
	Harlequin											
Eremophila duttonii	Emubush				✓							✓
Eremophila freelingii	Rock Emubush											
	Weeping											
Eremophila longifolia	Emubush			✓								
Eucalyptus												
camaldulensis ssp.	River Red Gum						✓					
Gramineae sp.	Grass Family							✓		✓		
	Australian											
Lycium australe	Boxthorn			✓	✓		✓					
Maireana astrotricha	Low Bluebush		✓			✓		✓	✓	✓	✓	✓
	Crown Fissure-											
Maireana coronata	plant								✓	✓	✓	
Maireana pyramidata	Black Bluebush							✓	✓	✓	✓	✓
Malvastrum												
americanum var.												
americanum	Malvastrum											
	Inland Paper-											
Melaleuca glomerata	bark						✓					

Minuria sp.	Minuria			✓		✓			✓	✓	✓		
Myoporum montanum	Native Myrtle										✓		
Nicotiana glauca	Tree Tobacco		*								✓		✓
Nicotiana velutina	Velvet Tobacco								✓				
Osteocarpum sp.	Bonefruit												
Pittosporum													
angustifolium	Native Apricot				✓						✓		
Plantago sp.	Plantain								✓				✓
	Silver Mulla												
Ptilotus obovatus	Mulla				✓								
Pterocaulon													
sphacelatum	Apple-bush				✓	✓	✓	✓			✓		
Rhagodia spinescens	Spiny Saltbush				✓		✓				✓		✓
Salsola australis	Buckbush			✓		✓	✓		✓	✓	✓	✓	✓
Santalum lanceolatum	Plumbush				✓		✓				✓		✓
Sclerolaena	Short-wing												
brachyptera	Bindyi			✓					✓	✓	✓	✓	
Sclerolaena cuneata	Tangled Bindyi			✓			✓					✓	
Sclerolaena decurrens	Green Bindyi									✓		✓	✓
Sclerolaena holtiana	Holt's Bindyi								✓				
Sclerolaena intricata	Tangled Bindyi						✓					✓	
Sclerolaena lanicuspis	Spinach Bindyi					✓							
Sclerolaena	Long-spine												
longicuspis	Bindyi			✓	✓	✓				✓			✓
Sclerolaena	Spear-fruit												
patenticuspis	Bindyi												
Senna artemisioides	Fine-leaf Desert												
ssp. filifolia	Senna										✓		
Sida corrugata var.	Corrugated Sida												
Sida intricata	Twiggy Sida			✓		✓	✓		✓	✓			
Sida petrophila	Rock Sida												✓

Sida sp.				✓					
Sisymbrium									
erysimoides	Smooth Mustard		*	✓				✓	
Tribulus terrestris	Caltrop		*	✓	✓				
	New Holland								
Vittadinia sp.	Daisy					✓			✓
Wahlenbergia sp.	Native Bluebell			✓				·	

Attachment 3

Environmental Protection Biodiversity Conservation Act 1999 Protected Matters Report



EPBC Act Protected Matters Report

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. Please see the caveat for interpretation of information provided here.

Report created: 12-Nov-2024

Summary

Details

Matters of NES
Other Matters Protected by the EPBC Act
Extra Information

Caveat

Acknowledgements

Summary

Matters of National Environment 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 <u>Administrative Guidelines on Significance</u>.

World Heritage Properties:	None
National Heritage Places:	None
Wetlands of International Importance (Ramsar	None
Great Barrier Reef Marine Park:	None
Commonwealth Marine Area:	None
Listed Threatened Ecological Communities:	1
Listed Threatened Species:	29
Listed Migratory Species:	9

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. Information on the new heritage laws can be found at https://www.dcceew.gov.au/parks-heritage/heritage

A <u>permit</u> 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.

Commonwealth Lands:	None
Commonwealth Heritage Places:	None
Listed Marine Species:	15
Whales and Other Cetaceans:	None
Critical Habitats:	None
Commonwealth Reserves Terrestrial:	None
Australian Marine Parks:	None
Habitat Critical to the Survival of Marine Turtles:	None

Extra Information

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

State and Territory Reserves:	1
Regional Forest Agreements:	None
Nationally Important Wetlands:	1
EPBC Act Referrals:	6
Key Ecological Features (Marine):	None
Biologically Important Areas:	None
Bioregional Assessments:	None
Geological and Bioregional Assessments:	None

Details

Curlew Sandpiper [856]

Matters of National Environmental Significance

Listed Threatened Ecological Communities

[Resource Information]

For threatened ecological communities where the distribution is well known, maps are derived from recovery plans, State vegetation maps, remote sensing imagery and other sources. Where threatened ecological community distributions are less well known, existing vegetation maps and point location data are used to produce indicative distribution maps.

Status of Vulnerable, Disallowed and Ineligible are not MNES under the EPBC Act.

Community Name	Threatened Category	Presence Text	Buffer Status
The community of native species dependent on natural discharge of groundwater from the Great Artesian Basin	Endangered	Community likely to occur within area	In buffer area only

Listed Threatened Species		[Re	esource Information]
Status of Conservation Dependent and Number is the current name ID.	Extinct are not MNES und	er the EPBC Act.	
Scientific Name	Threatened Category	Presence Text	Buffer Status
BIRD			
Amytornis merrotsyi merrotsyi Short-tailed Grasswren (Flinders Ranges) [86269]	Vulnerable	Species or species habitat known to occur within area	In buffer area only
Amytornis modestus Thick-billed Grasswren [84121]	Vulnerable	Species or species	In feature area
		habitat known to occur within area	
Aphelocephala leucopsis			
Southern Whiteface [529]	Vulnerable	Species or species habitat known to occur within area	In feature area
Calidris acuminata			
Sharp-tailed Sandpiper [874]	Vulnerable	Species or species habitat may occur within area	In feature area
Calidris ferruginea			

Critically Endangered

Species or species

habitat may occur

within area

In feature area

Scientific Name	Threatened Category	Presence Text	Buffer Status
Falco hypoleucos Grey Falcon [929]	Vulnerable	Species or species habitat known to occur within area	In feature area
Gallinago hardwickii Latham's Snipe, Japanese Snipe [863]	Vulnerable	Species or species habitat may occur within area	In feature area
Grantiella picta Painted Honeyeater [470]	Vulnerable	Species or species habitat may occur within area	In buffer area only
Melanodryas cucullata cucullata South-eastern Hooded Robin, Hooded Robin (south-eastern) [67093]	Endangered	Species or species habitat may occur within area	In buffer area only
Neophema chrysostoma Blue-winged Parrot [726]	Vulnerable	Species or species habitat known to occur within area	In feature area
Pedionomus torquatus Plains-wanderer [906]	Critically Endangered	Species or species habitat may occur within area	In feature area
Pezoporus occidentalis Night Parrot [59350]	Endangered	Species or species habitat may occur within area	In feature area
Polytelis alexandrae Princess Parrot, Alexandra's Parrot [758]	Vulnerable	Species or species habitat may occur within area	In buffer area only
Rostratula australis Australian Painted Snipe [77037]	Endangered	Species or species habitat may occur within area	In feature area
Stagonopleura guttata Diamond Firetail [59398]	Vulnerable	Species or species habitat may occur within area	In buffer area only
FISH			
Mogurnda clivicola Flinders Ranges Mogurnda, Flinders Ranges Purple-spotted Gudgeon [66693]	Vulnerable	Species or species habitat likely to occur within area	In buffer area only
MAMMAL			

Scientific Name	Threatened Category	Presence Text	Buffer Status
Notomys fuscus	Threatened Category	T TOSCHOO TOXE	Danci Otatas
Dusky Hopping-mouse, Wilkiniti [125]	Vulnerable	Species or species habitat known to occur within area	In feature area
Petrogale xanthopus xanthopus Yellow-footed Rock-wallaby (SA and NSW) [66646]	Vulnerable	Species or species habitat known to occur within area	In buffer area only
Pseudomys australis Plains Rat, Palyoora, Plains Mouse [108]	Vulnerable	Species or species habitat known to occur within area	In feature area
PLANT			
Acacia araneosa Spidery Wattle, Balcanoona Wattle [20767]	Vulnerable	Species or species habitat known to occur within area	In buffer area only
Acacia carneorum Needle Wattle, Dead Finish, Purplewood Wattle [66685]	Vulnerable	Species or species habitat may occur within area	In buffer area only
Acacia menzelii Menzel's Wattle [9218]	Vulnerable	Species or species habitat may occur within area	In buffer area only
Codonocarpus pyramidalis Slender Bell-fruit, Camel Poison [19507]	Vulnerable	Species or species habitat known to occur within area	In feature area
Eriocaulon carsonii Salt Pipewort, Button Grass [10584]	Endangered	Species or species habitat known to occur within area	In buffer area only
Frankenia plicata [4225]	Endangered	Species or species habitat known to occur within area	In feature area
Pterostylis xerophila Desert Greenhood [7997]	Vulnerable	Species or species habitat may occur within area	In buffer area only
Swainsona murrayana Slender Darling-pea, Slender Swainson, Murray Swainson-pea [6765]	Vulnerable	Species or species habitat may occur within area	In buffer area only

Scientific Name	Threatened Category	Presence Text	Buffer Status
Xerothamnella parvifolia [3141]	Vulnerable	Species or species habitat likely to occur within area	In feature area
REPTILE			
Aprasia pseudopulchella Flinders Ranges Worm-lizard [1666]	Vulnerable	Species or species habitat may occur within area	In buffer area only
Listed Migratory Species		[Res	source Information]
Scientific Name	Threatened Category	Presence Text	Buffer Status
Migratory Marine Birds	<u> </u>		
Apus pacificus Fork-tailed Swift [678]		Species or species habitat likely to occur within area	In feature area
Migratory Terrestrial Species			
Motacilla cinerea Grey Wagtail [642]		Species or species habitat may occur within area	In feature area
Motacilla flava Yellow Wagtail [644]		Species or species habitat may occur within area	In feature area
Migratory Wetlands Species			
Actitis hypoleucos Common Sandpiper [59309]		Species or species habitat may occur within area	In feature area
Calidris acuminata Sharp-tailed Sandpiper [874]	Vulnerable	Species or species habitat may occur within area	In feature area
Calidris ferruginea Curlew Sandpiper [856]	Critically Endangered	Species or species habitat may occur within area	In feature area
Calidris melanotos Pectoral Sandpiper [858]		Species or species habitat may occur within area	In feature area
Charadrius veredus Oriental Plover, Oriental Dotterel [882]		Species or species habitat may occur within area	In buffer area only

Scientific Name	Threatened Category	Presence Text	Buffer Status
Gallinago hardwickii Latham's Snipe, Japanese Snipe [863]	Vulnerable	Species or species	In feature area
		habitat may occur within area	

Other Matters Protected by the EPBC Act

Listed Marine Species		[Re	source Information
Scientific Name	Threatened Category	Presence Text	Buffer Status
Bird			
Actitis hypoleucos Common Sandpiper [59309]		Species or species habitat may occur within area	In feature area
Apus pacificus Fork-tailed Swift [678]		Species or species habitat likely to occur within area overfly marine area	In feature area
Bubulcus ibis as Ardea ibis Cattle Egret [66521]		Species or species habitat may occur within area overfly marine area	In feature area
Calidris acuminata Sharp-tailed Sandpiper [874]	Vulnerable	Species or species habitat may occur within area	In feature area
Calidris ferruginea Curlew Sandpiper [856]	Critically Endangered	Species or species habitat may occur within area overfly marine area	In feature area
Calidris melanotos Pectoral Sandpiper [858]		Species or species habitat may occur within area overfly marine area	In feature area

Scientific Name	Threatened Category	Presence Text	Buffer Status
Chalcites osculans as Chrysococcyx osc Black-eared Cuckoo [83425]	<u>:ulans</u>	Species or species habitat known to occur within area overfly marine area	In feature area
Charadrius veredus Oriental Plover, Oriental Dotterel [882]		Species or species habitat may occur within area overfly marine area	In buffer area only
Gallinago hardwickii Latham's Snipe, Japanese Snipe [863]	Vulnerable	Species or species habitat may occur within area overfly marine area	In feature area
Haliaeetus leucogaster White-bellied Sea-Eagle [943]		Species or species habitat may occur within area	In buffer area only
Merops ornatus Rainbow Bee-eater [670]		Species or species habitat may occur within area overfly marine area	In feature area
Motacilla cinerea Grey Wagtail [642]		Species or species habitat may occur within area overfly marine area	In feature area
Motacilla flava Yellow Wagtail [644]		Species or species habitat may occur within area overfly marine area	In feature area
Neophema chrysostoma Blue-winged Parrot [726]	Vulnerable	Species or species habitat known to occur within area overfly marine area	In feature area
Rostratula australis as Rostratula bengha Australian Painted Snipe [77037]	alensis (sensu lato) Endangered	Species or species habitat may occur within area overfly marine area	In feature area

Extra Information

State and Territory Reserves			[Resource Information]
Protected Area Name	Reserve Type	State	Buffer Status
Vulkathunha-Gammon Ranges	National Park	SA	In buffer area only

Nationally Important Wetlands		[Resource Information]
Wetland Name	State	Buffer Status
Lake Eyre Mound Springs	SA	In buffer area only

EPBC Act Referrals			[Resou	rce Information]
Title of referral	Reference	Referral Outcome	Assessment Status	Buffer Status
Controlled action				
Expansion of the Olympic Dam copper, uranium, gold and silver mine, processing plant and associated	2005/2270	Controlled Action	Post-Approval	In feature area
Four Mile Extension to the Beverley Uranium Mine	2008/4252	Controlled Action	Post-Approval	In buffer area only
Mt Gee Uranium Mining	2007/3716	Controlled Action	Completed	In buffer area only
Prominent Hill Copper-Gold Project	2005/2040	Controlled Action	Post-Approval	In feature area
Not controlled action				
Improving rabbit biocontrol: releasing another strain of RHDV, sthrn two thirds of Australia	2015/7522	Not Controlled Action	Completed	In feature area
Referral decision				
Four Mile Extension to the Beverley Uranium Mine	2008/4231	Referral Decision	Completed	In buffer area only

Caveat

1 PURPOSE

This report is designed to assist in identifying the location of matters of national environmental significance (MNES) and other matters protected by the Environment Protection and Biodiversity Conservation Act 1999 (Cth) (EPBC Act) which may be relevant in determining obligations and requirements under the EPBC Act.

The report contains the mapped locations of:

- World and National Heritage properties;
- Wetlands of International and National Importance;
- Commonwealth and State/Territory reserves;
- distribution of listed threatened, migratory and marine species;
- listed threatened ecological communities; and
- other information that may be useful as an indicator of potential habitat value.

2 DISCLAIMER

This report is not intended to be exhaustive and should only be relied upon as a general guide as mapped data is not available for all species or ecological communities listed under the EPBC Act (see below). Persons seeking to use the information contained in this report to inform the referral of a proposed action under the EPBC Act should consider the limitations noted below and whether additional information is required to determine the existence and location of MNES and other protected matters.

Where data is available to inform the mapping of protected species, the presence type (e.g. known, likely or may occur) that can be determined from the data is indicated in general terms. It is the responsibility of any person using or relying on the information in this report to ensure that it is suitable for the circumstances of any proposed use. The Commonwealth cannot accept responsibility for the consequences of any use of the report or any part thereof. To the maximum extent allowed under governing law, the Commonwealth will not be liable for any loss or damage that may be occasioned directly or indirectly through the use of, or reliance on the contents of this report.

3 DATA SOURCES

Threatened ecological communities

For threatened ecological communities where the distribution is well known, maps are generated based on information contained in recovery plans, State vegetation maps and remote sensing imagery and other sources. Where threatened ecological community distributions are less well known, existing vegetation maps and point location data are used to produce indicative distribution maps.

Threatened, migratory and marine species

Threatened, migratory and marine species distributions have been discerned through a variety of methods. Where distributions are well known and if time permits, distributions are inferred from either thematic spatial data (i.e. vegetation, soils, geology, elevation, aspect, terrain, etc.) together with point locations and described habitat; or modelled (MAXENT or BIOCLIM habitat modelling) using point locations and environmental data layers.

Where little information is available for a species or large number of maps are required in a short time-frame, maps are derived either from 0.04 or 0.02 decimal degree cells; by an automated process using polygon capture techniques (static two kilometre grid cells, alpha-hull and convex hull); or captured manually or by using topographic features (national park boundaries, islands, etc.).

In the early stages of the distribution mapping process (1999-early 2000s) distributions were defined by degree blocks, 100K or 250K map sheets to rapidly create distribution maps. More detailed distribution mapping methods are used to update these distributions when time permits.

4 LIMITATIONS

The following species and ecological communities have not been mapped and do not appear in this report:

- threatened species listed as extinct or considered vagrants;
- some recently listed species and ecological communities;
- some listed migratory and listed marine species, which are not listed as threatened species; and
- migratory species that are very widespread, vagrant, or only occur in Australia in small numbers.

The following groups have been mapped, but may not cover the complete distribution of the species:

- listed migratory and/or listed marine seabirds, which are not listed as threatened, have only been mapped for recorded breeding sites; and
- seals which have only been mapped for breeding sites near the Australian continent

The breeding sites may be important for the protection of the Commonwealth Marine environment.

Refer to the metadata for the feature group (using the Resource Information link) for the currency of the information.

Acknowledgements

This database has been compiled from a range of data sources. The department acknowledges the following custodians who have contributed valuable data and advice:

- -Office of Environment and Heritage, New South Wales
- -Department of Environment and Primary Industries, Victoria
- -Department of Primary Industries, Parks, Water and Environment, Tasmania
- -Department of Environment, Water and Natural Resources, South Australia
- -Department of Land and Resource Management, Northern Territory
- -Department of Environmental and Heritage Protection, Queensland
- -Department of Parks and Wildlife, Western Australia
- -Environment and Planning Directorate, ACT
- -Birdlife Australia
- -Australian Bird and Bat Banding Scheme
- -Australian National Wildlife Collection
- -Natural history museums of Australia
- -Museum Victoria
- -Australian Museum
- -South Australian Museum
- -Queensland Museum
- -Online Zoological Collections of Australian Museums
- -Queensland Herbarium
- -National Herbarium of NSW
- -Royal Botanic Gardens and National Herbarium of Victoria
- -Tasmanian Herbarium
- -State Herbarium of South Australia
- -Northern Territory Herbarium
- -Western Australian Herbarium
- -Australian National Herbarium, Canberra
- -University of New England
- -Ocean Biogeographic Information System
- -Australian Government, Department of Defence
- Forestry Corporation, NSW
- -Geoscience Australia
- -CSIRO
- -Australian Tropical Herbarium, Cairns
- -eBird Australia
- -Australian Government Australian Antarctic Data Centre
- -Museum and Art Gallery of the Northern Territory
- -Australian Government National Environmental Science Program
- -Australian Institute of Marine Science
- -Reef Life Survey Australia
- -American Museum of Natural History
- -Queen Victoria Museum and Art Gallery, Inveresk, Tasmania
- -Tasmanian Museum and Art Gallery, Hobart, Tasmania
- -Other groups and individuals

The Department is extremely grateful to the many organisations and individuals who provided expert advice and information on numerous draft distributions.

Please feel free to provide feedback via the **Contact us** page.

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Attachment 4

Threatened Species Summary

Table 1 - Threatened Flora Observations

Species Scientific Name	Common Name	NP&W Act	EPBC Act	Data Source	Date of Last Record	Species Known Habitat Preferences	Likelihood of Use for Habitat
	J	-	40.40	P	LANTS		
Maireana melanocarpa	Black-fruit Bluebush	R		NatureMaps (2024)	02-Jan-2023	Found on sandy rises around salt lakes. SA: LE FR EA (eFlora SA 2007).	Excluded. One (1) observation present 50 km from Project Area. There are no salt lakes present within proximity to the Project Area.
Eriocaulon carsonii ssp. carsonii	Salt Pipewort	E	EN	Nature Maps (2024) Protected Matters Search (2024)	11-Jun-2015	Currently inhabits nine spring complexes in South Australia, twelve in Queensland and one in New South Wales. Occurs in the Bourke, Lake Frome, Lake Eyre and Springvale spring super groups (DCCEEW n.d).	Unlikely. 69 observations within approximately 35 - 45 km from the Project Area. This species requires water. While some ephemeral watercourses are present, due to the age of the last recorded observation is it unlikely that this species will be observed.
Acacia araneosa	Spidery Wattle	E	VU	Nature Maps (2024) Protected Matters Search (2024)	29-Apr-2009	Endemic to SA. The species is restricted to a small area of northern Flinders Ranges in the Vulkathunha–Gammon Ranges National Park and the adjacent Arkaroola Sanctuary. The population is known from approximately 1000 individuals (DSEWPCb, 2013). Preferred habitat is calcareous soil on hillsides	Excluded. Two (2) observations approximately 50 km from the Project Area. Distribution is restricted to a small region within protected area.

Species Scientific Name	Common Name	NP&W Act	EPBC Act	Data Source	Date of Last Record	Species Known Habitat Preferences	Likelihood of Use for Habitat - Comments
						and ridges, associated with dry open woodland of Eucalyptus gillii (Curly Mallee) and Triodia irritans (Spinifex) (Orchard & Wilson 2001). The annual rainfall average is about 200 mm.	
Acacia confluens	Arkaroola Wattle	V		NatureMaps (2024)	18-Sep-2024	Endemic to South Australia occurring in the Northern part of the Flinders Ranges from Mount Lyndhurst eastwards through Arkaroola, Paralana Springs area to the western side of Moolawatana, just into the Lake Eyre region (eFloraSA n.d.). LE, FR and EA regions.	Unlikely. 14 observations occur approximately 50 km from the Project Area. All observations are restricted to habitat noticeably different in structure to the Project Area.
Daviesia stricta	Flinders Ranges Bitter-pea	R		NatureMaps (2024)	25-May- 2012	Distribution: S.Aust: FR, EA, endemic to inland areas of South Australia (eFlora SA 2007). Grows in shrubland on ridge-tops in the Flinders Ranges of South Australia (Atlas of Living Australia n.d.).	Unlikely. One (1) observation is present approximately 40 km from the Project Area. Species is associated with ridge-tops, inconsistent with the topography within the Project Area.
Swainsona leeana	Lee's Swainson- pea	R		NatureMaps (2024)	10-Oct-2010	South Australia regions in LE, FR, and EP (eFloraSA n.d.). Grows in stony soil or clay- loam in dry water courses in scattered locations in the	Unlikely. One (1) observation is present approximately 35 km from the Project Area. The species is associated with dry

Species Scientific Name	Common Name	NP&W Act	EPBC Act	Data Source	Date of Last Record	Species Known Habitat Preferences	Likelihood of Use for Habitat - Comments
						Flinders Ranges and Kati Thanda-Lake Eyre regions of SA (Atlas of Living Australia n.d.).	watercourses, of which there are multiple with the Project Ara. However due to the distance and the age of the last known observation it is unlikely to occur.
Goodenia saccata	Flinders Ranges Goodenia	R		NatureMaps (2024)	21-Sep-2015	Distribution: On stony slopes and creek beds, S.Aust: FR (eFlora SA 2007). Also found in the ranges of the Lake Torrens basin (Atlas of Living Australia n.d.).	Unlikely. Three (3) observations are present approximately 45 km from the Project Area. The species is associated with stony slopes and creek beds, of which are present within the Project Area. However, due to the distance of observations it is unlikely this species would occur.
Codonocarpus pyramidalis	Slender Bell-fruit	E	VU	Nature Maps (2024) Protected Matters Search (2024)	11-Jul-2019	Occurs as scattered individuals across areas of the Flinders Ranges, Northern Lofty Ranges and the eastern regions of South Australia such as within the Murray Darling Basin, Eyre Peninsula, Yorke and Adelaide (DCCEW n.d.). Grows along the crests of hills and ridges, slopes and along creeks, where the soil is either a loamy sand or	Unlikely. 91 observations are present approximately 50 km from the Project Area. Due to the distance of observations it is unlikely this species would occur.

Species Scientific Name	Common Name	NP&W Act	EPBC Act	Data Source	Date of Last Record	Species Known Habitat Preferences	Likelihood of Use for Habitat - Comments
						sandy clay loam with the pH between 8.5-9 (Davies 1995a).	
Abutilon oxycarpum ssp. Prostrate	Flannel Weed – unspecified sub- species		R	NatureMaps (2024)	18-Sep-2024	Abutilon oxycarpum is found naturally on rocky hill slopes, creek banks in dry sclerophyll, and sometimes rainforest, in all Australian states with the exception of Tasmania (Australian Plants Society NSW 2020). Two varieties are known, however habitat requirements for these subspecies is largely undocumented.	One (1) observation is present approximately 50 km from the Project Area. Due to the number and distance of observations it is unlikely this species would occur.
Potamogeton ochreatus	Blunt Pondweed	R		NatureMaps (2024)	23-May- 2012	Occurs in still or flowing water to 4.5 m deep. SA: GT FR EA EP MU SL KI SE. Also from all States. New Zealand (eFlora SA 2007).	Excluded. One (1) observation is present approximately 40 km from the Project Area. Excluded due to species requirement for still or flowing deep water which is not present.
Philotheca angustifolia ssp. angustifolia	Narrow-leaf Wax- flower	R		NatureMaps (2024)	22-May- 2012	Grows in open woodland and mallee in central Victoria and in south-eastern South Australia (iNaturalist n.d.). Occurs in the FR, EP, NL, MU, YP, SL, KI & SE regions of SA On the EP, associated with the Cleve	Unlikely. One (1) observation is present approximately 40 km from the Project Area. Due to the distance of observations from and the lack of suitable



Species Scientific Name	Common Name	NP&W Act	EPBC Act	Data Source	Date of Last Record	Species Known Habitat Preferences	Likelihood of Use for Habitat - Comments
						Hills and the Koppio Hills Woodland environments.	habitat type it is unlikely this species would occur.
Santalum spicatum	Sandalwood	V		NatureMaps (2024)	23-Jun-2016	Once found across the southwest of Australia and inland regions of low rainfall prior to over-harvesting and land-clearing reducing the range and population (Atlas of Living Australia n.d.). This species grows on loam and among rocks in woodland and tall shrubland. It occurs mostly in the southern half of Western Australia and in South Australia (Australian Plants Online, 2003)	Unlikely. One (1) observation is present approximately 50 km from the Project Area. Due to the number and distance of observations it is unlikely this species would occur.
Frankenia plicata	Sea Heath		EN	Protected Matters Search (2024)	Unknown (Species or species habitat known to occur within feature area)	Occurs in South Australia from north of Port Augusta to the Northern Territory border, and from Port Augusta north-east to Maree. Grows in a range of habitats including on small hillside channels, swales of loamy sands to clay. Found in a wide range of vegetation communities that have good drainage (DCCEEW 2008).	Unlikely. NatureMaps records exist around MM 320 along the Strzelecki Track, approximately 49 km from the current Project Area. These records are dated from 1994. No other more recent records exist within proximity to the Project Area, therefore the likelihood of occurrence is considered 'unlikely'.



Table 2 - Threatened Fauna Observations

Species Scientific Name	Common Name	NP&W Act	EPBC Act	Data Source	Date of Last Record	Species Known Habitat Preferences	Likelihood of Use for Habitat - Comments
			1 0000		BIRDS	77.502.30.50	
Amytornis merrotsyi	Short-tailed Grasswren	ssp	ssp	NatureMaps (2024)	19-Sep-2024	Inhabit rocky hillsides and gullies, stony rises and ridge-crests covered with mature spinifex <i>Triodia ssp.</i> grassland, scattered low shrubs and open overstorey of low trees (Christidis et al. 2008 in BirdLife International 2024). Patchily distributed across Southern South Australia.	Unlikely. Nine (9) observations present approximately 40 – 50 km from the Project Area. Despite the recent observation, this species is unlikely to be observed due to the distance of the most recent observation.
Amytornis merrotsyi ssp. merrotsyi	Flinders Ranges Short-tailed Grasswren	V	VU	NatureMaps (2024) Protected Matters Search (2024)	19-Sep-2024	Flinders Ranges subspecies have been reported occurring at approximately 10 sites across their range and there are four main subpopulations: north of Quorn between Dutchman's Stern and Buckaringa and formerly extending to the Ragless Range, in and adjacent to the south-east corner of Ikara-Flinders Ranges National Park; between Black Range and Belton; and in the Gammon Ranges and north of	Unlikely. Seven (7) observations are present approximately 40 – 50 km from the Project Area. Known population is restricted to approximately ten (10) sites. Despite the recent observation, this species is unlikely to be observed due to limited distribution.

Species Scientific Name	Common Name	NP&W Act	EPBC Act	Data Source	Date of Last Record	Species Known Habitat Preferences	Likelihood of Use for Habitat - Comments
						Arkaroola (Landscape South Australia 2022).	
Amytornis modestus	Thick-billed Grasswren		VU	NatureMaps (2024) Protected Matters Search (2024)	28-Aug-2016	The eastern subspecies of the Thick-billed Grasswren occurs in chenopod shrublands (which occur in the arid and semi-arid zones), especially in shrublands dominated by saltbush Atriplex spp. and bluebush Maireana spp., sometimes with widely scattered trees. The eastern subspecies is widespread from the Lake Frome basin, west to the eastern Lake Torrens basin, Northwest to near Leigh Creek and Marree, and along the southern and western fringes of the Lake Eyre Basin, and West to the Coober Pedy region. It has also been recently recorded at two sites northwest of Lake Eyre.	Possible. Six (6) observations are present approximately 10 - 20 km from the Project Area, on the roadside. The associated habitat of this species is consistent with the surrounding area. A search of the Atlas of Living Australia identified the presence of Atriplex and Maireana species within the 50 km buffer, and this was confirmed within the field assessment.
Aphelocephala leucopsis leucopsis	Southern Whiteface		sp	NatureMaps (2024) Protected Matters Search (2024)	10-Nov- 2023	Inhabits open woodlands from near arid habitats, such as Acacia scrub and hummock grassland, through to the wetter grassy woodlands of SE Australia	Possible. Two (2) observations are present approximately 45 km from the Project Area. Given that the most recent observation was in 2023 and

Species Scientific Name	Common Name	NP&W Act	EPBC Act	Data Source	Date of Last Record	Species Known Habitat Preferences	Likelihood of Use for Habitat - Comments
						where Eucalyptus dominates (Department for Environment and Heritage 2008). Occurs across southern and central Australia across most of SA, VIC, and NSW, generally avoiding coastal areas in higher rainfall zones (Department for Environment and Heritage 2008).	the Project Area contains some suitable habitat, it is possible that this species may be encountered.
Emblema pictum	Painted Finch	R		NatureMaps (2024)	22-Sep-2024	Found in arid and semi-arid zones, in rocky areas with spinifex grass cover (Elliott and Christie 2010). Distributed across northern and central Australia.	Unlikely. A single observation is present approximately 45 km from the Project Area. The field assessment did not find habitat consistent with the preferences of the species.
Falco peregrinus macropus	Peregrine Falcon	R		NatureMaps (2024)	23-Sep-2009	Found in most habitats, rainforests to arid zones, and at most altitudes. Sparsely distributed in SA, with most records in Red Gum woodlands (especially near water), in gorges with rock faces along coastal cliffs (Department for Environment and Water 2008).	Unlikely. A single observation is present approximately 45 km from the Project Area. The field assessment confirmed a small amount of Red Gum Woodland, isolated to creek crossings, although none were present in gorges with rock faces.



Species Scientific Name	Common Name	NP&W Act	EPBC Act	Data Source	Date of Last Record	Species Known Habitat Preferences	Likelihood of Use for Habitat - Comments
Falco subniger	Black Falcon	R		NatureMaps (2024)	15-Aug-2010	This species is found along tree-lined watercourses and in isolated woodlands, mainly in arid and semi-arid areas (BirdLife Australia, n.d.).	Possible. One (1) observation of this species is located 20 km from the Project Area. The field assessment confirmed the presence of some tree-lined watercourses that would provide suitable habitat for the species.
Neophema elegans elegans	Elegant Parrot	R		NatureMaps (2024)	27-Aug-2016	Lives in two separate areas: One in the southwest corner of WA and the other in southern Australia from the Flinders Ranges to just over the NSW and Victorian Borders. Lives in open forests, woodlands, mallee, mulga, salt marsh (Birds in Backyards n.d.).	Likely. Three (3) observations are present within 10 – 40 km of the Project Area. The most recent is located on the roadside within 10 km. The presence of the observations on the roadside together with some suitable habitat means that the presence of this species is likely.
Phaps histrionica	Flock Bronzewing	R		NatureMaps (2024)	16-Aug-2013	The Flock Bronzewing is endemic to Australia, occurring mostly in arid, tropical inland areas. The species has a patchy distribution through northwestern WA, centralsouthern Northern Territory, western Queensland, northeastern South Australia and	Unlikely. Two (2) observations approximately 45 km from the Project Area. Preferred habitat type is not thoroughly documented, but the description of arid inland habitat is consistent the environment within the Project Area. However, given

Species Scientific Name	Common Name	NP&W Act	EPBC Act	Data Source	Date of Last Record	Species Known Habitat Preferences	Likelihood of Use for Habitat - Comments
						north-western NSW (National Parks and Wildlife Services 1999).	the age of the last observation and its distance, it is unlikely that this species will be encountered.
Falco hypoleucos	Grey Falcon		VU	Protected Matters Search (2024)	Unknown (Species or Species habitat known to occur within feature area)	The species frequents timbered lowland plains, particularly acacia shrublands that are crossed by tree-lined water courses. The species has been observed hunting in treeless areas and frequents tussock grassland and open woodland, especially in winter (DCCEEW 2022)	Unlikely. Dates of the last known (if any) observation are not available, as the species was not identified through NatureMaps. The habitat present within the Project Area may be suitable for the species, however, given the lack of observations, it is unlikely to be present.
Neophema chrysostoma	Blue-winged Parrot	V	VU	Protected Matters Search (2024)	Unknown (Species or species habitat known to occur within feature area and within area overfly marine area)	This species mainly occurs in Tasmania and Victoria, particularly in southern Victoria and the midlands and eastern areas of Tasmania however sparser populations are also found in western New South Wales and eastern South Australia, extending to south-west Queensland and occasionally into the Northern Territory. Prefers grasslands and grassy woodlands but will inhabit a range of habitats from	Unlikely. NatureMaps shows the species has scattered observations throughout the North East Pastoral region, with the closest record being approximately 60 km south east, recorded in 2021. Given the distance to any previous records, it is unlikely to occur.

Species Scientific Name	Common Name	NP&W Act	EPBC Act	Data Source	Date of Last Record	Species Known Habitat Preferences	Likelihood of Use for Habitat - Comments
						coastal, sub-coastal and inland areas, right through to semi-arid zones (Birdlife Australia n.d.).	
				MA	MMALS		
Macrotis lagotis	Greater Bilby (Bilby)	V	VU	NatureMaps (2024)	12-Dec-2017	Found in a range of habitats from arid rocky soils with little ground cover to semiarid shrublands and woodlands. They are also known to inhabit spinifex and tussock grassland regions. Once common throughout the arid and semi-arid regions of the Australian mainland, however European settlement brought about changes to habitat. Populations are now found within the Tanami Desert of the Northern Territory; in the Great Sandy and Gibson Deserts; parts of the Pilbara and Kimberley (near Broome) regions of western Australia; and the clayey and stony soils of the Mitchell grasslands of southwest Queensland (The Australian Museum 2022).	Unlikely. One (1) observation is present approximately 45 km from the Project Area, however, no suitable habitat within the Project Area.

Species Scientific Name	Common Name	NP&W Act	EPBC Act	Data Source	Date of Last Record	Species Known Habitat Preferences	Likelihood of Use for Habitat - Comments
Notomys fuscus	Dusky Hopping- mouse	V	VU	Nature Maps (2024) Protected Matters Search (2024)	07-Aug-2011	Patchy distribution in the arid areas of south-west Queensland, southern NT, north-east SAS and western NSW. Extensive surveys of suitable habitat (e.g., in the Strzelecki dunefields) confirmed that the species is patchily distributed and highly fragmented. There is a band of suitable habitat between Sturt Desert National Park (NP) through to Strzelecki Regional Reserve (RR) and Cobbler Dunes (DCCEEW n.d.).	Unlikely. No suitable habitat within Project Area.
Petrogale xanthopus xanthopus	Yellow-footed Rock-wallaby	SP	VU	Nature Maps (2024) Protected Matters Search (2024)	02-Jan-2023	In South Australia, colonies persist in the Gawler Ranges, Flinders Ranges and Olary Hills. At least 24 colonies are known to have become extinct in South Australia. Most of these represent at least half of the known colonies in the Olary Hills and Gawler Ranges regions. The main locations in which the Yellow-footed Rock-wallaby currently exists are Flinders Rangers (North, including	Unlikely. 203 observations are present between 20-50 km from the Project Area, mainly restricted to the mountainous area to the south. Considered unlikely to occur due to unsuitable habitat.

Species Scientific Name	Common Name	NP&W Act	EPBC Act	Data Source	Date of Last Record	Species Known Habitat Preferences	Likelihood of Use for Habitat - Comments
						Flinders Range National Park), Flinders Ranges (Central), Gawler Ranges, Olary Ranges (DCCEEW n.d.).	
Pseudomys australis	Plains Rat		VU	Protected Matters Search (2024)	Unknown (Species or species habitat known to occur within feature area)	Habitat that is critical to the survival of the species include large open gypseous cracking clay areas with minor drainage features and depressions within stony gibber plains. Plains mice have also been largely associated with vegetation communities that include, Eucalyptus coolabah (Coolibah) low woodland, Atriplex nummularia (Oldman Saltbush), Maireana aphylla (Cottonbush) / Eragrostis setifolia (Bristly Love-grass) / Astrebla pectinata (Barley Mitchell-grass) / Atriplex vesicaria (Bladder Saltbush) Low Very Open Shrubland and Sclerolaena divaricata (Tangled Bindyi) / Eragrostis Setifolia / Atriplex vesicaria Low Open Shrubland (Brandle 1998).	Unlikely. Closest known records are approximately 55 km from the Project Area, within the Gammon Ranges. Unlikely to occur within the Project Area due to proximity of records.

Species Scientific Name	Common Name	NP&W Act	EPBC Act	Data Source	Date of Last Record	Species Known Habitat Preferences	Likelihood of Use for Habitat - Comments
Morelia spilota	Carpet Python	R		NatureMaps (2024)	29-Sep-2005	Found throughout mainland Australia with the exception of the arid centre and western regions. Widely distributed throughout the forest regions of Southwest Australia. Occurs in a wide variety of habitats, including River Red Gum/Riverbox woodlands of the Murray and Darling Rivers, temperate grasslands with hot, dry weather, and often found near human habitation.	Unlikely. One (1) observation is present approximately 50km from the Project Area. Due to the distance and age of the last known observation it is unlikely this species would occur.

Table 3 – Species Rating Terms

Abbreviation	Meaning			
R	Rare			
V	Vulnerable			
E	Endangered			
ssp	Sub-species			
sp	Unspecified species			

(EPBC Act)					
Abbreviation	Meaning				
R	Rare				
VU	Vulnerable				
EN	Endangered				
ssp	Sub-species				
sp	Unspecified species				