


# Murra Warra Wind Farm

## Operational Environmental Management Plan

13 March 2024

  
**SQUADRON  
ENERGY**

  
murra warra  
WIND FARM

**PLANNING and ENVIRONMENT ACT  
HORSHAM PLANNING SCHEME**

**PERMIT NO. PA1600127B  
Conditions 3, 54 & 55  
ENDORSED PLAN  
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Date: 12 April 2024

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**Revision Control**

Revision	Date	Issue	Author	Reviewed	Approved	Comments
1	07.04.2017	Final/Issued	RES Australia	RES Australia	RES Australia	Final for endorsement
2	26.09.2023	Final Draft	E Chung (ERM)	M Guy (ERM)	B George (ERM)	5-yearly update draft for client review
A	17.11.2023	Final Draft	E Chung (ERM)	M Guy (ERM)	J Luk (ERM)	Final for endorsement
B	28.11.2023	Final Draft	E Chung (ERM)	M Guy (ERM)	J Luk (ERM)	Final for endorsement with minor updates
C	13.03.2024	Final/Issued	E Chung (ERM)	A Scarpaci (ERM)	J Luk (ERM)	Final for endorsement with updates from Project Owner (Squadron Energy)

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**ACRONYMS AND ABBREVIATIONS**

<b>Name</b>	<b>Description</b>
<b>CFA</b>	Country Fire Authority
<b>CHMP</b>	Cultural Heritage Management Plan
<b>DELWP</b>	Department of Environment, Land, Water and Planning (Victoria) (now DEECA)
<b>DEECA</b>	Department of Energy, Environment and Climate Action (Victoria)
<b>DEDJTR</b>	Department of Economic Development, Jobs, Transport and Resources (Victoria) (now DEECA)
<b>DPI</b>	Department of Primary Industries (Victoria) (now DEECA – Agriculture Victoria)
<b>DTP</b>	Department of Transport and Planning (Victoria)
<b>EPA</b>	Environment Protection Authority (Victoria)
<b>ERM</b>	Environmental Resources Management Pty Ltd
<b>FP-SR</b>	First Peoples – State Relations
<b>LGA</b>	Local Government Area
<b>MWWF</b>	Murra Warra Wind Farm
<b>MW1</b>	Murra Warra 1
<b>MW2</b>	Murra Warra 2
<b>OEMP</b>	Operational Environmental Management Plan
<b>O&amp;M</b>	Operation and Maintenance
<b>RES</b>	RES Australia Pty Ltd
<b>SQE</b>	Squadron Energy
<b>The Project</b>	Murra Warra Wind Farm
<b>WTGs</b>	Wind Turbine Generators

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# 1 Introduction

## 1.1 Purpose and Scope of this OEMP

This Operational Environmental Management Plan (OEMP) has been prepared to satisfy the requirements of the Planning Permits issued for the Murra Warra Wind Farm (MWWF). This OEMP is the overarching environmental management plan for the MWWF and sets out the environmental management strategies applicable to the MWWF during operation and maintenance phases of the MWWF.

This OEMP has been prepared for the operation and maintenance phase of the MWWF. Prior to commencing the decommissioning phase, this OEMP will be revised to ensure that it is relevant to the decommissioning phase activities, and that it reflects changes in environmental management standards and techniques.

MWWF was developed and constructed in two stages - known as Murra Warra 1 (MW1) and Murra Warra 2 (MW2). The two stages are now in operation and are independent of each other in many respects. The Project's planning permits, however, were granted to the overall facility (MW1 and MW2); hence this OEMP is applicable to both stages.

All persons involved in the operation and maintenance phase of the MWWF shall undertake their respective activities in accordance with the relevant requirements of the OEMP, this includes employees, contractors, and sub-contractors. Awareness of relevant requirements shall be included within a site-specific health, safety, and environment induction and / or through other appropriate forums such as toolbox talks.

## 1.2 Objectives of this Management Plan

The primary objective of the OEMP is to provide a framework of procedures to avoid or minimise the impacts of the operation and maintenance of MWWF on the environment.

Further objectives of this OEMP include:

- Provide for the effective management of the environmental concerns and potential adverse environmental effects arising from MWWF;
- Describe management responsibilities and define reporting requirements;
- Implement a system for compliance with all applicable requirements, obligations, and commitments for MWWF including:
  - Obligations and commitments from the environmental assessment process;
  - Adhere to relevant legislative requirements;
  - Adhere to licences, approvals and/or permits needed to operate the MWWF; and
  - Develop, implement, and monitor measures that minimise pollution and optimise resource use.
- Establish a system to test the effectiveness of environmental management measures, by way of audits and inspections.

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## 2 Project Overview

### 2.1 Project Location and Site Description

The MWWF comprise 4,250 ha of land located within the Kewell, Blackheath and Murra Warra districts. The MWWF is located in the Wimmera region approximately 25 km north of Horsham and 15 km south of Warracknabeal. The entirety of the MWWF site is located on agricultural land which has been heavily cleared, and the predominant activity that remains are broad acre cropping and grazing. Figure 2-1 shows the MWWF site location.

### 2.2 Project Staging and Operating Structure

MWWF was constructed and is now operated in two Stages – MW1 (Figure 2-1) and MW2 (Figure 2-3). Table 2-1 provides details about the development and operation of each Stage, including the operating structure. The entities occasionally change due to commercial reasons.

The Primary Entity has fundamental responsibility for compliance with legislative and permit requirements. The Asset Manager and Operation & Maintenance (O&M) Contractor are contractually engaged by the Primary Entity. The O&M Contractor performs all onsite work associated with operation and maintenance of the wind turbines and other equipment. The Asset Manager oversees all aspects of the operation of the MWWF, including management of the O&M Contractor.

All entities are responsible for meeting the requirements of this Plan. The requirements are passed down from the Primary Entity via contract arrangements. The Asset Manager monitors the O&M Contractor's compliance with the requirements.

**Table 2-1 Staging and Operational Structure – MW1 & MW2**

Detail	MW1	MW2
Asset Owner	Squadron Energy	Squadron Energy
Primary Entity	Murra Warra Project Co as trustee for Murra Warra Project Trust	Murra Warra II Project Co as trustee for Murra Warra II Project Trust
Asset Manager	RES Australia	RES Australia
Operations and Maintenance (O&M) Contractor	Siemens Gamesa Renewable Energy	General Electric
No. of turbines	61	38
Construction Period	2017 – 2019	2020 - 2022
Turbine model	Senvion 3.7M 144, 139mHH	GE 5.5-158, 141mHH

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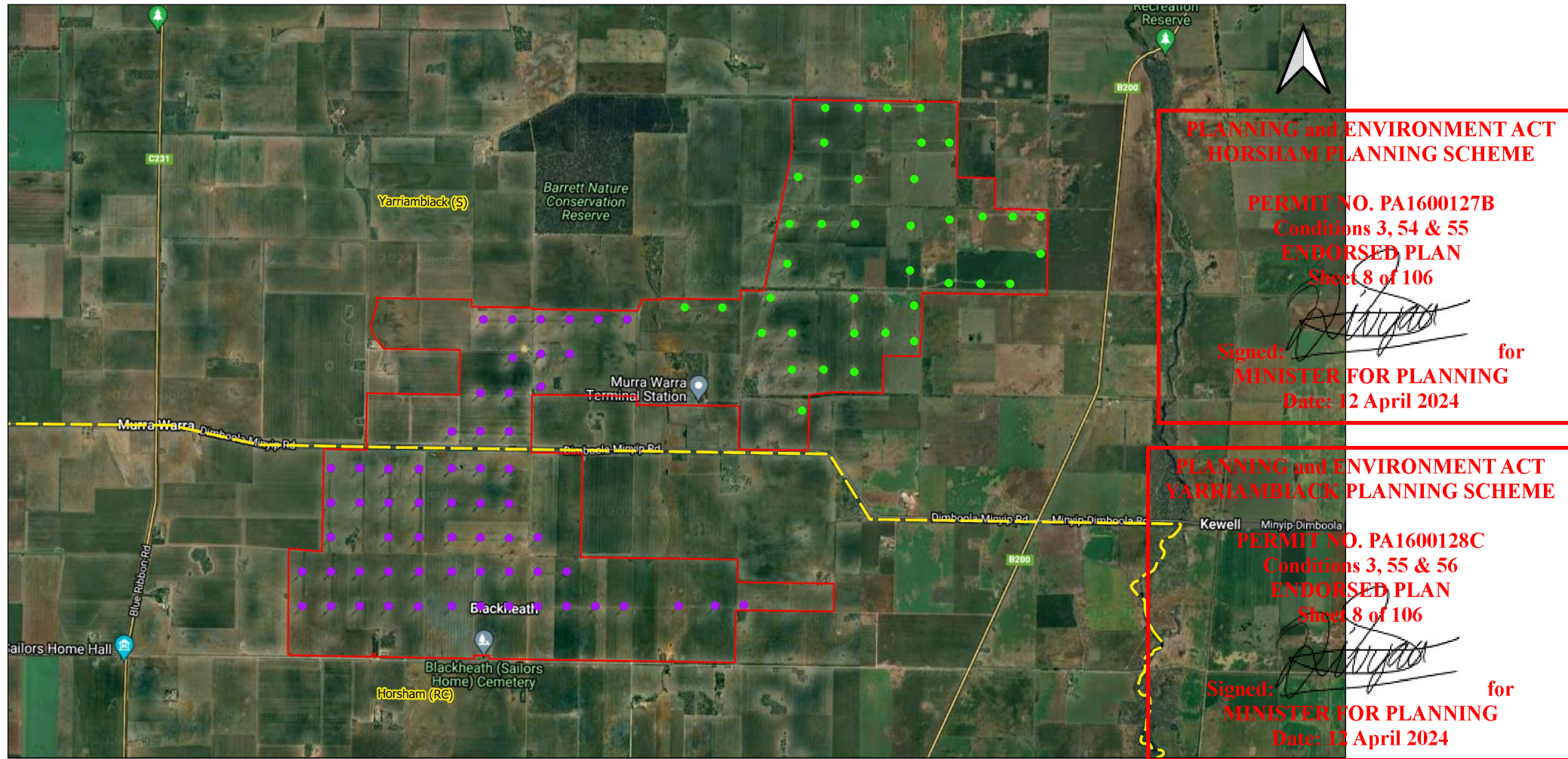
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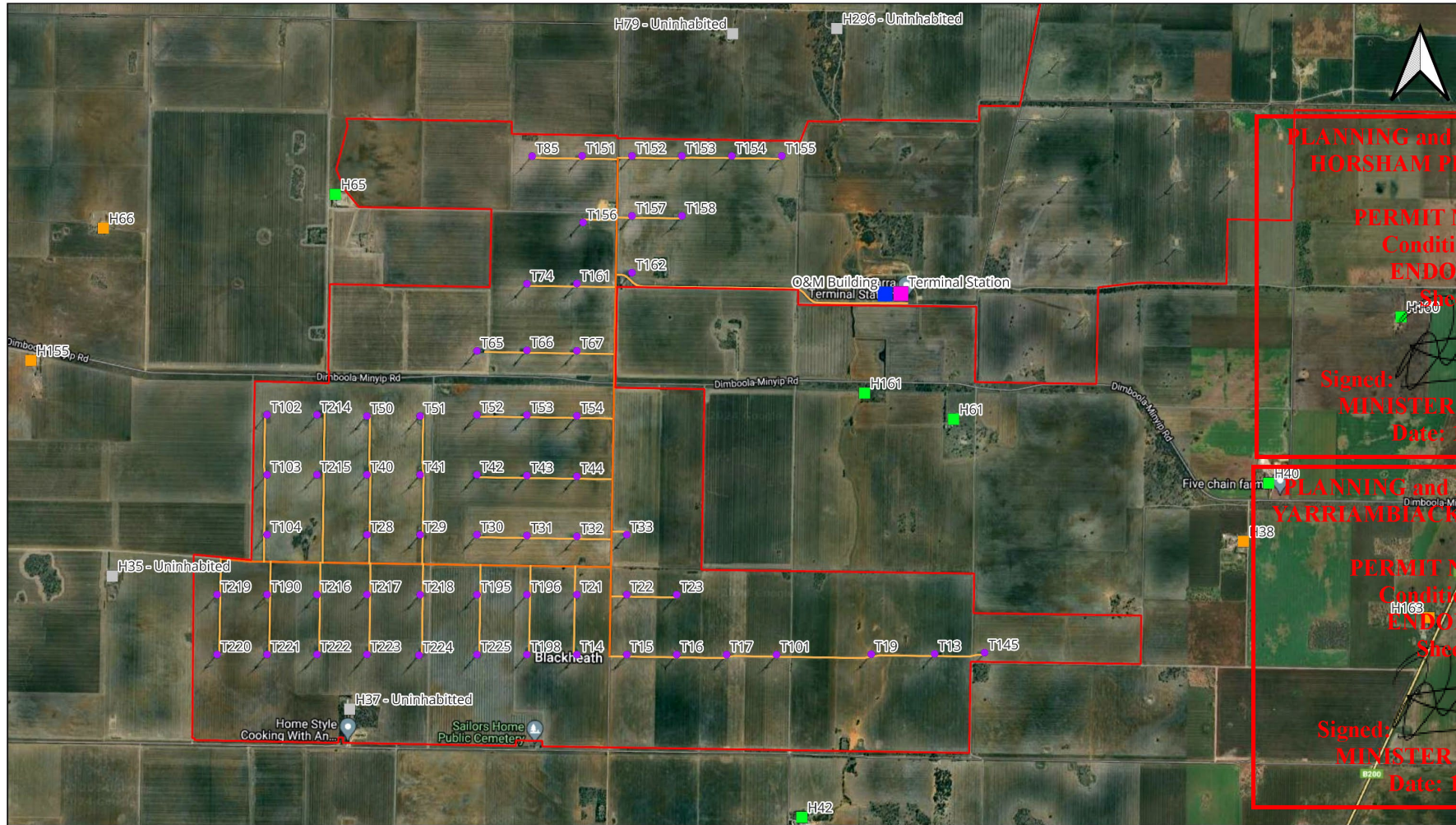
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<p>Legend</p> <ul style="list-style-type: none"> <li><span style="border: 1px solid red; display: inline-block; width: 15px; height: 10px; margin-right: 5px;"></span> MWWF Site Boundary</li> <li><span style="color: purple; font-size: 12px; margin-right: 5px;">●</span> MW1 Turbines</li> <li><span style="color: green; font-size: 12px; margin-right: 5px;">●</span> MW2 Turbines</li> <li><span style="border-bottom: 2px dashed yellow; width: 20px; margin-right: 5px;"></span> Local Government Area boundary</li> </ul>	Company <b>Murra Warra Project Co Pty Ltd</b>				
	Title <b>Site Location - Murra Warra Wind Farm</b>				
Date	Projection	Drawing No	Rev	Ver	
15 FEB 2024	GDA 94 Zone 54	MWWF-001	A	1	
Drawn By	Checked By	Sheet	Proj Code	Size	
A Gordijn	C Gulvin	1 OF 1	MWWF	A3	

Figure 2-1 Murra Warra Wind Farm - Site Location





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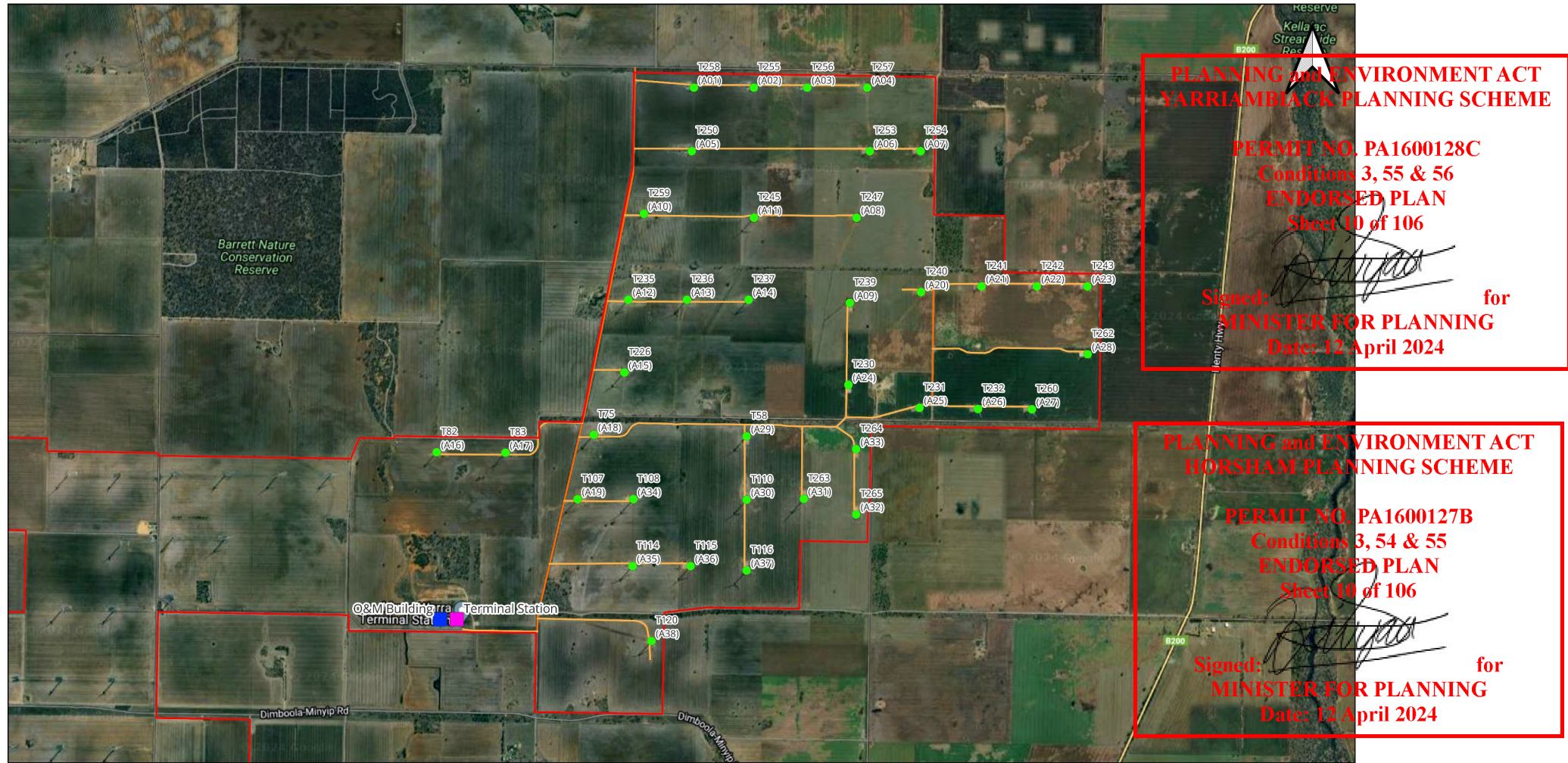
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<b>LEGEND</b> Site Boundary (Red outline) MW1 Turbines (Purple dot) Access roads (existing) (Orange line) Access roads (internal) (Yellow line) MWWF Operations & Maintenance Building (Blue square) MWWF Terminal Station (Pink square) Receiver - Associated (Green square) Receiver - Non-Associated (Orange square) Receiver - Non-Associated (Uninhabited) (Grey square)	Company Murra Warra Project Co Pty Ltd				
	Title Murra Warra 1 Wind Farm - Site Layout				
Date 16 FEB 2024	Projection GDA94 Zone54	Drawing No MWWF-002	Rev A	Ver 1	
Drawn By A Gordijn	Checked By C Gulvin	Sheet 1 OF 1	Proj Code MWWF	Size A3	

Figure 2-2 Murra Warra 1 Wind Farm - Site Layout



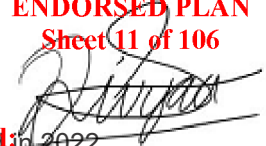


Legend		
<span style="border: 1px solid red; display: inline-block; width: 10px; height: 10px;"></span> Site Boundary	<span style="display: inline-block; width: 10px; height: 10px; background-color: blue;"></span> MWWF Operations & Maintenance Building	<span style="display: inline-block; width: 10px; height: 10px; background-color: green;"></span> Receiver - Associated
<span style="color: green;">●</span> MW2 Turbines	<span style="display: inline-block; width: 10px; height: 10px; background-color: orange;"></span> Receiver - Non-Associated	<span style="display: inline-block; width: 10px; height: 10px; background-color: grey;"></span> Receiver - Non-Associated (Uninhabited)
<span style="color: orange;">—</span> Access roads (existing)	<span style="color: yellow;">—</span> MWWF Terminal Station	
<span style="color: yellow;">—</span> Access roads (internal)		

Company		Murra Warra Project Co Pty Ltd			
Title		Murra Warra 2 Wind Farm - Site Layout			
Date	19 FEB 2024	Projection	GDA94 Zone54	Drawing No	MWWF-003
Rev	A	Ver	1	Proj Code	MWWF
Size	A3	Sheet	1 OF 1	Checked By	C Gulvin
Drawn By	A Gordijn				

Figure 2-3 Murra Warra 2 Wind Farm - Site Layout

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### 2.3 Construction Activities (completed)

Construction of MW1 was completed in 2019, and construction of MW2 was completed in 2022.

The MWWF involved the construction of:

- 99 wind turbine generators (**WTGs**) and their associated footings and foundations, where 53 WTGs are located within the Yarriambiack Local Government Area (**LGA**) and 46 WTGs are located within the Horsham LGA with a combined total generation capacity of 434.7 megawatts;
- New and upgraded access tracks;
- Up to four permanent anemometry masts;
- Approximately 75 km of underground cabling;
- Approximately 18 km of overhead cabling and up to two intermediate collector stations;
- Terminal station and connection to AusNet Services' 220 kV high voltage transmission line located in the centre of the site;
- Operations and maintenance facility; and
- Temporary construction compound, concrete batching plant(s) and laydown areas - these facilities were removed, and the areas rehabilitated, upon completion of construction.

### 2.4 Operation and Maintenance Activities

The operational life of the MWWF is to be around 25 years. The key operation and maintenance activities to be undertaken during operation of the MWWF are:

- Scheduled turbine maintenance;
- Unscheduled turbine repairs and maintenance;
- Maintenance of the electrical reticulation system;
- Maintenance of operation and maintenance facilities and buildings; and
- Ongoing maintenance of access tracks.

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The HV connection to the 220 kV transmission line is maintained by AusNet Services.

Day to day monitoring and maintenance of systems and wind farm facilities is carried out by O&M Contractor staff located on site with some monitoring being carried out remotely.

Replacement or repair to turbine components (e.g. blades, nacelle, gearbox, main bearing etc) will be required at times. The types of activities and equipment required would include, but not be limited to:

- Preparation and repair works within the turbine tower and nacelle, which may include use of hand tools and equipment;
- Large crane to lift/ lower turbine components (e.g. nacelle, blades, gearbox etc);
- Support cranes to build / dismantle the larger crane; and
- Transport trucks associated with crane delivery, transport of materials and components to / from site (where required).

Measures to manage the environmental aspects of turbine maintenance programs (e.g. traffic, noise) are covered within this OEMP, the OEMP subplans and other relevant standalone Plans as detailed in Section 4.

## 2.5 Decommissioning Activities

The operational life of the MWWF is to be around 25 years, after which the facility may be decommissioned and removed or, subject to a further planning application if required, repowered with new turbines.

Decommissioning activities would include removal of all turbines and above ground infrastructure (including foundations to 1 m below surface level), with the exception of access tracks and entrances where required for the benefit of landowners and any shared network substation building, as required by the Network Service Provider. All subsurface infrastructure at the site would remain buried to plough depth (approximately 1 m below surface level).

Following decommissioning, the land would be rehabilitated to allow for agricultural purposes.

Prior to commencing the decommissioning phase, this OEMP will be revised to ensure that it appropriately identifies all decommissioning phase risks and issues, and provides a suite of associated environmental management measures which reflect the environmental standards and techniques applicable at that time.





### 3 Environmental Management Framework

#### 3.1 Environmental Management System

The OEMP is structured to be consistent with SQE Certified ISO 14001:2015 *Environmental Management Systems*. The OEMP comprises an overall document and a series of subplans. The main body of the document details the environmental management measures that relate to the overall Project, while the subplans identify environmental management measures that are specific to individual environmental aspects.

Specific procedures are referenced in the OEMP where appropriate.

The environmental management systems that apply to MWWF are generally structured in accordance with ISO14001:2015’s process of Plan-Do-Check-Act as depicted in Figure 3-1.

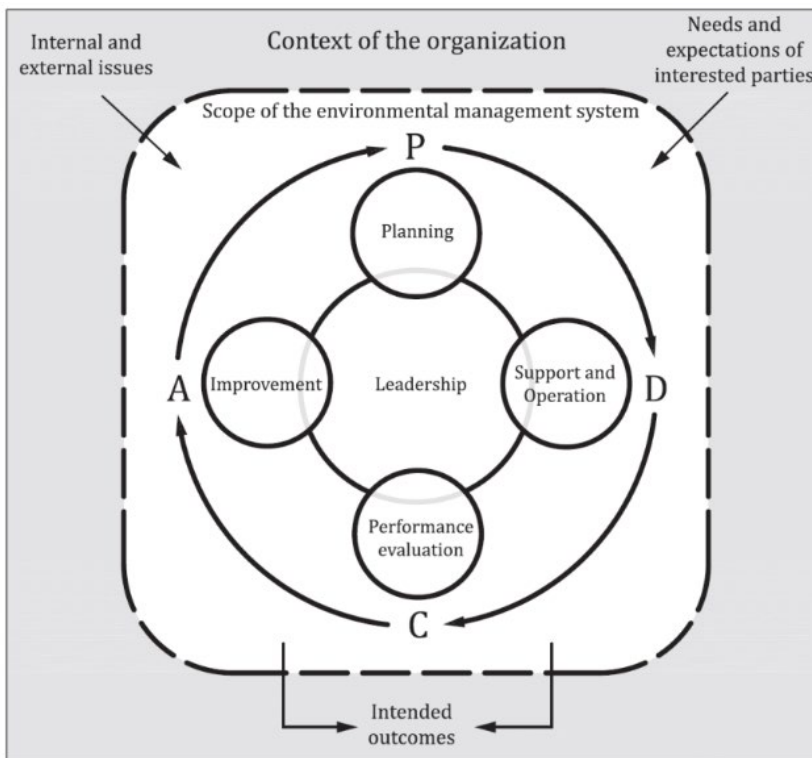


Figure 3-1 ISO14001:2015 Plan-Do-Check-Act extract.

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#### 3.2 Environmental Policy

Project activities will be undertaken in accordance with the relevant principles of the Squadron Energy Environmental Policy (SQE-02-POL-022).

**SQE Environmental Policy Statement:** *SQE is committed to minimising environmental impacts in addition to the principles of ecologically sustainable development to ensure the protection and preservation of the environment for current and future generations.*

This OEMP reflects the commitments of the SQE Environmental Policy by:

- Establishing the environmental management framework for the project;
- Identification of the relevant legal and regulatory requirements;

- Identification of environmental aspects/ issues and associated management measures;
- Communication of the policy intent to the workforce through induction, display on notice boards and at Project meetings;
- Establishing monitoring processes (inspections and audits);
- Establishing a process for regular review of the OEMP to ensure its suitability and effectiveness;
- Provision of resources to implement and maintain the OEMP.

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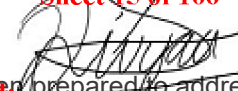
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## 4 Environmental Plans & Programs

In addition to this OEMP, a range of environmental Sub-plans and Programs have been prepared to address specific environmental issues relevant to the operation of the MWWF, and in some cases to satisfy requirements of the Planning Permits PA1600127B, PA1600128C and PA1600129..

The plans identify potential impacts of each significant aspect and outline the physical and management safeguards, mitigation measures, responsibilities, and monitoring requirements to be implemented to minimise potential impacts on the environment.

The Plans and Programs relevant to the MWWF are summarised in below in Table 4-1, along with their location reference.

**Table 4-1 Plans and programs relevant to MWWF operations**

Permit Condition	Plan / Program name	Description	Location reference
39	Operational Environmental Management Plan	The plan is the overarching management plan for MWWF and has been revised specifically for the Operations and Maintenance phase of the MWWF.	This document
7	On-Site Landscaping Plan	The Plan, prepared in 2017, sets out the on-site landscaping that has been undertaken to screen the permanent maintenance facility, switchyard and associated buildings (other than turbines). The Plan contains a maintenance and monitoring program to ensure the ongoing health of the landscaping.	Standalone document
16	Complaints Investigation and Response Plan	The Plan provides a procedure for investigating and responding to complaints made in relation to the MWWF.	Standalone document
30	Aviation Lighting Maintenance Plan	The Plan was prepared in 2021 to outline the maintenance requirements for the aviation obstacle lighting installed within MW2.	Standalone document
31 & 32	Aviation Obstacle Lighting plan	The Plan was prepared in 2017 and specifies the six (6) turbines that require aviation obstacle lighting within MW2. There are no aviation obstacle lights within MW1.	Standalone document
35	Traffic Management	The Standalone Traffic Management Plan has been sunsetted, as it related primarily to the pre-construction and construction phases of the development.  Traffic management measures relevant to the MWWF operations and maintenance phase have been incorporated into this OEMP.	OEMP Section 6.2.4
43	Sediment, Erosion, and Water Quality Management Plan	The Plan details the procedures to ensure that silt from batters, cut-off drains, table drains, and road works is retained on the site after construction and replaced as soon as possible.	OEMP Appendix A, Subplan A
44	Dust Management	The Standalone Dust Management Plan has been sunsetted, as it related primarily to the construction phase of the development.  Measures to manage dust emissions are now incorporated within this OEMP.	OEMP Section 6.2.2
47	Hydrocarbon and Hazardous Substances Plan	The Plan details procedures for the storage and handling of hydrocarbons and hazardous substances and contingency measures to be implemented in the event of a loss of containment.	OEMP Appendix A, Subplan B

Permit Condition	Plan / Program name	Description	Location reference
48	Fire Prevention and Emergency Response Plan	The Plan details the procedures for vegetation management, fuel control and the provision of firefighting equipment during declared fire danger periods.  The Plan covers emergency procedures familiarisation sessions for new personnel on a regular basis and/or as required.	OEMP Appendix A, Subplan C
49	Blasting Management Plan	A risk control plan used for explosive blasting to ensure blasts do not harm people in the area and limit damage to the environment.	Sunsetted and removed as no blastings are proposed for operations.
50 (1600128C)	Quarry Management Plan	A Plan that includes potential risks and impacts from quarry activities and describes procedures to limit impact on the environment and local amenity.	Sunsetted and removed as no use of quarries are proposed for operations.
50 (1600127B) 51 (1600128C)	Biosecurity Management Plan	The Plan describes procedures for preventing the spread of noxious and invasive plants around the site and in the wider environment.	OEMP Appendix A, Subplan D
51 (1600127B) 52 (1600128C)	Training Program	Details of the environmental inductions, awareness training and toolbox training that is provided at MWWF.	OEMP Section 7.2
52 (1600127B) 53 (1600128C)	Reporting Program	Details the reporting program for MWWF, including monthly environmental reporting requirements.	OEMP Section 10.5
53 (1600127B) 54 (1600128C)	Implementation Timetable	A delivery schedule to summarise the proposed action, frequency, responsibility of monitoring and actioning environmental matters associated to the MWWF.	OEMP Section 7.4
56 (1600127B) 57 (1600128C)	Bats and Avifauna Management Plan	The Plan provides a strategy for managing and mitigating any significant bird and bat strike arising from the MWWF operations.	Standalone document
68 (1600127B) 69 (1600128C)	Native Vegetation Management Plan	The Plan includes details of the native vegetation that is required to be retained on the site.	Standalone document
Not applicable	Cultural Heritage Management Plan	The Plan (prepared voluntarily) provides an assessment or cultural heritage constraints and provides management measures for the salvage and protection of cultural heritage values at MWWF.	Standalone document
Not applicable	Operational Noise Management Plan	Operational Noise Management Plans have been developed for MW1 and MW2,  The Plans detail the procedures to control and mitigate noise nuisance from the operation of the project to neighbouring residences.	Standalone document

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## 5 Statutory Context

### 5.1 Planning Permits

In total, the Project has three Planning Permits, as described in Table 5-1.

**Table 5-1 Planning Permits for the Murra Warra Wind Farm**

Planning Permit	Date	Planning Scheme	Responsible Authority	Description
PA1600127B	15/02/2023	Horsham	Minister for Planning	Development and use of land for a wind energy facility and associated buildings and works, removal of native vegetation and business identification signage.
PA1600128C	15/02/2023	Yarriambiack	Minister for Planning	Development and use of land for a wind energy facility and associated buildings and works, removal of native vegetation and business identification signage.
PA1600129	21/11/2016	Yarriambiack	Minister for Planning	Use and development of land for a utility installation (substation) and business identification signage.

PA1600127B and PA1600128C are identical in terms of conditions relating to this OEMP, however PA1600128C includes conditions associated with the quarry (Condition 50) which is no longer applicable to the operational phase of the Project.

This OEMP has been prepared in order to satisfy the conditions of the three Planning Permits. In this respect, it has been taken that an OEMP which complies with the requirements of Permits PA1600127 and PA1600128 will be satisfactory for the purposes of PA1600129.

### 5.2 Additional Environmental Approval requirements

The key environmental approval and permit requirements are outlined in Table 5-2 below. Copies of all project approvals, licences and permits are to be kept on site in an Approvals Register that will be updated as required.

**Table 5-2 Environmental Approvals**

Environmental Aspect	Statutory Authority	Approval / Permit Required
Contaminated Materials and Waste	EPA Victoria	EPA licensed vehicles required for waste or contaminated material removal (including weed infested material).
Fire	Country Fire Authority (CFA)	During the Fire Danger Season for hot-works (on Total fire ban days).
Noise and Vibration	EPA Victoria	No permit required.
Native Fauna	DEECA	Protected native fauna on site that requires translocation will require a permit under the Wildlife Act 1975 (Vic).
Aboriginal Cultural Heritage	First Peoples – State Relations (FP-SR) Registered Aboriginal Party – Barengi Gadjin Land Council	Voluntary CHMP prepared and recommendations fulfilled for the duration of the Project.

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Environmental Aspect	Statutory Authority	Approval / Permit Required
Water Quality	Wimmera Catchment Management Authority	Permit required for activities affecting a watercourse. Permit required for the release of water in waterways/stormwater systems.
Air Quality	EPA Victoria	No permit required.
Hazardous Materials and Storage	EPA Victoria	Licence is required for the storage and handling of dangerous goods in accordance with the <i>Dangerous Goods (Storage and Handling) Regulations 2022</i> .

### 5.3 Applicable Legislation

Key legislation, policy requirements and guidelines relevant to the Project are listed in Table 5-3 below.

Table 5-3 Legislation, policies and guidelines

Topic	Legislation, policies, and guidelines
Aboriginal Cultural Heritage and Historic Heritage	<p><u>Commonwealth:</u></p> <ul style="list-style-type: none"> <li>Environment Protection and Biodiversity Act 1999.</li> <li>Environment Protection and Biodiversity Regulations 2000.</li> <li>Aboriginal and Torres Strait Islander Heritage Protection Act 1984.</li> <li>Native Title Act 1993.</li> </ul> <p><u>State:</u></p> <ul style="list-style-type: none"> <li>Aboriginal Heritage Act 2006.</li> <li>Aboriginal Heritage Regulations 2007.</li> <li>Heritage Act 2017.</li> <li>Planning &amp; Environment Act 1987.</li> </ul>
Contamination and Hazardous Materials	<p><u>State:</u></p> <ul style="list-style-type: none"> <li>Environment Protection Act 2017.</li> <li>Environment Protection (Industrial Waste Resource) Regulations 2009.</li> <li>Dangerous Goods Act 1985.</li> <li>Dangerous Goods (Storage and Handling) Regulations 2022.</li> <li>Policy and Planning Guidelines for Development of Wind Energy Facilities in Victoria (Department of Environment, Land, Water &amp; Planning (now Department and Transport and Planning), 2021).</li> <li>Australian Dangerous Goods Code Edition 7.8 (National Road Transport Commission, 2022).</li> <li>EPA Publication 1915 – Contaminated land policy.</li> <li>EPA Publication 1968 – Liquid storage and handling guidelines.</li> </ul>
Environmental Impact Assessment	<p><u>Commonwealth:</u></p> <ul style="list-style-type: none"> <li>Environment Protection and Biodiversity Act 1999. Note: the Project referral decision was “not a controlled action” and therefore no EPBC Approval has been required.</li> </ul> <p><u>State:</u></p> <ul style="list-style-type: none"> <li>Environment Effects Act 1978.</li> </ul>
Fire Prevention and Protection	<p><u>State:</u></p> <ul style="list-style-type: none"> <li>Occupational Health and Safety Act 2004.</li> <li>Dangerous Goods Act 1985.</li> <li>Dangerous Goods (Storage and Handling) Regulations 2022.</li> <li>Electricity Safety (Bushfire Mitigation Regulations) 2023.</li> </ul>

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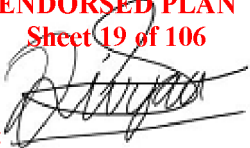
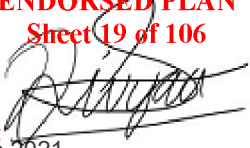
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Topic	Legislation, policies, and guidelines	<p style="text-align: center;"><b>PLANNING and ENVIRONMENT ACT YARRIAMBIACK PLANNING SCHEME</b></p> <p style="text-align: center;"><b>PERMIT NO. PA1600128C</b>  <b>Conditions 3, 55 &amp; 56</b>  <b>ENDORSED PLAN</b>  <b>Sheet 19 of 106</b></p> <p style="text-align: center;">Signed:  for  <b>MINISTER FOR PLANNING</b>  <b>Date: 12 April 2024</b></p>
<p><b>Flora and Fauna (including weed prevention)</b></p>	<p><u>Commonwealth:</u></p> <ul style="list-style-type: none"> <li>Environment Protection and Biodiversity Act 1999.</li> </ul> <p><u>State:</u></p> <ul style="list-style-type: none"> <li>Catchment and Land Protection Act 1994.</li> <li>Fisheries Act 1995.</li> <li>Flora and Fauna Guarantee Act 1988.</li> <li>Planning and Environment Act 1987.</li> <li>Wildlife Act 1975.</li> <li>Conservation, Forests and Land Act 1987.</li> <li>Policy and Planning Guidelines for Development of Wind Energy Facilities in Victoria (Department of Environment, Land, Water &amp; Planning (now Department and Transport and Planning), 2021).</li> <li>Victoria’s Native Vegetation Management – A Framework for Action (Department of Sustainability and Environment (now Department of Energy, Environment and Climate Action), 2002).</li> <li>The Victorian Serrated Tussock Working Party (VSTWP) Best Practice Serrated Tussock Weed Hygiene Guide (available at <a href="http://agriculture.vic.gov.au/">http://agriculture.vic.gov.au/</a>).</li> <li>Wimmera Invasive Plant and Animal Management Strategy (Wimmera Catchment Management Authority, 2019).</li> </ul>	
<p><b>Incident Management</b></p>	<p><u>State:</u></p> <ul style="list-style-type: none"> <li>Occupational Health and Safety Act 2004.</li> <li>Planning and Environment Act 1987.</li> <li>Environment Protection Act 2017.</li> </ul>	<p style="text-align: center;"><b>PLANNING and ENVIRONMENT ACT HORSHAM PLANNING SCHEME</b></p> <p style="text-align: center;"><b>PERMIT NO. PA1600127B</b>  <b>Conditions 3, 54 &amp; 55</b>  <b>ENDORSED PLAN</b>  <b>Sheet 19 of 106</b></p> <p style="text-align: center;">Signed:  for  <b>MINISTER FOR PLANNING</b>  <b>Date: 12 April 2024</b></p>
<p><b>Noise and Vibration</b></p>	<p><u>State:</u></p> <ul style="list-style-type: none"> <li>Occupational Health and Safety Act 2004.</li> <li>Public health and Wellbeing Act 2008.</li> <li>Environment Protection Act 2017.</li> <li>Environment Protection Amendment (Wind Turbine Noise) Regulations 2021.</li> <li>Policy and Planning Guidelines for Development of Wind Energy Facilities in Victoria (Department of Environment, Land, Water &amp; Planning (now Department and Transport and Planning), 2021).</li> <li>NZS6808 Acoustics – Wind farm noise.</li> <li>EPA Publication 1826.4 – Noise limit and assessment protocol for the control of noise from commercial, industrial and trade premises and entertainment venues.</li> </ul>	
<p><b>Soil</b></p>	<p><u>State:</u></p> <ul style="list-style-type: none"> <li>Environment Protection Act 2017.</li> <li>Environment Protection (Prescribed Waste) Regulations 1998.</li> <li>Catchment and Land Protection Act 1994.</li> </ul>	
<p><b>Waste</b></p>	<p><u>State:</u></p> <ul style="list-style-type: none"> <li>Environment Protection Act 2017.</li> <li>EPA Publication 1990.1 – Managing industrial waste – Your duties as a waste producer (July 2021).</li> </ul>	
<p><b>Water</b></p>	<p><u>State:</u></p> <ul style="list-style-type: none"> <li>Environment Protection Act 2017.</li> <li>Planning and Environment Act 1987.</li> <li>Catchment and Land Protection Act 1994.</li> <li>Water Act 1989.</li> <li>Policy and Planning Guidelines for Development of Wind Energy Facilities in Victoria (Department of Environment, Land, Water &amp; Planning (now Department and Transport and Planning), 2021).</li> </ul>	

Topic	Legislation, policies, and guidelines
	<ul style="list-style-type: none"> <li>EPA Publication 840.2 – The cleanup and management of polluted groundwater.</li> </ul>
<b>Traffic</b>	<p><u>State:</u></p> <ul style="list-style-type: none"> <li>Road Management Act 2004.</li> <li>Policy and Planning Guidelines for Development of Wind Energy Facilities in Victoria (Department of Environment, Land, Water &amp; Planning (now Department and Transport and Planning), 2021).</li> <li>Heavy Vehicle National Law Application Act 2013</li> </ul>

## 5.4 Government Authorities and Stakeholders

The key stakeholders for the environmental aspect of the MWWF are State and Local Government departments as well as other statutory authorities that are primarily responsible for issuing relevant environmental approvals and permits.

The Site Supervisor and relevant members of the MWWF Project team shall continue to liaise with these stakeholders to ensure that all legislative and statutory requirements are met.

The key stakeholders for the MWWF includes:

- Department of Energy, Environment and Climate Action (**DEECA**);
- Department of Transport and Planning (**DTP**);
- EPA Victoria;
- Barengi Gadjin Land Council;
- Horsham Rural City Council;
- Yarriambiack Shire Council;
- Wimmera Catchment Management Authority;
- Civil Aviation Safety Authority;
- VicRoads; and
- Country Fire Authority (CFA).

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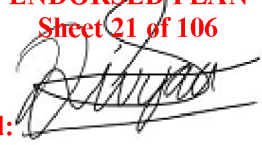
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# 6 Environmental Risks, Issues and Management Measures

## 6.1 Environmental Risk Management

A Project Environmental Risk Register is maintained for the MWWF to identify the operation and maintenance activities undertaken on the site, potential environmental impacts associated with those activities, and controls to reduce the residual risks to an acceptable level. The Risk Register is saved on the project SharePoint.

Ongoing environmental risk review and management will be in accordance with the SQE Risk Management Policy (SQE-00-POL-002) and Risk Management Process (SQE-00-PRC-002).

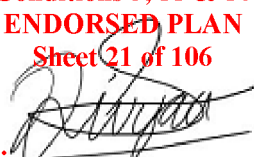
## 6.2 Key Environmental Issues & Management Measures

Table 6-1 identifies the key environmental aspects / issues and provides a reference to the relevant Plan or Chapter containing the associated management measures.

**Table 6-1 Summary of Environmental Issues and Management Measures**

<b>Environmental Issue</b>	<b>Management Measure</b>	<b>Location Reference</b>
<b>Sediment, erosion, water quality</b>	Sediment, Erosion and Water Quality Management Plan (ERM, 2023)	Appendix A, Subplan A
<b>Hydrocarbons, hazardous substances</b>	Hydrocarbon and Hazardous Substances Management Plan (ERM, 2023)	Appendix A, Subplan B
<b>Bushfire and emergency</b>	Fire Prevention and Emergency Response Plan (ERM, 2023)	Appendix A, Subplan C
<b>Biosecurity</b>	Biosecurity Management Plan (ERM, 2023)	Appendix A, Subplan D
<b>Bats and avifauna strike</b>	Bat and Avifauna Management Plan (Biosis, 2017)	Standalone Plan
<b>Native vegetation protection</b>	Native Vegetation management Plan (Biosis, 2017)	Standalone Plan
<b>Aboriginal Cultural heritage</b>	Cultural Heritage Management Plan (Archaeology At Tardis, 2017)	Standalone Plan
<b>Operational turbine noise</b>	Murra Warra Wind Farm Stage 1 Operational Noise Management Plan (AECOM, 2023) Murra Warra Wind Farm Stage 2 Operational Noise Management Plan (AECOM, 2023)	Standalone Plan
<b>Waste</b>	Addressed in this OEMP	OEMP Section 6.2.1
<b>Dust</b>	Addressed in this OEMP	OEMP Section 6.2.2
<b>Noise (other than turbine noise)</b>	Addressed in this OEMP	OEMP Section 6.2.3
<b>Traffic &amp; transport</b>	Addressed in this OEMP	OEMP Section 6.2.4

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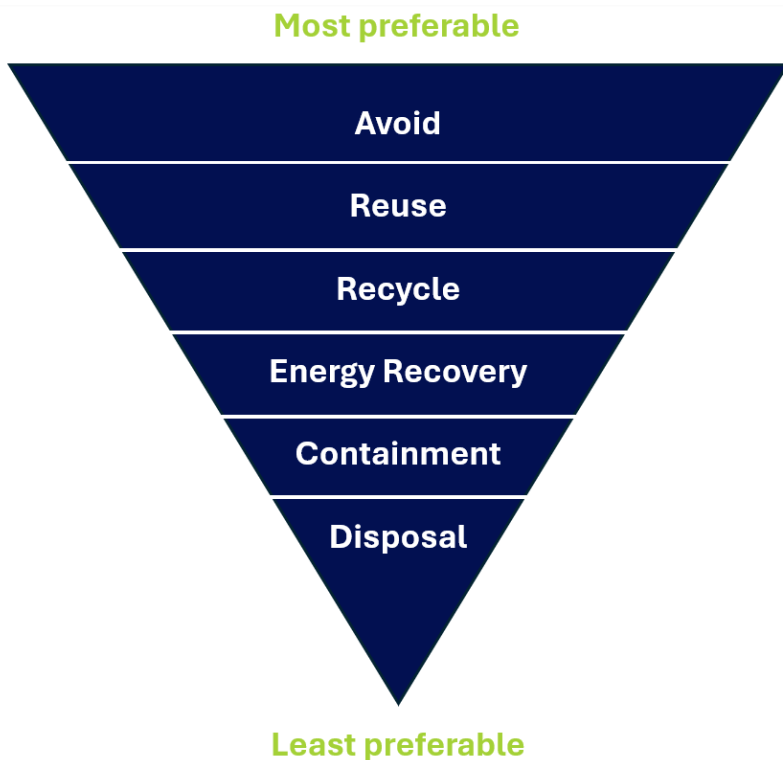
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### 6.2.1 Waste

Waste shall be managed in accordance with the EPA Victoria Guideline *Managing industrial waste – Your duties as a waste producer* (Publication 1990.1 July 2021).

The MWWF site shall be maintained in a tidy and organised manner with regard to minimising environmental impact on the site and neighbouring properties.

The Waste Management Hierarchy shown in Figure 6-1 will be adopted at MWWF, in accordance with Section 18 of the Environment Protection Act 2017.



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Figure 6-1 Waste Management Hierarchy

Management measures to be implemented during operations and maintenance include:

- Waste storage and containment facilities on site shall be secured in a way which guards against material dispersion, particularly in high wind conditions;
- Any solid wastes shall not be buried or burned on site;
- Wastes will only be disposed after considering whether resource recovery / recycling options are available; and
- Wastes will be disposed in a Lawful Place (e.g. resource recovery facility, transfer station, registered landfill facilities).

### 6.2.2 Dust

Dust will be inadvertently produced at the site during operation and maintenance of the MWWF. Dust will primarily be generated from vehicles on unsealed areas. During operations, it is estimated that there would be up to 15 permanent staff on site likely to commute daily from population centres. In addition to this there would typically be 2-3 truck deliveries per week.

During scheduled and unscheduled turbine maintenance programs, a higher volume of traffic will be generated (for example, main crane and associated transport trucks, support cranes, component deliveries, additional technicians and maintenance workers etc).

Standard dust reduction measures will be implemented during operation and maintenance including:

- Watering of roads, as required (for example, in the case that earthmoving equipment is operated at site, or increased frequency of heavy vehicle movements occurs; watering of roads is not expected to be required as part of normal site operations); and
- Truck movements on-site will be minimised and truck speed will be kept as low as practicable, further minimising the generation of dust.

In the event that the objectives of the dust control system are not being met, remedial actions will be implemented to minimise the future occurrence of dust emissions. They may include:

- Internal review and amendment of the dust controls;
- External review and recommendations for amendment of the dust controls (by a dust specialist); and
- Increase in the water spraying conducted.

Importantly, no chemical dust suppressant may be used on site without the prior written permission of the Minister for Planning, as required by Condition 46 of Planning Permits PA1600127B and 1600128C.

### 6.2.3 Noise (other than operational turbine noise)

Note – this section does not relate to noise emissions from the operation of wind turbines. Refer to the MWWF Operational Noise Management Plans.

#### Noise sources

Some wind farm maintenance activities have the potential to generate noise. Types of maintenance activities that could produce noise on site include:

- Operation of vehicles within the site (light vehicles, transport trucks, delivery trucks etc).
- Operation of cranes when undertaking lowering / lifting of turbine components (eg. blades, nacelle, gearbox).
- Use of hand tools when undertaking turbine maintenance (both inside the tower/nacelle and on the turbine hardstand).
- Operation of plant and equipment during road maintenance (e.g. graders, rollers).
- Operation of fixed plant such as generators.

On occasion, maintenance works may need to be undertaken during evening or night periods in cases of emergency or in order to complete critical works (i.e. those that have commenced and cannot be stopped until complete).

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#### Standard noise management measures

Reasonable and practicable measures will be implemented to minimise noise generation during wind farm maintenance activities:

- Schedule maintenance activities during daytime hours as far as possible
- Plant and equipment used on site is to be well maintained and fitted with adequately maintained silencers which meet the manufacturers specifications;
- Site personnel are only using plant and power necessary to complete the task
- Care to be taken when moving and placing materials or items (ie. placing items carefully onto trucks, rather than dropping);

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- Plant that is only used intermittently is to be shut down when not in use;
- Where practicable and feasible, any strong noise emitting equipment should be placed in a manner such that the noise is directed away from receivers; and
- Where practicable and feasible, use of acoustic barriers around fixed plant such as diesel generators.

**Operating times and adherence to noise limits**

The *Environment Protection Regulations 2021* set operating time periods for commercial, industrial and trade premises to provide for generally lower noise limits at more sensitive times, such as at night when people usually sleep. The operating time periods are:

Period	Time and days
Day	7am to 6pm Monday to Saturday (except public holidays)
Evening	6pm to 10pm Monday to Saturday 7am to 10pm Sunday and Public Holidays
Night	10pm to 7am the following day

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Noise limits apply to commercial, industrial and trade premises as detailed in the *Environment Protection Regulations 2021* *Noise limit and assessment protocol for the control of noise from commercial, industrial, trade and entertainment venues* (EPA, 2021) ('Noise Protocol').

Significant maintenance works on site will be scheduled to ensure that the noise levels do not exceed the relevant noise criteria determined in accordance with Noise Protocol.

**6.2.4 Traffic and Transport**

**Traffic types and volumes**

Routine operation and maintenance of the MWWF will typically involve the following traffic generation:

- Permanent wind farm staff: up to 15 light vehicles per day;
- Material deliveries, waste removal: 2 – 3 trucks per week; and
- Occasional visitors to the wind farm (e.g. Squadron Energy representatives, government agencies etc): variable in number and frequency.

During scheduled and unscheduled wind farm maintenance programs, a higher volume of traffic is expected to be generated. The additional traffic might include but is not limited to:

- Main crane delivery, which requires mobilisation of crane requiring approximately 35 delivery trucks;
- Support cranes;
- Turbine component deliveries (e.g. in the event that a component needs to be replaced / repaired – such as blades, gearbox, bearing etc);
- Plant and equipment that may be required for site maintenance (e.g. earthmoving equipment for access road maintenance);
- Truck transport of temporary facilities required to facilitate maintenance works (e.g. portable toilets, portable site offices); and
- Light vehicles operated by technicians, maintenance workers and other visitors.

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**Traffic and transport management measures**

The following measures will be implemented:

- All wind farm traffic to utilise existing site access points and roads. Access roads within the wind farm site are shown on Figure 2-2 and Figure 2-3;
- All wind farm traffic to remain on formed roads, unless specifically required to depart the formed road to complete necessary works (e.g. weed spraying, infrastructure maintenance);
- Over-size / over-mass Permits to be obtained for all over-size / over-mass deliveries associated with the project; and
- Manage traffic movements on site in a manner which mitigates risk of damage to personnel, property and the environment.

**Public road condition survey and rehabilitation**

In compliance with Permit Condition 35(k), at least every five (5) years an inspection will be completed of public roads used in connection with the operation with the wind farm. If required, roads will be rehabilitated to the condition identified by the road dilapidation report that was originally prepared under Condition 35b of the Planning Permits.

**6.2.5 Visual**

Wind farm maintenance activities may result in some visual impacts to receivers, including increased plant and equipment on site (e.g. cranes), increased traffic activity on roads, and occasional use of lighting outside of daylight hours.

Visual management measures will include:

- Dust is to be managed in accordance with Section 6.2.2 of this OEMP;
- Colours and finishes of all buildings and works (including turbines) will remain non reflective such as to minimise the visual impact of the development on the surrounding area;
- Use of artificial lighting will be minimised, and will only be used to the extent required to ensure safe working conditions outside of daylight hours;
- If any artificial lighting is required for works outside of daylight hours, it will be positioned in a manner that reduces light spill towards residential receivers.

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# 7 OEMP Implementation

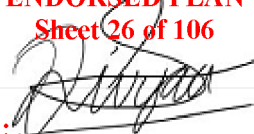
## 7.1 Roles and Responsibilities

Whilst environmental management is the responsibility of everyone involved with the MWWF, all personnel have specific roles in relation to environmental management. Table 7-1 outlines the roles and responsibilities for key environmental personnel.

**Table 7-1 Roles and Responsibilities**

Role	Responsibilities
<b>Asset Manager (employed by the Asset Manager)</b>	<p>The Asset Manager is responsible for asset management of the MWWF and has the following responsibilities:</p> <ul style="list-style-type: none"> <li>• Communicate clear expectation in relation to environmental behaviour and performance to the Project team;</li> <li>• Ensuring that the requirements of this OEMP are fully implemented;</li> <li>• Reviewing environmental management reports and plans prepared by the O&amp;M Contractor or third parties;</li> <li>• Overall coordination and responsibility of dealing with issues and concerns &amp; ensuring a record of all environment related complaints is maintained;</li> <li>• Liaise with relevant key stakeholders of the MWWF as required;</li> <li>• Ensure required periodic review of this OEMP is undertaken in accordance with <b>Section 10.4</b> of this OEMP;</li> <li>• Ensure that this OEMP complies with all applicable environmental regulations;</li> <li>• Ensure reports and documentations are prepared and submitted to relevant authorities and MWWF personnel as required;</li> <li>• Ensure Contractors are fully aware of their environmental obligations prior to entering into construction contracts;</li> <li>• Report on environment performance to identified objectives and targets; and</li> <li>• Manage the recording and resolution of complaints and liaise directly with the complainants.</li> </ul>
<b>Service Manager</b>	<p>The O&amp;M Contractor's Service Manager (Service Manager) will have the following particular responsibilities under this OEMP:</p> <ul style="list-style-type: none"> <li>• Communicate clear expectation in relation to environmental behaviour and performance to the O&amp;M Contractor's team;</li> <li>• Ensuring that the requirements of this OEMP are fully implemented by the O&amp;M Contractor;</li> <li>• Ensuring that all Site Supervisors are familiar with the OEMP and their responsibilities contained within the plan; and</li> <li>• Report on the O&amp;M Contractor's environment performance.</li> </ul>
<b>Site Supervisor</b>	<p>The O&amp;M Contractor's Site Supervisor (Site Supervisor) will have the following particular responsibilities under this OEMP:</p> <ul style="list-style-type: none"> <li>• Ensure that subcontractors and all personnel onsite comply with the requirements of the OEMP, subplans and environmental procedures;</li> <li>• Report environmental incidents (actual/potential) to the Service Manager and Asset Manager and assist in resolution;</li> <li>• Participate in any internal or external environmental inspections and audits if requested;</li> <li>• Carry out maintenance on environmental controls as required;</li> <li>• Preparation of work type/area specific procedures, Safe Work Method Statements, Permits and other relevant documentation;</li> </ul>

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Role	Responsibilities
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- Implement stop work procedures where they believe a work activity to be an actual or potential cause of pollution to the environment;
- Ensuring that lead personnels are aware of the environmental procedures and the need to effectively implement the procedures;
- Supervision of workforce and sub-contractors with respect to environmental compliance;
- Monitoring and maintaining the works in conformance with the environmental procedures;
- Managing environmental incidents;
- Delegating authority to act in the event of an emergency and to allocate the required resources; and
- Arranging necessary training of MWWF site personnel in relation to management of environmental matters.

**Other Personnel** All personnel are responsible for the environmental impacts of their own actions and have a duty to carry out their work in a manner which does not present a risk to the environment. Other personnel including subconsultants and subcontractors have the following responsibilities under this OEMP:

- Compliance with site induction requirements for all aspects of environmental management;
- Compliance to the OEMP and all plans and procedures as they apply to their operations on the site;
- Reporting all environmental incidents to the Site Supervisor immediately; and
- Following instructions issued by the Project team and supervisory personnel as they relate to environmental management and incidents.

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## 7.2 Training Program

Three main forms of training will be provided on site:

- Site Induction - roles and responsibilities, introduction to the Project and assigned tasks in regard to the OEMP;
- Environmental Awareness Training - environmental awareness training will be tailored to allow personnel to complete assigned tasks in regard to the OEMP; and
- Toolbox Training – reinforce safety and raise awareness of environmental aspects.

Records of induction and training will be kept on a database including the topic of the training carried out, dates, names and trainer details. Inductees will be required to sign-off that they have been informed of the environmental issues and that they understand their responsibilities. The Site Supervisor will review the program and monitor its implementation.

### 7.2.1 Environmental Inductions

Adequate training and instruction will be provided to all personnel to allow them to perform their duties whilst ensuring the environmental impacts associated with the Project are minimal.

There will be two levels of induction:

- **Level one** will be for visitors, irregular delivery drivers and others who will remain in the company of a fully inducted Site Supervisor or their delegate.
- **Level two** induction will be required for all permanent employees and subcontractors working on the MWWF. The level two induction will include but will not be limited to the following topics:
  - The OEMP (purpose, objectives and key issues);

- Legal requirements including applicable legislation, conditions of environmental licences, permits and approvals, due diligence, general environmental duty, and duty to notify and potential consequences of infringements;
- O&M Contractor's environment policies; and
- Environmental management strategies and controls for areas such as erosion and sediment control, weed management, and noise.

**7.2.2 Environmental Awareness Training**

Staff and sub-contractors working on the MWWF will be provided with environmental training to achieve a level of awareness and competence appropriate to their assigned activities.

Targeted environmental awareness training will be provided to individuals or groups of workers with a specific authority or responsibility for environmental management or those undertaking an activity with a high risk of environmental impact. This training will generally be prepared and delivered by the Site Supervisor. Environmental staff and environmental specialists may also deliver specific environmental training.

**7.2.3 Toolbox Training**

A set of topics will be devised for presentation at toolbox meetings to raise awareness of environmental aspects and issues.

Toolbox training will help to ensure that relevant information is communicated to the workforce and that feedback can be provided on issues of interest or concern. Toolbox training will generally be prepared and delivered by the Site Supervisor.

Topics covered include erosion and sediment control, hydrocarbons, flora/fauna, pests, noise and vibration minimisation and general site issues.

**7.3 Communications**

**7.3.1 Information Sharing**

The following websites exist for the MWWF Project:

- Murra Warra Wind Farm Stage 1: <https://www.squadronenergy.com/our-projects/murra-warra-wind-farm>
- Murra Warra Wind Farm Stage 2: <https://www.squadronenergy.com/our-projects/murra-warra-ii-wind-farm>

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The websites provide a project overview, key project information, location / map, project timeline, and project updates. The following project documentation will be made available on the project websites, including:

- Planning Permits;
- Operational Environmental Management Plan;
- Complaints Investigation and Response Plan; and
- Report(s) documenting the findings of the Bat and Avifauna Monitoring Program (once completed) to satisfy Condition 57 of PA1600127B and Condition 58 of PA1600128C.

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**7.3.2 Complaints**

Complaints from any source (e.g. public, government authorities) relating to the environment will be managed according to the Complaints Investigation and Response Plan (RES, 2017).

An environmental complaints register will be established and maintained by the Asset Manager who will receive, log, track and respond to complaints within three business days. In the case of an emergency, potential pollution/environmental incident or non-compliance, the complaint will be responded to immediately.



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The following details will be recorded in the register:

- Date and time;
- Type of communication (telephone, letter, meeting);
- Name, address, contact number of complainant;
- Nature of complaint;
- Details;
- Action taken in response including who the complaint was referred to (if not resolved immediately); and
- Details of any monitoring undertaken to confirm that the complaint has been satisfactorily resolved.

A report including a reference map of complaint locations, and outlining complaints, investigation and remediation actions is to be prepared and provided on an annual basis to the satisfaction of the Responsible Authority (Minister for Planning).

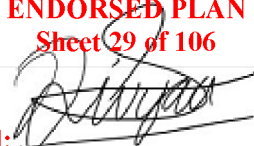
### 7.4 Indicative Delivery Schedule

The Indicative Delivery Schedule in Table 7-2 summarises the proposed action, frequency, responsibility of monitoring and actioning environmental matters associated to the MWWF.

**Table 7-2 Indicative Delivery Schedule**

Applicable Plan	Action	Timeframe	Responsible Person
<b>Sediment, Erosion and Water Quality Management Plan</b>	<ul style="list-style-type: none"> <li>• Inspection of permanent erosion control features that remain on site post-construction and rehabilitated as necessary.</li> </ul>	As part of Civil Balance of Plant regular inspections, or as required	Site Supervisor
<b>Biosecurity Management Plan</b>	<ul style="list-style-type: none"> <li>• Maintain a Biosecurity Traceability Record to include:                             <ul style="list-style-type: none"> <li>– A record of every visitor and item of plant or machinery to be kept on site.</li> <li>– Vehicle and plant hygiene records.</li> <li>– A record of all the materials that come into site including the source, date, treatments, certification and where it will be stored.</li> </ul> </li> </ul>	As required	Site Supervisor
<b>Fire Prevention and Emergency Response Plan</b>	<ul style="list-style-type: none"> <li>• Regular maintenance of grass and / or weed growth will be carried within 5 m of the operations and maintenance building and gutters is to be regularly inspected and cleared of debris.</li> </ul>	Annually in September / October (prior to bushfire season in November)	Site Supervisor
	<ul style="list-style-type: none"> <li>• An annual emergency exercise / fire drill will be conducted to test and raise awareness of the MWWF emergency response procedures.</li> </ul>	Annually	Site Supervisor
	<ul style="list-style-type: none"> <li>• Inspection of each turbine to ensure the crushed rock/gravel area is clear of vegetation and other flammable items.</li> </ul>	Annually in September / October (prior to bushfire season in November)	Site Supervisor

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# 8 Environmental Incident & Non-conformance

## 8.1 Incident Management

An incident can be defined as an unwanted event which has an adverse effect on the environment.

All environmental incidents must be notified and reported internally to the Asset Manager and to Squadron Energy. Incident escalation and reporting shall be in accordance with the SQE Incident Escalation and Reporting Procedure (SQE-02-PRO-002).

The incident register must be completed by parties involved in the incident within 24 hours once immediate required mitigation actions are completed. An investigation or review of the incident must be undertaken to identify any further appropriate corrective actions required. Completed incident report forms must be signed by those documenting the report as well as by the Asset Manager.

Some pollution incidents must also be notified externally to authorities, as detailed in Section 7.1.1.

### 8.1.1 Notifiable Pollution Incidents

#### What is a notifiable pollution incident?

A notifiable incident means a pollution incident that causes, or threatens to cause 'material harm' to human health or the environment.

Pollution incidents usually involve a leak or spill. They can also involve an unintended or unauthorised deposit, or an escape of a substance which results in pollution.

A pollution incident must be reported to the Environment Protection Authority (EPA) Victoria if it causes or threatens material harm. 'Material harm' means that:

- There is an adverse effect on human health or the environment
- There is an adverse effect on an area of high conservation value or of special significance
- The cleanup or management of the pollution or cost of restoration would cost \$10,000 or more.

The obligation to report applies even when the incident is contained to the site.

Actual harm doesn't need to have occurred for the incident to be reported. A report should be made even when material harm is threatened by the event.

#### Notifiable pollution incident examples

Examples of the types of incidents to report include:

- the release is uncontrolled or unplanned and could cause material harm
- the substances are harmful to water or land in large quantities, such as a milk and organic materials
- a cleanup would be expensive
- the substances are dangerous or toxic and threaten the environment or people. An example being your safety data sheet indicates risk to the environment or to people.

#### Who is responsible for reporting notifiable incidents?

The person who is engaged in the activity that caused the incident is responsible for reporting the incident. If more than one person is involved in an activity that results in a notifiable incident, at least one person must notify the EPA. If nobody reports the incident then everyone has failed to meet their duty.

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**How to report a notifiable incident?**

STEP 1: Call the EPA on 1300 372 842. Provide the following information:

- contact information
- business name and address
- time, date and location of the notifiable incident
- type of incident it was, such as a spill, leak, escape or fire
- what caused the incident, or what you suspect caused it
- estimate of volume released
- what you think the impact may be on human health and the environment
- how the incident is being managed

STEP 2: Return the notification form to the EPA

- The EPA will email a notification form using the contact details provided at Step 1.
- Complete the form and return it to the EPA within 5 business days. The report of a notifiable incident is not complete until the form has been returned to the EPA.

**8.2 Non-conformance Management**

A non-conformance can be defined as a failure to undertake a task in the required manner. This may not lead to an incident, and if this is the case may be considered a near miss.

The incident register must be completed by parties involved in the non-conformance within 24 hours once immediate required mitigation actions are completed.

An investigation or review of the non-conformance must be undertaken to identify any further appropriate corrective actions required.

**8.3 Corrective Actions**

Corrective actions identified in the incident investigation and review shall be implemented as soon as practicable, undertaken, or overseen by the responsible party as listed in the Incident Register.

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## 9 Emergency Preparedness & Response

Emergency response procedures for significant environmental emergencies such as bushfire are contained in the MWWF Fire Prevention and Emergency Response Plan (Subplan C of Appendix A).

Appropriate persons shall be contacted as soon as practicable following detection of an incident. This includes but is not limited to those listed in Table 9-1 below.

**Table 9-1 Emergency Contact Details**

Name of Organisation	Office/ Contact	Phone Number
Victoria Police	Emergency	000
Ambulance Victoria	Emergency	000
Country Fire Authority (CFA)	Emergency	000
Country Fire Authority (CFA)	District 17 Headquarters Horsham	(03) 5762 1700
State Emergency Service (SES)	State Emergency contact	132 500
Yarriambiack Shire Council	Switchboard	(03) 5398 0100 (Municipal Office)
Horsham Rural City Council	Switchboard	(03) 5382 9777 (Civic Centre)
Environment Protection Authority (EPA) Victoria	Incident notification	1800 372 842
Wildlife Victoria	Fauna translocation	1300 094 535

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# 10 Monitoring & Reporting

## 10.1 Overview

A systematic monitoring process involving inspection and auditing fulfils a threefold purpose to:

- Ensure conformity to contractual requirements;
- Ensure environmental performance complies with legislative requirements and in accordance with Project requirements;
- Provide an ongoing risk management process and early warnings of hazards. Environmental monitoring and reporting process on this Project shall include:
  - inspections;
  - auditing; and
  - reporting.

## 10.2 Inspections

An Environmental Inspection Checklist will be completed by the Asset Manager for the purpose of verifying compliance with the OEMP, licences, permits and approvals.

Where inspection by the Asset Manager or delegate determines that measures are not effective the Project will implement corrective and preventative measures.

Any non-conformances detected during inspections by other personnel, or if any rectification or maintenance is required or carried out, this shall then be documented, and significant issues reported in a timely manner to the Asset Manager and/or Site Supervisor as required.

## 10.3 Auditing

### 10.3.1 Internal Auditing

Internal environmental audits will be undertaken at least annually and shall include:

- Internal audits to ensure implementation of the Project environmental processes and
- Regular surveillance of operational activities.

An audit report register shall be maintained. Results of the audit shall be documented and brought to the attention of the personnel having responsibility for the area audited and reported to the Asset Manager within 5 working days of finalisation of the audit. For any observations or non-compliances found, corrective actions shall be recorded in the Environmental Inspection Checklist and addressed in a timely manner.

### 10.3.2 External Auditing

External, independent audits will be undertaken at least every three years during operations. All external audits will be undertaken in accordance with ISO 19011:2003 - Guidelines for Quality and/ or Environmental Management Systems Auditing.

Results from external audits are to be reviewed by the Asset Manager and any necessary corrective actions assigned to ensure appropriate and timely closeout.

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### 10.4 Control of Measuring and Testing Equipment

All inspection, measuring and testing equipment (including newly acquired test equipment) used for inspection and acceptance purposes shall be controlled, calibrated, and maintained, as per the relevant manufacturer's specifications. This also includes such equipment used by subcontractors.

Measuring equipment for inspection and product conformance purposes shall be calibrated at prescribed intervals against certified equipment having a known relationship to nationally recognised standards. Any equipment identified as having doubtful accuracy or precision shall be removed from use and calibrated. Where any inspection, measuring and test equipment is found to be out of calibration, the validity of the previous inspection results shall be assessed and documented.

### 10.5 Reporting Program

Environmental reporting requirements for the project are summarised in Table 10-1 below.

Table 10-1 Environmental reporting requirements during MWWF operations

Report type	Details	Report recipient
Internal monthly reporting	<p>A written environment report each month shall be compiled by the Asset Manager and included in the Project monthly reporting. It shall contain information such as:</p> <ul style="list-style-type: none"> <li>A status of environmental activities such as monitoring and surveillance of controls, inspections, testing and incidents associated with the work during the preceding month;</li> <li>Environmental good news stories;</li> <li>Complaints, infringements and penalties incurred;</li> <li>All environmental incidents;</li> <li>Status of environment document preparation/approval;</li> <li>Status of all non-conformances, detailing preventative actions taken to prevent recurrence of those incidents/non-conformances; and</li> <li>The results of environment reviews and audits (internal and external) undertaken during the preceding month.</li> </ul>	Asset Manager, Asset Owner
Annual complaint reporting	A report including a reference map of complaint locations, and outlining complaints, investigation and remediation actions is to be prepared and provided on an annual basis to the satisfaction of the Responsible Authority (Minister for Planning).	Minister for Planning
Internal incident and non-conformance reporting	All environmental incidents and non-conformances will be reported internally in accordance with the requirements of Sections 8.1 and 8.2 of this OEMP.	Asset Manager, Asset Owner
Notifiable pollution incident reporting	Any notifiable pollution incident will be reported to the Victorian EPA in accordance with the requirements set out in Section 8.1.1 of this OEMP.	Victorian EPA
Annual Noise Statement	Annual Statement required in accordance with Regulation 131F of the Environment Protection Regulations 2021. Requirements for this Annual Statement are further detailed in the Operational Noise Management Plans (Standalone Plan).	Victorian EPA, DEECA

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## 10.6 Record Keeping

Project records, including pertinent subcontractor records, shall be maintained to provide evidence of the effective operation of the environmental management system. Such records shall include, but are not limited to:

- Correspondence to/from interested parties;
- Permits, licenses and approvals;
- Induction register and induction training records;
- Environmental incidents, non-conformances and complaints;
- Inspection checklists, diary entries;
- Monitoring results;
- Internal and external inspections and audits; and
- Any other record identified within the OEMP.



# 11 Review

## 11.1 Review of OEMP

This OEMP must be reviewed and if necessary amended in consultation with the responsible authority and other authorities as directed by the responsible authority every five years, to reflect operational experience and changes in environmental management standards and techniques. Any changes to it shall be communicated to the Project team and maintained in a document control register. If any of these changes are to impact the operational staff, they shall be informed of the relevant changes during a Toolbox Talk.

Any amended plan shall be submitted to the responsible authority for re-endorsement. Once re-endorsed the amended plan shall supersede the earlier plan.

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## 12 References

Country Fire Authority, 2023, Design Guidelines and Model Requirements – Renewable Energy Facilities

Department of Environment, Land, Water and Planning, 2021, Policy and Planning Guidelines for Development of Wind Energy Facilities in Victoria

EPA Victoria, 2018, Publication 1698 – Liquid storage and handling guidelines

EPA Victoria, 2021, Publication 1915 – Contaminated land policy

EPA Victoria, 2021, Publication 1826.4 – Noise limit and assessment protocol for the control of noise from commercial, industrial and trade premises and entertainment venues

ISO 14001:2004 Environmental Management Systems

ISO 19011:2003 Guidelines for Quality and/ or Environmental Management Systems Auditing

National Transport Commission, 2018, Australian Code for the Transport of Dangerous Goods by Road and Rail, Edition 7.8

DELWP, 2021, Policy and Planning Guidelines for Development of Wind Energy Facilities in Victoria

Standards Australia, 2004, Australian Standard 1940:2004 – The storage and handling of flammable and combustible liquids

Standards Australia, 2007, Australian Standard 3833:2007 – The storage and handling of mixed classes of dangerous goods, in packages and intermediate bulk containers

Victorian Serrated Tussock Working Party, 2020, Victoria’s Best Practice Serrated Tussock Weed Hygiene Guide

Victorian Government, 2002, Victoria's Native Vegetation Management - A Framework for Action

Wimmera Catchment Authority, 2019, Invasive Plant and Animal Management Strategy

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# Appendix A OEMP Subplans

- **Subplan A:** Sediment, Erosion and Water Quality Management Plan
- **Subplan B:** Hydrocarbon and Hazardous Substances Plan
- **Subplan C:** Fire Prevention and Emergency Response Plan
- **Subplan D:** Biosecurity Management Plan

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## Subplan A: Sediment, Erosion and Water Quality Management Plan

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PREPARED FOR



Murra Warra Project Co Pty Ltd as  
trustee for the Murra Warra Project  
Trust

DATE  
17 November 2023

REFERENCE  
0691524

# Murra Warra Wind Farm

## Sediment, Erosion and Water Quality Management Plan





**DOCUMENT DETAILS**

DOCUMENT TITLE	Murra Warra Wind Farm
DOCUMENT SUBTITLE	Sediment, Erosion and Water Quality Management Plan
PROJECT NUMBER	0691524
Date	17 November 2023
Version	A
Author	E Chung
Client name	Murra Warra Project Co Pty Ltd as trustee for the Murra Warra Project Trust

**DOCUMENT HISTORY**

VERSION	REVISION	AUTHOR	REVIEWED BY	NAME	DATE	COMMENTS
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				ERM APPROVAL TO ISSUE		
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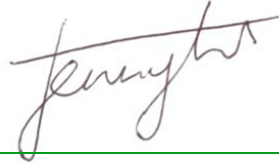
# Murra Warra Wind Farm

## Sediment, Erosion and Water Quality Management Plan

0691524



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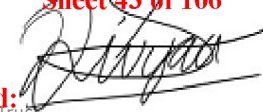
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## ACRONYMS AND ABBREVIATIONS

Name	Description
EPA	Environment Protection Authority Victoria
EPC	Engineer, Procure, Construct
LGA	Local Government Area
MWWF	Murra Warra Wind Farm
OEMP	Operational Environmental Management Plan
SEWQMP	Sediment, Erosion and Water Quality Management Plan
The Project	Murra Warra Wind Farm
WTGs	Wind Turbine Generators

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# 1. INTRODUCTION

The Sediment, Erosion and Water Quality Management Plan (**SEWQMP**) was initially prepared in May 2017 by RES Group in consultation with the Wimmera Catchment Management Authority.

MWWF was developed and constructed in two stages - known as Murra Warra 1 (**MW1**) and Murra Warra 2 (**MW2**) for the purpose of this Plan. RES was the project developer and hence was the key entity during the development phase. When entering into construction in late 2017, however, specific commercial entities were established for each stage, to own, construct and operate MW1 and MW2. Construction was effectively completed in late 2022. The two stages are now in operation and are independent of each other in many respects. The Project's planning permit, however, was granted to the overall facility (MW1 and MW2); hence this Plan is applicable to both stages.

Environmental Resources Management Australia Pty Ltd (**ERM**) has been engaged by Murra Warra Wind Farm Project Co Pty Ltd as trustee for the Murra Warra Project Trust to undertake a 5-yearly review and update of the SEWQMP pursuant to the Murra Warra Wind Farm Planning Permits including No. PA1600129, No. PA1600127B and No. PA1600128C issued by the Horsham Rural City Council and Yarrambiack Shire Council on 21 November 2016.

## 1.1 BACKGROUND

The Murra Warra Wind Farm project (**the Project or MWWF**) comprise 4,250 ha of land located within the Kewell, Blackheath and Murra Warra districts. The Project is located in the Wimmera region approximately 25 km north of Horsham and 15 km south of Warracknabeal. The entirety of the Project site is located on agricultural land which has been heavily cleared, and the predominant activity that remains are broad acre cropping and grazing.

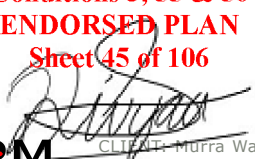
The MWWF involved the construction of:


- 99 wind turbine generators (**WTGs**) and their associated footings and foundations, where 61 WTGs are located within the Yarriambiack Local Government Area (**LGA**) and 38 WTGs are located within the Horsham LGA with a combined total generation capacity of 434.7 megawatts;
- New and upgraded access tracks;
- Up to four permanent anemometry masts;
- Approximately 75 km of underground cabling;
- Approximately 18 km of overhead cabling and up to two intermediate collector stations;
- Terminal station and connection to AusNet Services' 220 kV high voltage transmission line located in the centre of the site;
- Operations and maintenance facility; and

- Temporary construction compound, concrete batching plants, social buildings and site facilities were removed and the areas rehabilitated, upon completion of construction.

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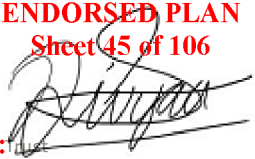
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 PROJECT NO: 0691524  
 DATE: 17 November 2023  
 VERSION: 1.0



## 2. PLAN PURPOSE

The SEWQMP shall be read in conjunction with the Project's overarching Operational Environmental Management Plan (**OEMP**).

### 2.1 PLANNING PERMIT

In total, the Project has three Planning Permits:

- Horsham Rural City Council Permit No. PA1600127B;
- Yarriambiack Shire Council Permit No. PA1600128C; and
- Yarriambiack Shire Council Permit No. PA1600129<sup>1</sup>.

The Project was granted permits No. PA1600127B and No. PA1600128C on 21 November 2016 (last amended 15 February 2023) and received its planning conditions from Horsham Rural City Council and Yarriambiack Shire Council for the development and use of land for a wind energy facility and associated buildings and works, removal of native vegetation and business identification signage.

This SEWQMP has been prepared in order to satisfy the requirements of Condition 43 of Planning Permits No. PA1600127B and No. PA1600128C where the terms of conditions relating to this SEWQMP are identical.

**TABLE 2-1 SUMMARY OF CONDITIONS FROM PLANNING PERMIT PA1600127B AND PA1600128C RELEVANT TO THE SEWQMP**

Condition number	Compliance requirement	Relevant Plan section
43	The Environmental Management Plan must include a Sediment, Erosion and Water Quality Management Plan which must be prepared in consultation with the Wimmera Catchment Management Authority. The Sediment, Erosion and Water Quality Management Plan must include:	This Plan
43 (a)	Identification of all construction and operational processes that could potentially lead to water contamination;	Section 5
43 (b)	Procedures to ensure that silt from batters, cut-off drains, table drains and road works is retained on the site during and after construction and replaced as soon as possible. To this end: <ul style="list-style-type: none"> <li>i. All land disturbances must be confined to a minimum practical working area;</li> <li>ii. Soil to be removed must be stockpiled and separate soil horizons must be retained in separate stockpiles and not mixed, and soil must be replaced as soon as possible in sequence;</li> <li>iii. Stockpiles must be located away from drainage lines;</li> </ul>	Section 5.1, 6 and 7
43 (c)	The installation of geo-textile silt fences (with sedimentation basins where appropriate) on all drainage lines from the site which are likely to receive run-off from disturbed areas;	Not applicable to operational phase

<sup>1</sup>Planning Permit No. PA1600129 was for the use and development of land for a utility installation (substation) and business identification signage and does not include any conditions relevant to the Project's SEWQMP.

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Condition number	Compliance requirement	Relevant Plan section
43 (d)	Procedures to ensure that steep batters are treated in accordance with EPA Publication 275 Construction Techniques for Sediment Pollution Control;	Section 5.1.1
43 (e)	Procedures for waste water discharge management;	Not applicable to operational phase
43 (f)	A process for overland flow management to prevent the concentration and diversion of waters onto steep or erosion prone slopes;	Section 5.1 and 5.1.2
43 (g)	Pollution management measures for stored and stockpiled materials including waste materials, litter, contaminated run-off and any other potential source of pollution to ground or surface waters;	Not applicable to operational phase
43 (h)	Incorporation of appropriate pollution control measures outlined in EPA Publication 480 Environmental Guidelines for Major Construction Sites;	Section 5.1
43 (i)	An agreed program and appropriate capacity for annual inspection and regular maintenance of any on-site wastewater management system;	Not applicable to operational phase
43 (j)	Siting of any concrete batching plant and any on-site wastewater disposal treatment fields at least 100 metres from any watercourse;	Not applicable to operational phase
43 (k)	A program of inspection and remediation of localised erosion within a specified response time.	Section 6

## 2.2 OBJECTIVES OF THIS MANAGEMENT PLAN

The objectives of this SEWQMP are to:

- Stipulate erosion and sediment control design guidelines to be employed during any future works and operational phase;
- Describe the standard erosion and sediment control measures to be implemented to prevent soil erosion and associated surface water management on site document ongoing maintenance requirements for the controls;
- Outline reporting and review requirements; and
- Establish responsibilities for erosion and sedimentation management.

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### 3. APPLICABLE LEGISLATION

Key legislation, policy requirements and standards relevant to the management of erosion and water quality and are applicable to the Project are as follows:

- *Environment Protection Act 2017*;
- EPA Publication 1806: Reducing risk in the premixed concrete industry;
- EPA Publication 1834.1: Civil construction, building and demolition guide;
- EPA Publication 1733: Development of indicators and objectives for SEPP (Waters);
- Environment Reference Standards (EPA 2021);
- Construction Techniques for Sediment Pollution Control (EPA Victoria, 1991);
- Water Quality Objectives for Rivers and Streams - Ecosystem Protection (EPA Victoria, 2003); and
- A Guide to the sampling and analysis of water, wastewaters, soils and wastes (EPA Victoria, 2009).

### 4. LOCAL HYDROLOGY

The Project site is located within the Wimmera Catchment Management Area region and is located 7 km west of the Yarriambiack Creek and 27 km east of the Wimmera River. There are no designated waterways or minor streams within the Project site.

The Project site drains generally north and the land falls at an approximate rate of 1 m per 1,000 m. The site straddles the now obsolete 'Main Western' and 'Rainbow' irrigation channels that were formerly part of the extensive 17,500 km earthen open channel network that distributed water annually in the Wimmera and Mallee Regions. Undertaken by the Grampians Wimmera Mallee Water, water within these open channels have been replaced between 2006 to 2010 with a 9,000 km piped water distribution system which provides continuous pressurised water, providing for approximately 9,000 farms and 34 townships across Wimmera and Mallee. The channels are not required for drainage purposes and are being filled in with land to be returned to agricultural use.

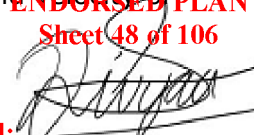
There are no designated waterways within the site that would require a Works on Waterways licence to be obtained for any future works associated to the Project.

### 5. MANAGEMENT AND MITIGATION

There are four main erosion types as described below and depicted in **Figure 5-1**:

- **Splash Erosion:** is caused by the direct impact of falling rain drops on the soil particles. This impact dislodged soil particles and splashes them into the air. The dislodged soil particles can then be easily transported by the flow of surface runoff.
- **Sheet Erosion:** refers to the removal of a layer of exposed surface soil by the action of raindrop splash and runoff. The water moves in broad sheets over the land and is not confined in small depressions.
- **Rill and Gully Erosion:** is caused by concentrated runoff in water holes, rills and gullies several inches deep into the soil surface. These grooves are called rills. Gullies may develop in unrepaired rills or in other areas where a concentrated flow of water moves over the soil.
- **Stream and Channel Erosion:** is caused by increases in the volume and velocity of runoff.

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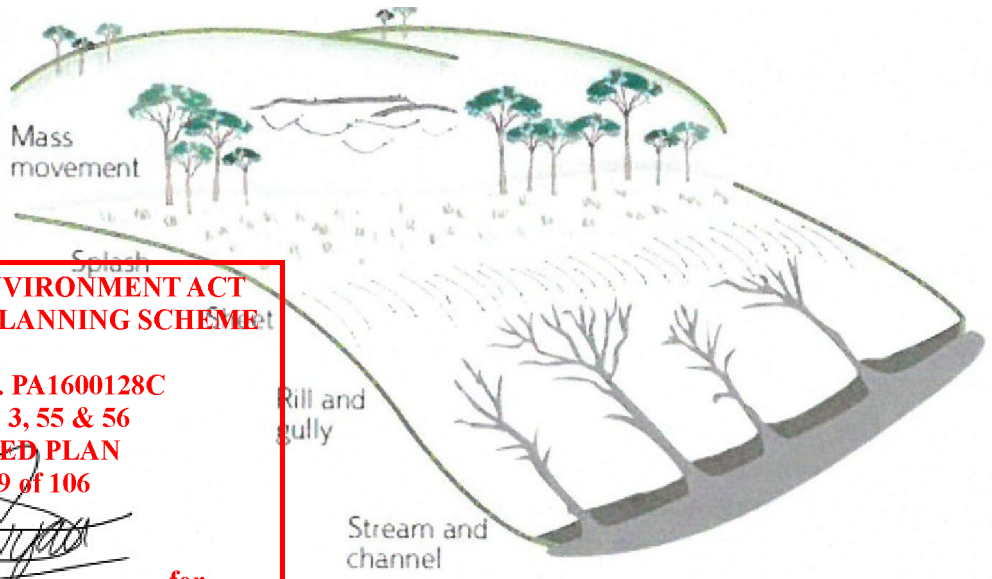


FIGURE 5-1 TYPES OF EROSION (NSW DPI, 2009)

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**5.1 SEDIMENT, EROSION AND WATER QUALITY CONTROL MEASURES**

Throughout the operational phase, permanent erosion control features that were implemented during construction shall be monitored during operation and rehabilitated as necessary for any evidence of compromise or failure of rehabilitation measures.

The following measures were deployed during construction to continue through the operational phase, to prevent environmental effects to surface waters through the management of erosion and sedimentation:

- Monitoring of drainage systems and sediment control devices;
- Any future earthworks will be planned to occur during drier months and avoid during heavy rain events;
- Maintenance of erosion and sediment controls in accordance with the Geology and Hydrology Assessment Report (RES Group, 2016);
- Ensure appropriate disposal of effluent from onsite staff facilities;
- Minimise risk of chemical spills and ensure prompt and effective clean-up of any accidental spills; and
- Vehicles onsite to use established tracks.

**5.1.1 STEEP BATTERS / SLOPES**

Steep batters were implemented during construction for sediment pollution control. The topsoil of steep batters can be retained through horizontal boards, mesh, branches, logs or other suitable material held and secured by vertical stakes, rods or other methods. Fibre mesh or mulch to be pinned firmly onto the batters can also be undertaken to trap the topsoil.

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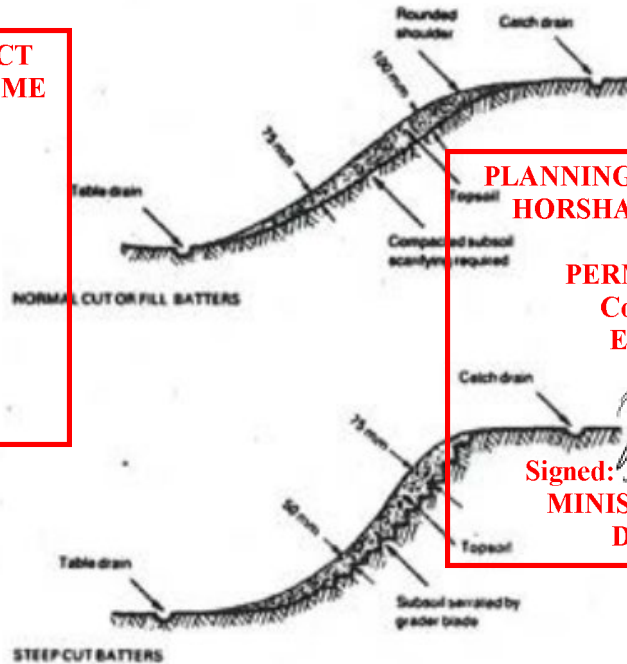
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FIGURE 5-2 TECHNIQUES TO RETAIN TOPSOIL ON BATTERS (RES GROUP, 2017)

### 5.1.2 DIVERSION (SPOON) DRAINS

- Subsurface drainage systems can include gravel filled (dutch) drains, slotted or perforated pipes along gravel filled trenches and thick filter membrane materials; and
- Drains shall be maintained to divert expected flow levels and to discharge to vegetated areas to allow water to spread without causing erosion.

### 5.1.3 SEDIMENTATION BASINS

Sediment traps/basins prevent eroded soil from leaving the property and / or entering a permanent watercourse.

- Sedimentation basins shall be appropriately sized to handle a one-in-two-year storm event with an intensity of six hours in correlation to the catchment size;
- Once the basin reaches 60% capacity, the sediment will need to be removed and stabilised; and
- The basins shall be constructed (if required) as per the layout in **Figure 5-3**.



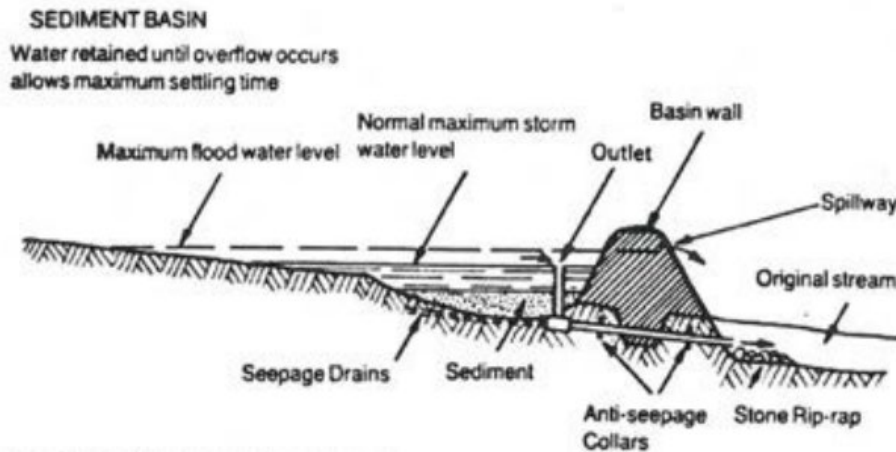


FIGURE 5-3 SEDIMENTATION BASIN LAYOUT (RES GROUP 2017)

5.1.4 VEGETATION STRIPS

Vegetation strips are bands of permanent, dense, low vegetation planted across slopes to intercept runoff before it develops into a concentrated flow and trap sediment before it has a chance to move into watercourses. Vegetation strips are most useful where the land use precludes permanent groundcover.

5.1.5 EARTHEN BANKS

Earthen Banks can be used to divert clean water round disturbed soil to avoid the soil becoming contaminated with sediments. Banks are used to break up slopes into shorter lengths to reduce depth and speed of runoff flow, and convey water to a stable watercourse, water storage or water absorption area. They also reduce peak runoff flows from catchments by slowing the speed of the water and forcing it to travel longer distances to move through the property.

The shape and type of the bank depends on the situation and land use and the need for trafficability by different types of machinery however generally:

- The channel created by the bank shall be large enough to carry runoff from heavy rain; and
- The bank outlet shall be designed to discharge water without causing more erosion i.e to a well vegetated and lightly sloping area (see **Figure 5-4**).

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FIGURE 5-4 SPREADING WATER FROM A GRADED BANK (RES GROUP, 2017)

Depending on the slope grade, different bank slopes shall be adopted, see the table below.

TABLE 5-1 BANK SHAPE RECOMMENDATION FOR DIFFERENT SLOPES

Bank Shape	Land Slope	Slope of bank batter to channel	Example
Broad	0 – 3%	1:6 or flatter	
Semi-broad	3 – 8%	1:4	
Peaked	8 – 20%	1:1.15	

5.2 WATER CONTAMINATION AND STORMWATER MANAGEMENT

A register of potential sources of contamination of the surrounding environment associated with the operation of the MWWF shall be developed and maintained. As a minimum the list shall include the following potential pollutants to waterways and stormwater:

- Petrochemical fuels (diesel, petrol);
- Hydraulic oils;
- Soaps and detergents; and
- Soil wash outs on site from wash down area.



## 6. REHABILITATION

Post-construction, the disturbed areas were rehabilitated as follows:

- The original surface contours were restored as far as possible;
- Soil was placed back in its original profiles;
- Vegetation was stabilised;
- Sediment controls were removed when assessed as no longer required; and
- Permanent erosion control features shall be monitored during operation and rehabilitated as necessary.

## 7. MONITORING AND REPORTING

Erosion and sediment controls shall only be removed once the area of disturbance is deemed to have stabilised.

Remediated areas will be monitored during the operational phase for any evidence of compromise or failure of rehabilitation measures including evidence of soil erosion, subsidence of backfilled trenches and discharge of turbid water. Problems noted will be rectified immediately.

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## 8. REFERENCES

NSW Department of Primary Industries, 2009, Saving Soil - A landholder's guide to preventing and repairing soil erosion.

RES, 2016, Murra Warra Wind Farm - Geology and Hydrology Assessment Report. 1 June 2016.

EPA Victoria, 2003, Water Quality Objectives for Rivers and Streams - Ecosystem Protection

EPA Victoria, 2009, A Guide to the sampling and analysis of water, wastewaters, soils and wastes, Publication IWRG701





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## Subplan B: Hydrocarbon and Hazardous Substances Plan





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PREPARED FOR



Murra Warra Project Co Pty Ltd as  
trustee for the Murra Warra Project  
Trust

DATE

17 November 2023

REFERENCE

0691524

# Murra Warra Wind Farm

## Hydrocarbon and Hazardous Substances Plan



## DOCUMENT DETAILS

DOCUMENT TITLE	Murra Warra Wind Farm
DOCUMENT SUBTITLE	Hydrocarbon and Hazardous Substances Plan
PROJECT NUMBER	0691524
Date	17 November 2023
Version	A
Author	E Chung
Client name	Murra Warra Project Co Pty Ltd as trustee for the Murra Warra Project Trust

## DOCUMENT HISTORY

VERSION	REVISION	AUTHOR	REVIEWED BY	NAME	DATE	COMMENTS
Final	1	K Garthwaite	RES Group	RES Group	29.03.2017	Final for endorsement
ERM APPROVAL TO ISSUE						
Draft	2	E Chung	M Guy	B George	26.09.2023	5-yearly update draft for Client review
Final	A	E Chung	M Guy	J Luk	17.11.2023	Final for endorsement

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# Murra Warra Wind Farm

## Hydrocarbon and Hazardous Substances Plan

0691524

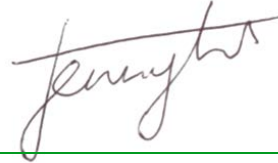
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## ACRONYMS AND ABBREVIATIONS

Name	Description
DEECA	Department of Energy, Environment and Climate Action (Victoria)
DEDJTR	Department of Economic Development, Jobs, Transport and Resources (Victoria)
DPI	Department of Primary Industries' (Victoria)
EPA	Environment Protection Authority Victoria
EPC	Engineer, Procure, Construct
ERM	Environmental Resources Management Pty Ltd
FPERP	Fire Prevention and Emergency Response Plan
GHS	Globally Harmonised System of Classification and Labelling of Chemicals
HHSP	Hazardous and Hydrocarbon Substances Plan
LGA	Local Government Area
MWWF	Murra Warra Wind Farm
MW1	Murra Warra 1
MW2	Murra Warra 2
MSDS	Material Safety Data Sheets
OEMP	Operational Environmental Management Plan
PPE	Personnel Protective Equipment
RES	RES Australia Pty Ltd
SDS	Safety Data Sheet
The Project	Murra Warra Wind Farm
WTGs	Wind Turbine Generators

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## 1. INTRODUCTION

The Hydrocarbon and Hazardous Substances Plan (**HHSP**) was initially prepared in March 2017 by RES Australia Pty Ltd (**RES**).

MWWF was developed and constructed in two stages - known as Murra Warra 1 (**MW1**) and Murra Warra 2 (**MW2**) for the purpose of this Plan. RES was the project developer and hence was the key entity during the development phase. When entering into construction in late 2017, however, specific commercial entities were established for each stage, to own, construct and operate MW1 and MW2. Construction was effectively completed in late 2022. The two stages are now in operation and are independent of each other in many respects. The Project's planning permit, however, was granted to the overall facility (MW1 and MW2); hence this Plan is applicable to both stages.

Environmental Resources Management Australia Pty Ltd (**ERM**) has been engaged by Murra Warra Wind Farm Project Co Pty Ltd as trustee for the Murra Warra Project Trust to undertake a 5-yearly review and update of this Plan pursuant to the Murra Warra Wind Farm Planning Permits including No. PA1600129, No. PA1600127B and No. PA1600128C issued by the Horsham Rural City Council and Yarrambiack Shire Council on 21 November 2016.

### 1.1 BACKGROUND

The Murra Warra Wind Farm (**the Project or MWWF**) comprise 4,250 ha of land located within the Kewell, Blackheath and Murra Warra districts. The Project is located in the Wimmera region approximately 25 km north of Horsham and 15 km south of Warracknabeal. The entirety of the Project site is located on agricultural land which has been heavily cleared, and the predominant activity that remains are broad acre cropping and grazing.

The MWWF involved the construction of:

- 99 wind turbine generators (**WTGs**) and their associated footings and foundations, where 61 WTGs are located within the Yarriambiack Local Government Area (**LGA**) and 38 WTGs are located within the Horsham LGA with a combined total generation capacity of 434.7 megawatts;
- New and upgraded access tracks;
- Up to four permanent anemometry masts;
- Approximately 75 km of underground cabling;
- Approximately 18 km of overhead cabling and up to two intermediate collector stations;
- Terminal station and connection to AusNet Services' 220 kV high voltage transmission line located in the centre of the site;
- Operations and maintenance facility; and
- Temporary construction compound, concrete batching plant(s) and laydown areas - these facilities were removed, and the areas rehabilitated, upon completion of construction.

## 2. PLAN PURPOSE

This HHSMP shall be read in conjunction with the Project’s overarching Operational Environmental Management Plan (**OEMP**).

### 2.1 PLANNING PERMIT

In total, the Project has three Planning Permits:

- Horsham Rural City Council Permit No. PA1600127B;
- Yarriambiack Shire Council Permit No. PA1600128C; and
- Yarriambiack Shire Council Permit No. PA1600129<sup>1</sup>.

The Project was granted permits No. PA1600127B and No. PA1600128C on 21 November 2016 (last amended 15 February 2023) and received its planning conditions from Horsham Rural City Council and Yarriambiack Shire Council for the development and use of land for a wind energy facility and associated buildings and works, removal of native vegetation and business identification signage.

This HHSMP has been prepared in order to satisfy the requirements of Conditions 47 Planning Permits No. PA1600127B and No. PA1600128C where the terms of conditions relating to this HHSMP are identical.

**TABLE 2-1 SUMMARY OF CONDITIONS FROM PLANNING PERMIT PA1600127B AND PA1600128C RELEVANT TO THIS HHSMP**

Condition number	Compliance requirement	Relevant Plan section
47	The Environmental Management Plan must include a Hydrocarbon and Hazardous Substances Plan. The Hydrocarbon and Hazardous Substances Plan must include:	This Plan
47 (a)	Procedures for any on-site, permanent post-construction storage of fuels, lubricants, waste oil or other hazardous substances or potential contaminants to be in bunded area;	Section 5
47 (b)	Contingency measures to ensure that any chemical or oil spills are contained on-site and cleaned up in accordance with EPA requirements.	Section 4

### 2.2 OBJECTIVES OF THIS MANAGEMENT PLAN

The objectives of this HHSMP are to:

- Provide a framework of requirements for the storage and handling of hydrocarbons and hazardous chemicals during the operation and any future works associated to the MWWF, and for associated corrective actions; and
- Address specific requirements in the event of a loss of containment of such as substance, to be undertaken in conjunction with the requirements of the OEMP and other relevant sub-plans.

<sup>1</sup> Planning Permit No. PA1600129 was for the use and development of land for a utility sub-station (substation) and business identification signage and does not include any conditions relevant to the Project’s HHSMP.

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### 3. APPLICABLE LEGISLATION

Key legislation, policy requirements and standards relevant to the management of sediment, erosion and water quality and are applicable to the Project are as follows:

#### Victorian legislation:

- *Dangerous Goods Act 1985;*
- *Dangerous Goods (Storage and Handling) Regulations 2022;*
- *Planning and Environment Act 1987; and*
- *Environment Protection Act 2017.*

#### Standards and Guidance:

The Project will also follow the government and industry standards and procedural guidelines for the identification, prevention and management of biosecurity risks listed below:

- Environment Protection Authority (**EPA**) Publication 1698 – Liquid storage and handling guidelines;
- EPA Publication 1915 – Contaminated land policy;
- EPA Publication 1834 – Civil construction, building and demolition guide;
- Australian Dangerous Goods Code (National Transport Commission, 2018);
- AS1940 – The storage and handling of flammable and combustible liquids; and
- AS3822 – The storage and handling of mixed classes of dangerous goods in packages and intermediate bulk containers.

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## 4. IDENTIFICATION OF POTENTIAL HYDROCARBON AND HAZARDOUS SUBSTANCES INCIDENTS

Throughout operation of the MWWF, small quantities of hazardous materials will be stored and used onsite. These materials will require careful management during their use and storage in order to protect personnel and the environment.

The following has been identified to have the potential to release of hazardous materials:

- From nacelle or transformer;
- During transport of the materials;
- Loss of containment of site wastes i.e wastewater and sewage;
- From storage rooms; or
- Loss of containment of chemicals on or off site i.e fuels and lubricants.

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### 4.1 MITIGATION OF INCIDENTS

Mitigation procedures specific to materials will be governed by the appropriate Material Safety Data Sheets (**MSDS**). Incidents or accidents involving the mishandling, transportation or inadequate storage of hazardous substances will be investigated and appropriate remedial action implemented including the following key steps:

1. Identify incident or non-conformance.
2. Immediately rectify if safe to do so, based on MSDS instructions for the materials in question.
3. Inform appropriate persons, including internal and external stakeholders.
4. Complete incident register and determine appropriate corrective actions.
5. Implement correction actions.

#### 4.1.1 PHYSICAL CONTAINMENT

A loss of containment of hazardous substances will initially be controlled by bunding. Bunding and compound requirements are defined in the AS1940 and shall be adequate to contain leakage or spillage and prevent it from contaminating soil or drainage systems.

Specifically, capacity will be the size of the largest storage vessel plus any fire water over a 20 minute period.

Loss of containment and associated ignition risk will be managed through Section 7 of the Project’s Fire Prevention and Emergency Response Plan (**FPERP**). This includes ignition and fuel source management.

#### 4.1.2 CLEAN UP

Procedures for handling potential release of specific hydrocarbon and hazardous substances on site will be guided by information contained in the relevant MSDS. Employee handling, transporting or utilising hazardous materials will be trained in emergency response for spill events.

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Spill cleanup kits will be kept within the vicinity where hazardous materials are used and stored. A spillage kit will consist of:

- A metal bin with a tightly-fitting lid;
- Broom, shovel, face shield, chemically-resistant boots and gloves; and
- A suitable respirator.

The following steps shall be taken in response to a hazardous substance spill that does not pose a threat to safety:

1. Attend to the spill immediately, no matter how small;
2. If it is safe to do so, stop the spill at its source;
3. Contact the emergency services if the spill involves a hazardous substance (such as a flammable or toxic substance) or if you suspect that the spill will escape to the environment;
4. If the spill is not contained, use spill control and adsorbent materials over the entire spill area to contain the spill if it is safe to do so;
5. Ensure that any absorbent materials and other equipment used to clean up spills are disposed of appropriately;
6. While spills should not be hosed away, any water used for cleaning up and decontaminating spills needs to be treated as contaminated waste water;
7. Where possible, spills should be covered during rainfall to the extent that it does not compromise clean-up activities;
8. Record all incidents of spills and ensure that they are reported to the Site Supervisor;
9. Notify regulatory authority if spill triggers regulatory reporting benchmarks
10. Investigate the cause of each spill and ensure that precautionary action is implemented to reduce the risk of a similar incident occurring; and
11. Replenish spill kit materials.

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**4.1.3 EMERGENCY CONTACTS**

The Site Supervisor shall be contacted as soon as practicable following detection of any release or non-conformance. Emergency contact details are provided in the table below.

**TABLE 4-1 EMERGENCY CONTACT DETAILS**

<b>Name of Organisation</b>	<b>Office/ Contact</b>	<b>Phone Number</b>
Victoria Police	Emergency	000
Ambulance Victoria	Emergency	000
Country Fire Authority (CFA)	Emergency	000
Country Fire Authority (CFA)	District 17 Headquarters Horsham	(03) 5762 1700
Yarriambiack Shire Council	Switchboard	(03) 5398 0100 (Municipal Office)
Horsham Rural City Council	Switchboard	(03) 5382 9777 (Civic Centre)



### 5. MANAGEMENT PROCEDURES

The storage and handling of hazardous materials are set out in the following documents:

- Australian Dangerous Goods Code (ADG Code) (National Transport Commission, 2018);
- AS1940 – The storage and handling of flammable and combustible liquids; and
- AS3822 – The storage and handling of mixed classes of dangerous goods in packages and intermediate bulk containers.

The following criteria outline how storage facilities for hazardous materials will be designed in accordance with the documents stated above in order to reduce any adverse risks to the environment:

- Stored chemicals and waste materials will be confined to a hazardous material storage area in the operations and maintenance facility;
- The hazardous material storage area will be located away from waterways or other areas where spills may cause environmental damage;
- The permanent operations and maintenance facility will contain a purpose built hazardous substance container that complies with AS1940 - Storage of Handling of Flammable and Combustible Liquids;
- A Safety Data Sheet (**SDS**) register will be available and maintained, listing all hazardous substances stored and in use onsite;
- Ensure that adequate spill kits and liquid containment equipment are located at the storage area; and
- Hydrocarbon and hazardous substances will be labelled according to signage designated by the Globally Harmonised System of Classification and Labelling of Chemicals (**GHS**).

Minor storage on open land will adhere to the following:

- Liquid will be kept at least 1 m from any boundary, workshop, dwelling or protected place, body of water, watercourse or environmentally sensitive area;
- The ground around the storage area will be kept clear of combustible vegetation or refuse for a distance of a least 3 m;
- Any potential flow of spillage will be prevented from reaching a protected place, watercourse or property boundary by such means as the use of natural ground slope, or the provision of a diversion channel, kerb or bund.

Site Personnel will wear appropriate personnel protective equipment (**PPE**) in accordance with the protective measures identified on the MSDS when dealing with hazardous substances, including:

- Safety glasses;
- Coveralls;
- Safety boots; and
- Gloves.

The MSDS will be required for all hazardous substances kept on site and will provide specific guidance on handling of hazardous substances.

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## 6. CONTAMINANT REGISTER

A register of all potential contaminants and hazardous materials imported to site for storage will be compiled and maintained throughout the operational phases. This register will as a minimum identify:

- Description of material;
- Storage location;
- Verification exterior labelling in place;
- Emergency waste management procedure; and
- Specialist clean up contractor contact details.

All hazardous materials shall be handled and stored in a manner which mitigates risk of spillage and accidental contamination of drainage routes. Hazardous materials will be disposed as prescribed industrial waste (**PIW**) and managed by an EPA Victoria accredited waste management contractor.



## 7. REFERENCES

EPA Victoria, 2018, Publication 1698 – Liquid storage and handling guidelines

EPA Victoria, 2021, Publication 1915 – Contaminated land policy

EPA Victoria, 2023, Publication 1834 – Civil construction, building and demolition guide

National Transport Commission, 2018, Australian Code for the Transport of Dangerous Goods by Road and Rail, Edition 7.8

Standards Australia, 2004, Australian Standard 1940:2004 – The storage and handling of flammable and combustible liquids

Standards Australia, 2007, Australian Standard 3833:2007 – The storage and handling of mixed classes of dangerous goods, in packages and intermediate bulk containers





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## Subplan C: Fire Prevention and Emergency Response Plan

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YARRIAMBIACK PLANNING SCHEME**

**PERMIT NO. PA1600128C  
Conditions 3, 55 & 56  
ENDORSED PLAN  
Sheet 72 of 106**

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**MINISTER FOR PLANNING**  
Date: 12 April 2024

PREPARED FOR



Murra Warra Project Co Pty Ltd as  
trustee for the Murra Warra Project  
Trust

DATE  
17 November 2023

REFERENCE  
0691524

# Murra Warra Wind Farm

## Fire Prevention and Emergency Response Plan



**DOCUMENT DETAILS**

DOCUMENT TITLE	Murra Warra Wind Farm
DOCUMENT SUBTITLE	Fire Prevention and Emergency Response Plan
PROJECT NUMBER	0691524
Date	17 November 2023
Version	A
Author	E Chung
Client name	Murra Warra Project Co Pty Ltd as trustee for the Murra Warra Project Trust

**DOCUMENT HISTORY**

VERSION	REVISION	AUTHOR	REVIEWED BY	NAME	DATE	COMMENTS
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ERM APPROVAL TO ISSUE						
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Final	A	E Chung	M Guy	J Luk	17.11.2023	Final for endorsement

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# Murra Warra Wind Farm

## Fire Prevention and Emergency Response Plan

0691524

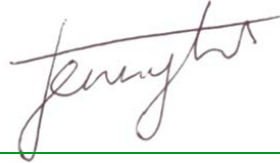
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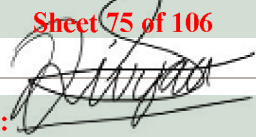
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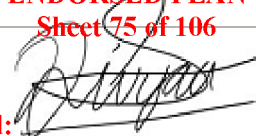
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## ACRONYMS AND ABBREVIATIONS

Name	Description
BPA	Bushfire Prone Area
CFA	Country Fire Authority
EPA	Environment Protection Authority Victoria
EPC	Engineer, Procure, Construct
ERM	Environmental Resources Management Australia Pty Ltd
FPERP	Fire Prevention and Emergency Response
LGA	Local Government Area
MWWF	Murra Warra Wind Farm
MW1	Murra Warra 1
MW2	Murra Warra 2
OEMP	Operational Environmental Management Plan
RES	RES Group
The Project	Murra Warra Wind Farm
WTGs	Wind Turbine Generators

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## 1. INTRODUCTION

The Fire Prevention and Emergency Response (**FPERP**) was initially prepared in May 2017 by RES Group (**RES**) in consultation with the Country Fire Authority (**CFA**).

MWWF was developed and constructed in two stages - known as Murra Warra 1 (**MW1**) and Murra Warra 2 (**MW2**) for the purpose of this Plan. RES was the project developer and hence was the key entity during the development phase. When entering into construction in late 2017, however, specific commercial entities were established for each stage, to own, construct and operate MW1 and MW2. Construction was effectively completed in late 2022. The two stages are now in operation and are independent of each other in many respects. The Project's planning permit, however, was granted to the overall facility (MW1 and MW2); hence this Plan is applicable to both stages.

Environmental Resources Management Australia Pty Ltd (**ERM**) has been engaged by Murra Warra Project Co Pty Ltd as trustee for the Murra Warra Project Trust undertake a 5-yearly review and update of this Plan pursuant to the Murra Warra Wind Farm Planning Permits including No. PA1600129, No. PA1600127B and No. PA1600128C issued by the Horsham Rural City Council and Yarrambiack Shire Council on 21 November 2016.

### 1.1 BACKGROUND

The Murra Warra Wind Farm project (**the Project or MWWF**) comprise 4,250 ha of land located within the Kewell, Blackheath and Murra Warra districts. The Project is located in the Wimmera region approximately 25 km north of Horsham and 15 km south of Warracknabeal. The entirety of the Project site is located on agricultural land which has been heavily cleared, and the predominant activity that remains are broad acre cropping and grazing.

The MWWF involved the construction of:

- 99 wind turbine generators (**WTGs**) and their associated footings and foundations, where 61 WTGs are located within the Yarriambiack Local Government Area (**LGA**) and 38 WTGs are located within the Horsham LGA with a combined total generation capacity of 434.7 megawatts;
- New and upgraded access tracks;
- Up to four permanent anemometry masts;
- Approximately 75 km of underground cabling;
- Approximately 18 km of overhead cabling and up to two intermediate collector stations;
- Terminal station and connection to AusNet Services' 220 kV high voltage transmission line located in the centre of the site;
- Operations and maintenance facility; and
- Temporary construction compound, concrete batching plant(s) and laydown areas - these facilities were removed, and the areas rehabilitated, upon completion of construction.

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**Date: 12 April 2024**

CLIENT: Murra Warra Project Co Pty Ltd as trustee for the Murra Warra Project Trust  
PROJECT NO: 0691524 DATE: 17 November 2023 VERSION: A

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## 2. PLAN PURPOSE

The FPERP shall be read in conjunction with the Project’s overarching Operational Environmental Management Plan (**OEMP**).

### 2.1 PLANNING PERMIT

In total, the Project has three Planning Permits:

- Horsham Rural City Council Permit No. PA1600127B;
- Yarriambiack Shire Council Permit No. PA1600128C; and
- Yarriambiack Shire Council Permit No. PA1600129<sup>1</sup>.

The Project was granted permits No. PA1600127B and No. PA1600128C on 21 November 2016 (last amended 15 February 2023) and received its planning conditions from Horsham Rural City Council and Yarriambiack Shire Council for the development and use of land for a wind energy facility and associated buildings and works, removal of native vegetation and business identification signage.

This Plan has been prepared in order to satisfy the requirements of Conditions 48 of Planning Permits No. PA1600127B and No. PA1600128C where the terms of conditions relating to this FPERP are identical.

**FIGURE 2-1 SUMMARY OF CONDITIONS FROM PLANNING PERMIT PA1600127B AND PA1600128C RELEVANT TO THE FPERP**

Condition number	Compliance requirement	Relevant Plan section
48	The Environmental Management Plan must include a Fire Prevention and Emergency Response Plan prepared in consultation with and to the satisfaction of the CFA and DELWP. Consultation with the CFA must include consultation at the region and local level. The Yarriambiack Shire Council must also be consulted in the preparation of the plan. The Fire Prevention and Emergency Response Plan must be generally in accordance with the <i>Emergency Management Guidelines for Wind Energy Facilities</i> – CFA May 2015 and must include:	This Plan
48 (a)	Consideration of weather based threshold criteria for brigade call out and use of aerial appliances;	Section 7.1
48 (b)	Criteria for the provision of static water supply tanks solely for fire-fighting purposes, including minimum capacities, appropriate connections and signage;	Section 7.5
48 (c)	Procedures for vegetation management, fuel control and the provision of fire-fighting equipment during declared fire danger periods;	Section 7
48 (d)	Minimum standards for access roads and tracks to allow access for fire fighting vehicles, including criteria for access to static water supply tanks for fire-fighting vehicles;	Section 7.5

<sup>1</sup> Planning Permit No. PA1600129 was for the use and development of land for a utility installation (substation) and business identification signage and does not include any conditions relevant to the Project’s FPERP.

PLAN PURPOSE

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Condition number	Compliance requirement	Relevant Plan section
48 (e)	A requirement that, within one month after the commencement of the operation of the wind energy facility, the operator of the wind energy facility facilitates a familiarisation visit to the site and explanation of emergency services procedures for:	Section 9
48 (f)	The CFA (including headquarters level, the CFA Regional Office and local volunteer brigades as specified by the CFA Regional Office): <ul style="list-style-type: none"> <li>i. Rural Ambulance Victoria</li> <li>ii. Horsham Rural City Council’s Municipal Emergency Management Committee; and</li> <li>iii. Victoria Police</li> </ul>	Section 9
48 (g)	Subsequent familiarisation sessions for new personnel of the organisations referred to in condition 48(f) on a periodic basis as required;	Section 9
48 (h)	If requested, training of personnel of the organisations referred to in condition 48(f) in relation to suppression of wind energy facility fire.	Section 9

## 2.2 OBJECTIVES OF THIS MANAGEMENT PLAN

Although not inherently susceptible to, or a source of fire, the presence of electrical and mechanical equipment creates a potential source of ignition in a bushfire prone landscape.

The objectives of the FPERP are to:

- Reduce the likelihood of a bushfire ignition within the site from the operation of the Wind Farm Outline procedures to identifying, preventing and managing biosecurity risks;
- Reducing the likelihood that any fire that does start will spread through the site and onto neighbouring properties; and
- Reduce the impact of a bushfire, originating within or outside of the site, on the wind farm itself.

Bushfire risk associated to decommissioning are not considered in this FPERP, a fire management plan will be prepared for decommissioning activities in the future.


## 3. APPLICABLE LEGISLATION

The FPERP has been developed in accordance with:

- The conditions of the Project’s Planning Permit;
- CFA ‘Emergency Management Guidelines for Wind Energy Facilities’ (CFA, 2015) which has recently been updated to ‘Design Guidelines and Model Requirements. Renewable Energy Facilities’ (CFA, 2023); and
- Policy and planning guidelines for the development of wind energy facilities in Victoria (Department of Environment, Land, Water and Planning (DELWP), 2016).

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## 4. FACILITY DETAILS

The entire site of the MWWF is located in the Bushfire Prone Area (**BPA**). There is a utility area comprising of an operations building, car parking, warehousing/ workshop facility and an external yard area for storage which may include a bunded area for fuel storage, and other ancillary equipment.

Overhead and underground internal electrical reticulation system are present on site. Internally, electricity is distributed from each wind turbine to the Terminal Station via a network of medium voltage 33 kV underground and overhead cables (see **Figure 4-1** and **Figure 4-2**).

The wind turbines are located at distances of greater than 300 m apart to provide adequate distances for aerial firefighting equipment to access the site, in accordance with the CFA Guidelines (CFA, 2023).

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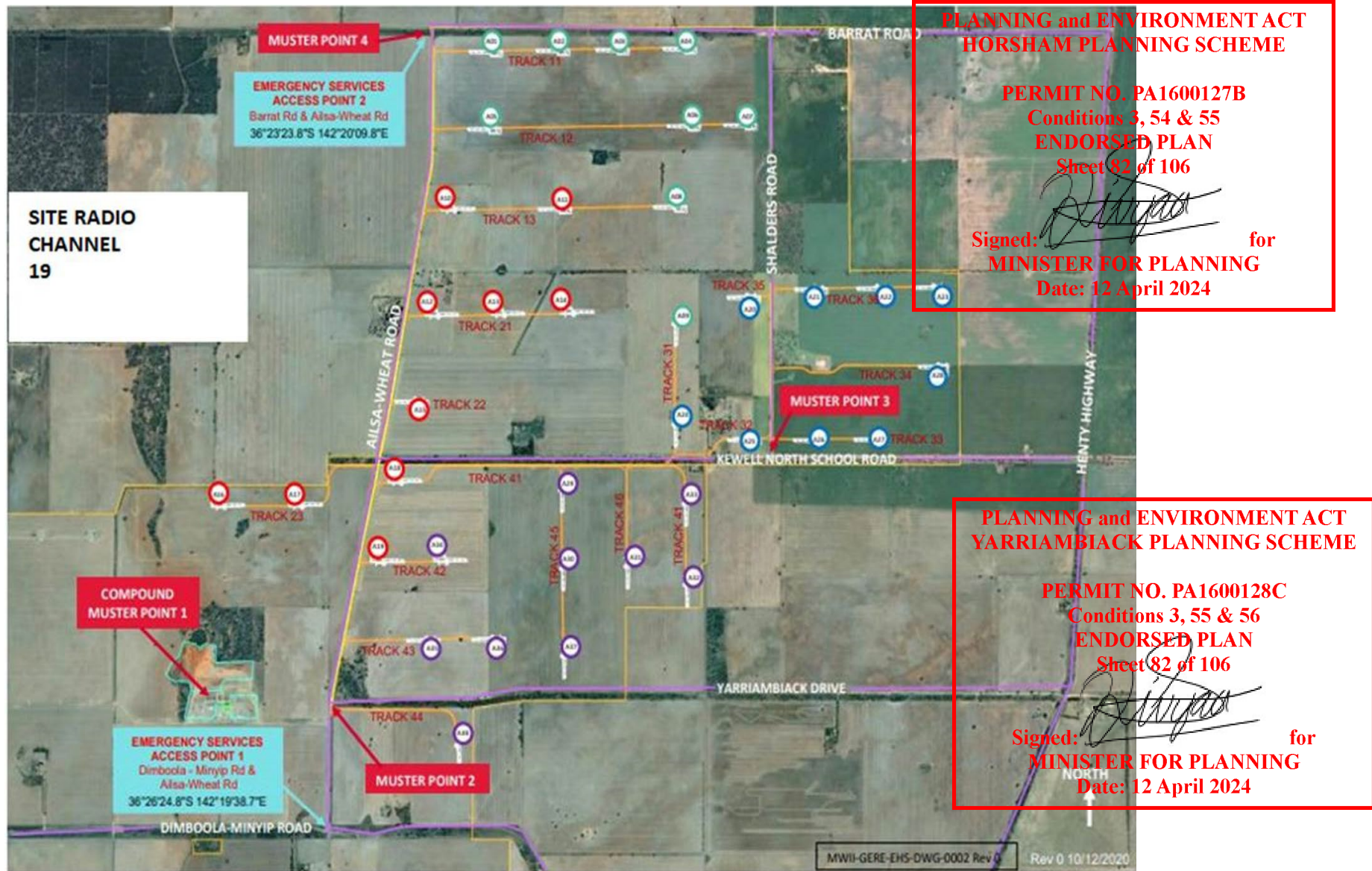


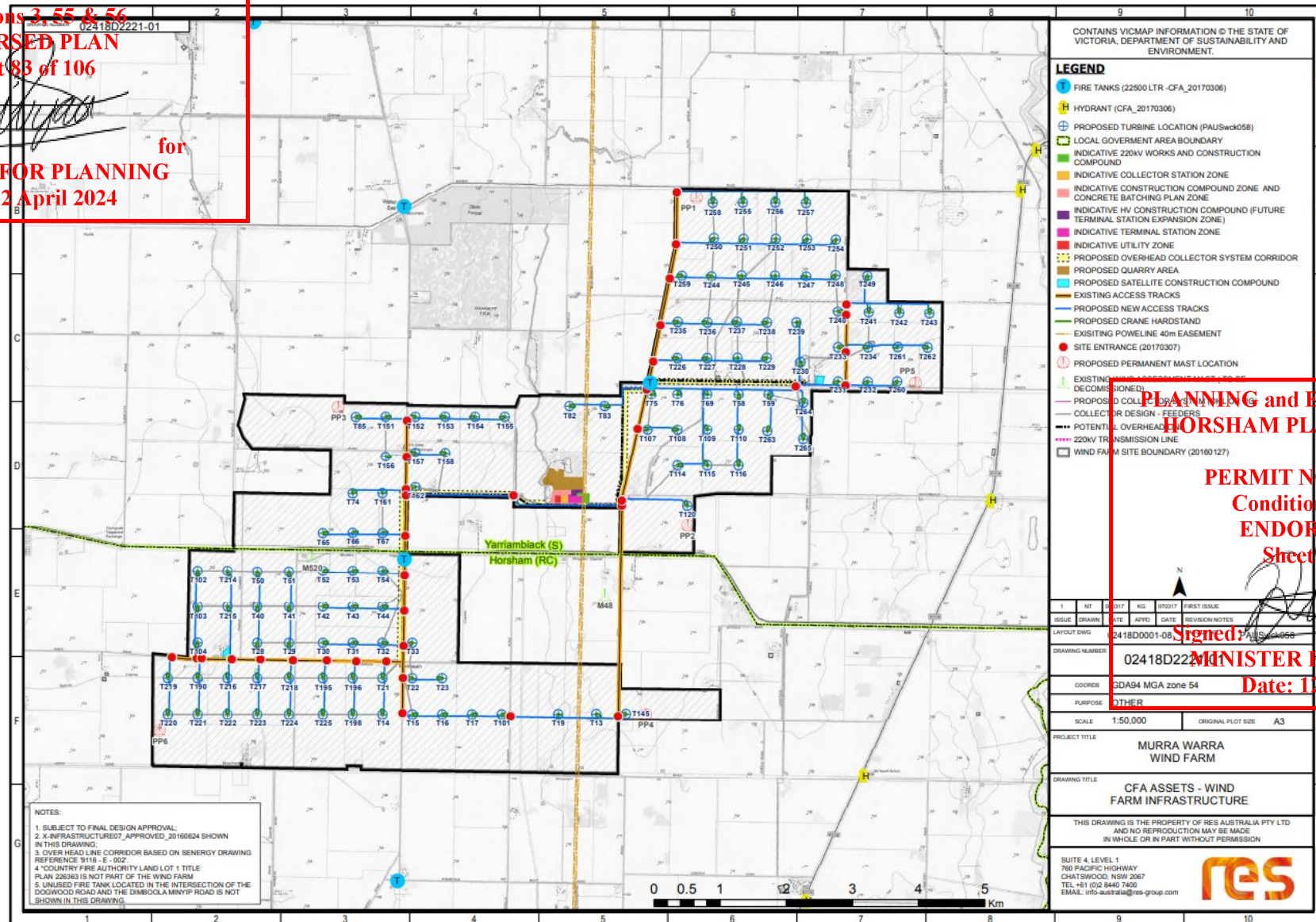
FIGURE 4-2 MW2 SITE LAYOUT PLAN WITH EMERGENCY ASSEMBLY POINT (DOWNER, 2017)



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**FIGURE 4-3 LOCATION OF FIRE FIGHTING EQUIPMENT (RES, 2017)**





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## 4.1 SITE ACCESS

Water supply tanks and hydrants solely for firefighting purposes are located on and close to the site as shown on **Figure 4-3**. Site access points to the turbines and other infrastructure are also shown in **Figure 4-3**.

## 5. CONTACT AND INFORMATION SOURCES

Emergency contact details for the MWWF will be given to the CFA Operations Manager at District 17 Headquarters in Horsham and will be displayed prominently at the main site entrance and at key access points.

### 5.1 OPERATOR CONTACT DETAILS

TABLE 5-1 KEY CONTACT DETAILS

Organisation	Contact	Contact Details
MWWF 24-hour Operations Control Centre (OCC)	RES Australia	(02) 8440 7400
O&M Contractor MW1	Siemens Gamesa Renewable Energy Site Supervisor Ash Marra	0482 952 782
O&M Contractor MW2	General Electric Site Supervisor Sam Kelly	0407 924 933
Asset Manager	RES Australia Asset Manager James Cooper	0427 375 311

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### 5.2 EMERGENCY CONTACTS

TABLE 5-2 EMERGENCY CONTACTS

Name of Organisation	Office/ Contact	Phone Number
Victoria Police	Emergency	000
Ambulance Victoria	Emergency	000
Country Fire Authority (CFA)	Emergency	000
Country Fire Authority (CFA)	District 17 Headquarters Horsham	(03) 5762 1700
State Emergency Service (SES)	State Emergency contact	132 500
Yarriambiack Shire Council	Switchboard	(03) 5398 0100 (Municipal Office)
Horsham Rural City Council	Switchboard	(03) 5382 9777 (Civic Centre)
Environment Protection Authority (EPA) Victoria	Incident notification	1800 372 842

## 6. BUSHFIRE RISK IDENTIFICATION

### 6.1 SCENARIOS

Severe bushfire weather in Victoria is typically associated with wind from the north, northwest, west or southwest. The most likely bushfire scenarios for a large landscape fire are an approach from those directions on a day of Extreme or higher fire danger. Similarly, an ignition on site could be driven by winds from these directions and spread from the site onto neighbouring land.

Identified potential fire incidents for the MWWF includes:

#### Turbines:

- Fire arising from turbine operation such as lightning strike, mechanical or electrical failure of nacelle or transformer components; and
- Fire arising from maintenance activities such as hot work.

#### Associated Infrastructure:

- Fire arising from maintenance activities such as hot work; and
- Fire arising from other personnel activities such as smoking.

There is also the potential for delayed emergency services to the site due to inappropriate access to the site or when they are unfamiliar with the site. Bushfire prevention measures detailed in this document are intended to minimise the possibility of ignition from these sources within the Wind Farm.

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## 7. BUSHFIRE MITIGATION MEASURES

A series of management measures have been identified in order to minimise the impacts on the known environmental values:

- Status water supply, location and signage requirements as specified in the CFA guidelines (CFA, 2023);
- Grass in the vicinity of the turbine towers will be kept short through continued grazing and regular weed spraying;
- A 2 m surround for all turbine towers are covered with crushed rock to reduce growth of vegetation and provide safe access. This is to be maintained for the duration of the Project;
- The turbines will be shut down when wind speed exceeds 27m/s and the temperature exceeds 40 Degrees Celsius;
- Ensure appropriate permits have been issued for any future works during Fire Danger Periods;
- Restrictions will be followed on Total Fire Ban days and high fire danger days (see [www.cfa.vic.gov.au](http://www.cfa.vic.gov.au));
- Machinery including winches are not operated on days of high fire danger;
- Fire extinguishers or fire fighting equipment are carried in vehicles. On high or above fire risk days, vehicles will carry fire suppression equipment comprising either

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- At least one knapsack spray pump filled with water, with a capacity of not less than 9 L.
- At least one water fire extinguisher, fully charged with water and maintained at correct pressure with a capacity of not less than 9 L.
- Vehicles with catalytic converters are prevented from entering the site on high fire danger days; and
- Smoking is restricted to prescribed areas.

**7.1 PROCEDURAL CONTROLS**

The CFA Guidelines (CFA, 2023) will be adhered to during Total Fire Ban days, specifically:

- No welding, grinding, charring, soldering or gas cutting will be performed on site;
- If possible the use of tractors, slashers, earth moving, excavating or road making machines within 9 m of grass, stubble, weeds, undergrowth or vegetation will be delayed to a non-fire ban or low fire risk day. If the equipment is to be used the following steps must be taken to ensure it is:
  - Free of faults and mechanical defects that could provide an ignition source.
  - Fitted with a spark arrester in working order.
  - Carry a fire expression equipment.
  - Vehicles associated with the facility will carry a fire extinguisher and make as a minimum when on site during the fire danger period.

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**7.2 FUEL LOAD MANAGEMENT**

Regulator maintenance of grass and / or weed growth will be carried within 5 m of the operations and maintenance building and gutters will be regularly inspected and cleared of debris.

In accordance with the CFA Guidelines (CFA, 2023), grass shall be kept no more than 100 mm in height and leaf litter no more than 10 mm deep for a distance of 30 m around buildings.

Land within the immediate vicinity of the turbines (at least 2 m) are covered with crushed rock, the turbine hardstands and access tracks will be weed controlled and kept devoid of vegetation.

**7.3 INFRASTRUCTURE**

The wind turbines are located at distances of greater than 300 m apart to provide adequate distances for aerial firefighting equipment to access the site, in accordance with the CFA Guidelines (CFA, 2023).

Additionally, the wind turbines incorporate a supervisory control system that continually interrogates the operational status and safe working of key components of each turbine and allows an operator to remotely monitor the turbines via a modem. This system will alert to the detection of smoke or heat.

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## 7.4 FIRE FIGHTING EQUIPMENT ONSITE

Fire fighting equipment will be provided throughout the life of the Project. Portable extinguishers will be in the following locations:

- The Operations and Maintenance building;
- All operation / maintenance vehicles;
- The substation switch room;
- Wind turbine ground platforms; and
- Wind turbine nacelles.

## 7.5 STATIC WATER SUPPLY REQUIREMENTS

These CFA water supply requirements are also available in *CFA Design Guidelines and Model Requirements: Renewable Energy Facilities* (CFA, 2023) available online. The following measures should be provided:

- Water access points shall be clearly identifiable and unobstructed to ensure efficient access;
- Static water storage tank installations shall comply with AS 2419.1: Fire hydrant installations – System design, installation and commission;
- The static water storage tank(s) shall be an above-ground water tank constructed of concrete or steel;
- The static water storage tank(s) shall be capable of being completely refilled automatically or manually within 24 hours;
- The static water storage tanks shall be located at vehicle access points to the facility and shall be positioned at least ten (10) metres from any infrastructure (solar panels, wind turbines, battery energy storage systems etc.);
- The hard-suction point shall be provided with a 150 mm full bore isolation valve equipped with a Storz connection, sized to comply with the required suction hydraulic performance. Adapters may be required to match the connection are: 125 mm, 100 mm, 90 mm, 75 mm, 65 mm Storz tree adapters with a matching blank end cap to be provided;
- The hard-suction point shall be positioned within four (4) metres to a hardstand area and provide a clear access for emergency services personnel;
- An all-weather road access and hardstand shall be provided to the hard-suction point. The hardstand must be maintained to a minimum of 15 tonne GVM, eight (8) metres long and six (6) metres wide or to the satisfaction of the CFA.
- The road access and hardstand must be kept clear at all times;
- The hard-suction point shall be protected from mechanical damage (e.g., bollards) where necessary;
- Where the access road has one entrance, an eight (8) metre radius turning circle shall be provided at the tank;
- An external water level indicator shall be provided to the tank and be visible from the hardstand area;
- Signage indicating '**FIRE WATER**' and the tank capacity shall be fixed to each tank (see **Figure 7-1** below); and
- Signage shall be provided at the front of entrance to the facility, indicating the direction to the static water tank (see **Figure 7-2** below).

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FIGURE 7-1 FIRE WATER SIGNAGE

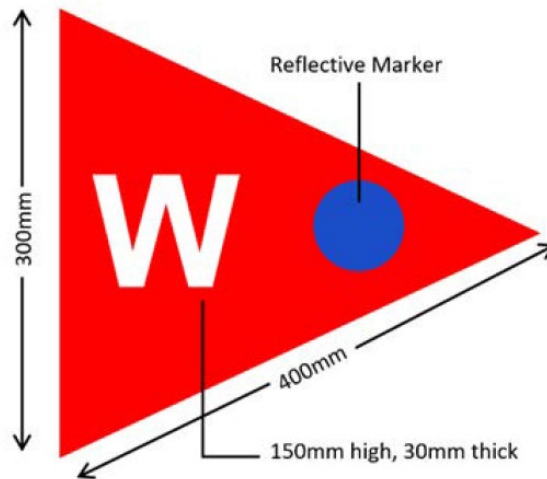


FIGURE 7-2 STATIC WATER TANK DIRECTION SIGNAGE

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## 8. EMERGENCY RESPONSE TO BUSHFIRE

Emergency response will be made up of the following elements:

- Static water supply;
- Informing appropriate persons; and
- Emergency services access.

In the unlikely event that a fire is initiated within the turbine tower, the fire should be contained within the tower itself.

Adequate access to and within the MWWF will be maintained to assist CFA in responding to and managing fires on site as shown on **Figure 4-3**.

### 8.1 DESIGNATED BUSHFIRE EMERGENCY ASSEMBLY POINT

In the event of a bushfire approaching the site and the declaration of a bushfire emergency by the Chief Warden, all people are to re-locate to the emergency assembly point at:

- The operations & maintenance office and substation area in the turbine area (see **Figure 4-1** and **Figure 4-2**).

Upon assembly, all people shall:

- Ensure that their presence has been accounted for with Chief Warden;
- Follow instructions from the Chief Warden or Emergency Services;
- Commence evacuation of the site if instructed.

## 9. TRAINING

Fire risk awareness induction will be provided to all operations and maintenance personnel and other visitors to the site. The Induction will include:

- An overview of the FPERP;
- Site layout including evacuation assembly points; and
- Emergency contact details.

An annual emergency exercise will be conducted to test and raise awareness of the FPERP.

Pursuant to Condition 48(g), training on, and familiarisation sessions with the site are to be conducted for all new personnel of the following organisations:

- Rural Ambulance Victoria;
- Victoria Police;
- Yarriambiack Shire Council’s Municipal Emergency Management Committee; and
- Horsham Rural City Council’s Municipal Emergency Management Committee.

Training for relevant CFA personnel in relation to the suppression of wind energy facility fires will also be provided if requested.

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## 10. MONITORING AND REPORTING

Each turbine will be inspected every year before the first of November to ensure the crushed rock/gravel area is clear of vegetation and other flammable items (i.e packaging, rubbish and oil containers). Periodic inspection will also include visual inspection of the broader site for presence of dry fuel.

A number of processes and procedures will be established to monitor and audit including:

- Inspection records;
- Auditing of the FPERP will be performed at a maximum of 2-yearly intervals;
- Asset performance and conditions audit will be performed every 3-years by MWWF;
- Monitoring and auditing the competence of the persons assigned to carry out inspections under the FPERP.

## 11. REFERENCES

Country Fire Authority, 2023, Design Guidelines and Model Requirements – Renewable Energy Facilities.

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## Subplan D: Biosecurity Management Plan





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PREPARED FOR



Murra Warra Project Co Pty Ltd as trustee for the Murra Warra Project Trust

DATE  
17 November 2023

REFERENCE  
0691524

# Murra Warra Wind Farm

## Biosecurity Management Plan



## DOCUMENT DETAILS

DOCUMENT TITLE	Murra Warra Wind Farm
DOCUMENT SUBTITLE	Biosecurity Management Plan
PROJECT NUMBER	0691524
Date	17 November 2023
Version	A
Author	E Chung
Client name	Murra Warra Project Co Pty Ltd as trustee for the Murra Warra Project Trust

## DOCUMENT HISTORY

VERSION	REVISION	AUTHOR	REVIEWED BY	NAME	DATE	COMMENTS
Final	2.2	Think Agri Pty Ltd	RES Group	RES Group	13.04.2017	Final for endorsement
ERM APPROVAL TO ISSUE						
Draft	3	E Chung	M Guy	B George	26.09.2023	5-yearly update draft for Client review
Final	A	E Chung	M Guy	J Luk	17.11.2023	Final for endorsement

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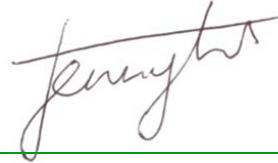
# Murra Warra Wind Farm

## Biosecurity Management Plan

0691524



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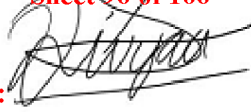
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## ACRONYMS AND ABBREVIATIONS

Name	Description
CaLP Act	<i>Catchment and Land Protection Act 1994</i>
DEECA	Department of Energy, Environment and Climate Action (Victoria)
DEDJTR	Department of Economic Development, Jobs, Transport and Resources (Victoria)
DPI	Department of Primary Industries' (Victoria)
EPC	Engineer, Procure, Construct
ERM	Environmental Resources Management Pty Ltd
LGA	Local Government Area
MWWF	Murra Warra Wind Farm
MW1	Murra Warra 1
MW2	Murra Warra 2
OEMP	Operational Environmental Management Plan
Plan	Biosecurity Management Plan
The Project	Murra Warra Wind Farm
VSTWP	Victorian Serrated Tussock Working Party
WTGs	Wind Turbine Generators

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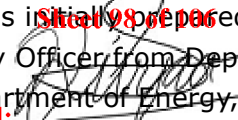
## 1. INTRODUCTION

The Murra Warra Wind Farm Biosecurity Management Plan (**Plan**) was initially prepared in April 2017 by Think Agri Pty Ltd in consultation with the Grains Biosecurity Officer from Department of Economic Development, Jobs, Transport and Resources (now Department of Energy, Environment and Climate Action).

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MWWF was developed and constructed in two stages - known as Murra Warra 1 (**MW1**) and Murra Warra 2 (**MW2**) for the purpose of this Plan. RES was the project developer and hence was the key entity during the development phase. When entering into construction in late 2017, however, specific commercial entities were established for each stage, to own, construct and operate MW1 and MW2. Construction was effectively completed in late 2022. The two stages are now in operation and are independent of each other in many respects. The Project's planning permit, however, was granted to the overall facility (MW1 and MW2); hence this Plan is applicable to both stages.

Environmental Resources Management Australia Pty Ltd (**ERM**) has been engaged by Murra Warra Project Co Pty Ltd as trustee for the Murra Warra Project Trust to undertake a 5-yearly review and update of this Plan pursuant to the Murra Warra Wind Farm Planning Permits including No. PA1600129, No. PA1600127B and No. PA1600128C issued by the Horsham Rural City Council and Yarrambiack Shire Council on 21 November 2016.

### 1.1 BACKGROUND

The Murra Warra Wind Farm project (**the Project or MWWF**) comprise 4,250 ha of land located within the Kewell, Blackheath and Murra Warra districts. The Project is located in the Wimmera region approximately 25 km north of Horsham and 15 km south of Warracknabeal. The entirety of the Project site is located on agricultural land which has been heavily cleared, and the predominant activity that remains are broad acre cropping and grazing.

The MWWF involved the construction of:

- 99 wind turbine generators (**WTGs**) and their associated footings and foundations, where 61 WTGs are located within the Yarriambiack Local Government Area (**LGA**) and 38 WTGs are located within the Horsham LGA with a combined total generation capacity of 434.7 megawatts;
- New and upgraded access tracks;
- Up to four permanent anemometry masts;
- Approximately 75 km of underground cabling;
- Approximately 18 km of overhead cabling and up to two intermediate collector stations;
- Terminal station and connection to AusNet Services' 220 kV high voltage transmission line located in the centre of the site;
- Operations and maintenance facility; and
- Temporary construction compound, concrete batching plant(s) and laydown areas. These facilities were removed, and the areas rehabilitated, upon completion of construction.

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## 2. PLAN PURPOSE

This Plan shall be read in conjunction with the Project’s overarching Operational and Environmental Management Plan (**OEMP**).

### 2.1 PLANNING PERMIT

In total, the Project has three Planning Permits:

- Horsham Rural City Council Permit No. PA1600127B;
- Yarriambiack Shire Council Permit No. PA1600128C; and
- Yarriambiack Shire Council Permit No. PA1600129<sup>1</sup>

The Project was granted permits No. PA1600127B and No. PA1600128C on 21 November 2016 (last amended 15 February 2023) and received its planning conditions from Horsham Rural City Council and Yarriambiack Shire Council for the development and use of land for a wind energy facility and associated buildings and works, removal of native vegetation and business identification signage.

This Plan has been prepared in order to satisfy the requirements of Conditions 50 and 51 of Planning Permits No. PA1600127B and No. PA1600128C where the terms of conditions relating to this Plan are identical.

#### TABLE 2-1 SUMMARY OF CONDITIONS FROM PLANNING PERMIT PA1600127B AND PA1600128C RELEVANT TO THIS PLAN

Compliance requirement	Relevant Plan section
The Environmental Management Plan must include a Biosecurity Management Plan to be prepared in consultation with DEDJTR and to the satisfaction of the responsible authority. The Biosecurity Management Plan must include:	This Plan
(a) Procedures to prevent biosecurity risks, which may include (but are not limited to): <ul style="list-style-type: none"> <li>i. The cleaning of all plant and equipment before transport onto and off the site; and</li> <li>ii. The use of material/products on site which are free of invasive plants and animals.</li> </ul>	Section 4 and 5
(b) A protocol for effective identification of biosecurity risks, early intervention to manage biosecurity risks, ongoing monitoring of biosecurity risks, trace-backs, and integrated control measures when entry, establishment or spread of specific risk targets is identified;	Section 5 and 6
(c) A requirement to comply with approved government or industry standards and procedures for the identification, prevention and management of biosecurity risks that apply from time to time, which include (but are not necessarily limited to): <ul style="list-style-type: none"> <li>i. The DEDJTR’s Invasive Plant and Animal Management Policy Framework (undated);</li> <li>ii. The DEDJTR’s Biosecurity Guidelines for Movement of Equipment Contractors Between Farms (Note Number: AG1171 published in January 2005 and updated in July 2009); and</li> <li>iii. The DEDJTR’s recommended standards and practices for managing viticulture biosecurity and plant biosecurity risks.</li> </ul>	Section 3

<sup>1</sup> Planning Permit No. PA1600129 was for the use and development of land for a utility installation (substation) and business identification signage and does not include any conditions relevant to the Project’s Biosecurity Management Plan.

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## 2.2 OBJECTIVES OF THIS MANAGEMENT PLAN

The objectives of this Plan are to:

- Manage the risk of animal and plant pests and diseases entering, emerging, establishing or spreading within or beyond the Project site; and
- Outline procedures to identifying, preventing and managing biosecurity risks.

The use of the term **pest** in this Plan, refers to all insects, mites, snails, nematodes, pathogens, and weeds that may harm plants or animals or their products.

## 3. APPLICABLE LEGISLATION

Key legislation, policy requirements and standards relevant to the management of sediment, erosion and water quality and are applicable to the Project are as follows:

### Commonwealth legislation:

- *Environment Protection and Biodiversity Conservation Act 1999.*

### Victorian legislation:

- *Catchment and Land Protection Act 1994;*
- *Agricultural and Veterinary Chemicals (Control of Use) Act 1992;*
- *Planning and Environment Act 1987;*
- *Livestock Disease Control Act 1994;* and
- *Plant Biosecurity Act 2010.*

### Standards and Guidance:

The Project will also follow the government and industry standards and procedural guidelines for the identification, prevention and management of biosecurity risks listed below:

- Department of Primary Industries' (**DPI**) (now Department of Energy, Environment and Climate Action) Invasive Plants and Animals Policy Framework (available at <http://agriculture.vic.gov.au/>);
- DEDJTR's Biosecurity Guidelines for Movement of Equipment Contractors Between Farms (Note Number: AG1171, published in January 2005 and updated in July 2009); and
- The Victorian Serrated Tussock Working Party (**VSTWP**) Best Practice Serrated Tussock Weed Hygiene Guide (available at <http://agriculture.vic.gov.au/>).

## 4. BIOSECURITY RISKS IDENTIFIED ONSITE

The Project site constitutes of private and public land with multiple roadways to be considered in this Plan. There are potential high-risk pathways for the spread of Invasive Plants and pathogens from contaminated vehicles, machinery and materials.



## 5. BIOSECURITY CONTROL MEASURES

Throughout the operational phase and any new construction, biosecurity risks including pest species of flora and fauna and foreign diseases can be spread by human activity such as earthworks, heavy machinery use, and vehicle and personnel movements. Entry and exit procedures must ensure this risk is minimised.

Training and induction will enable all entrants to the site to be responsible for ensuring that appropriate biosecurity risk management measures are taken and may include training for noxious weed exotic pest identification and protocols for reporting and containment.

Site management will be adaptive and respond appropriately to changes in conditions, particularly for any new occurrences of high threat weeds. Adherence to this plan will ensure systematic control of all weeds listed under the *Catchment and Land Protection Act 1994* (**CaLP Act**), and ongoing monitoring for any new or emerging weeds to ensure early intervention.

### 5.1 EARLY INTERVENTION

The landholder and Department of Energy, Environment and Climate Action (**DEECA**) must be consulted on eradication or containment possibilities and the requirements going forward to ensure a rapid and effective response.

### 5.2 CLEANING OF PLANT, EQUIPMENT, AND PERSONNEL

All vehicles/machinery/plant prior to commencing any work on the site must be inspected and declared clean / weed free by a person authorised by the Project or by the relevant contractor to conduct weed hygiene inspections. All off-road earthworks exiting the site should also be inspected and cleaned and washed if necessary, before exit (see **Table 5-1**).


If wash down or decontamination of plant and equipment contaminated with noxious weed propagules occurs on site it will be in accordance with VSTWF's Best Practice Serrated Tussock Weed Hygiene Guide, which will not only minimise the risk of invasive flora and fauna but will also mitigate the risk of introducing livestock and plant diseases. Cleaning and decontamination procedures will include:

- Physical removal soil and debris from tools, equipment and machinery;
- Air blast for decontamination in hard to reach areas;
- Vacuuming to remove contaminants from the interior surfaces of machinery; and
- Wash-down with water at a high pressure using a pressure cleaner or spray tank and pump or for difficult stains or soil a steam cleaning facility, paying attention to the tyres, tracks and undercarriage of vehicles and machinery (see **Figure 5-1**).

Access tracks will be maintained weed free to avoid contamination of vehicles and machinery. All vehicular traffic shall be restricted to designated access tracks and site entry and exit points.

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**ERM**

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PROJECT NO: 0691524 DATE: 17 November 2023

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VERSION: A

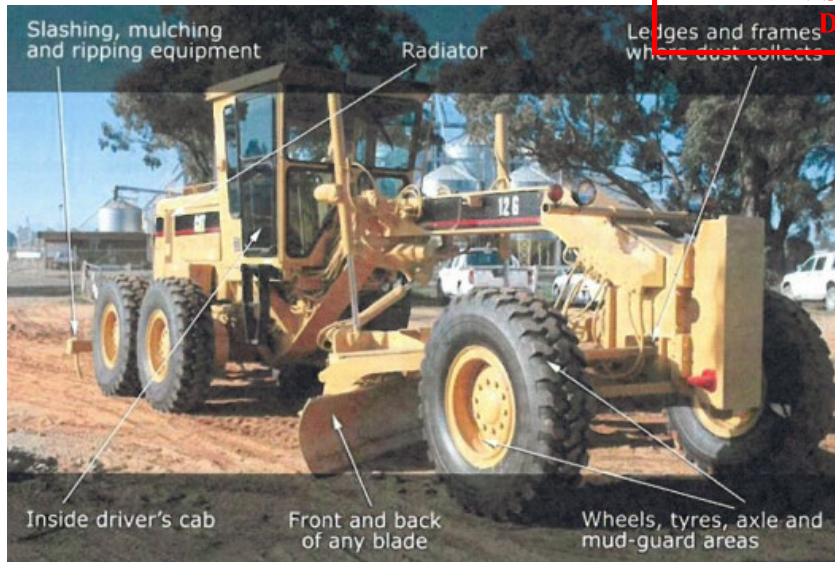
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**TABLE 5-1 TYPICAL EQUIPMENT AND CRITICAL AREAS THAT HARBOUR WEED SEEDS, PESTS OR PATHOGENS (CIVIL CONTRACTORS FEDERATION, 2010)**

<b>Plant and Equipment (not exhaustive)</b>	<b>Critical Areas for Cleaning and Decontamination (not exhaustive)</b>
Cars and utilities	Tyes/axels and differentials
Tractors and implements	Radiators
All-terrain Vehicles (ATV) and two and fur wheel motorbikes	Grills/filters
Earthmoving machinery	Buckets and blades
Backhoes	Within slashing mulching and ripping equipment
Graders	Chassis and body
Trucks	Between dual wheels
Fuel and generator trailers	Ledges and frames
Harvesting and mowing equipment	Inside driver’s cab

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**FIGURE 5-1 EXAMPLE OF CRITICAL CONTAMINATION AREAS REQUIRING THROUGH CLEANING (CIVIL CONTRACTORS FEDERATION, 2010)**

**5.3 TRANSPORT OF MATERIALS**

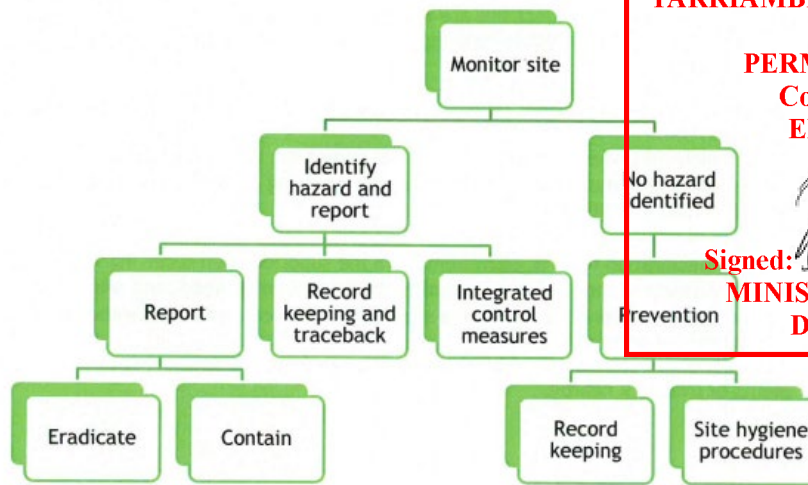
All materials moved onto the Project site are a potential source of pests that may cause a biosecurity risk. Procedures to reduce biosecurity risk when transporting materials include:

- Inspect materials when they arrive and store away from other plant products;
- Record keeping of material transported to site in accordance with **Section 6.2.1**;
- Request declaration form or equivalent from the supplier when receiving soil or other materials to confirm that they are free of weeds and other pests;
- Do not remove material or soil from a site that may be contaminated without prior treatment and permits; and
- Regularly check storage areas for the appearance of pests or unusual symptoms on plants or livestock nearby.

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## 6. MONITORING AND REPORTING

### 6.1 PROTOCOL FOR IDENTIFICATION AND MANAGEMENT OF A BIOSECURITY RISK



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FIGURE 6-1 SUGGESTED PROTOCOL FOR BIOSECURITY

Regular monitoring and reporting of the location and spread of controlled species will occur to allow early intervention. All staff on site will be inducted to ensure that they are familiar with the usual diseases, pests and weeds found on the property.

### 6.2 REPORTING

Any suspected pest shall be reported as follows:

- Notify the relevant state authority;
- For plants, mark the area with pegs and take a GPS location recording;
- If animals exhibit symptoms, isolate affected livestock immediately;
- Do not allow movement of people and equipment near the affected area and animals; and
- Do not touch or move or transport affected plant material or livestock without advice from DEECA.

#### 6.2.1 TRACEABILITY

To enable 'trace back' and 'trace forward' if there is a pest identified site record keeping shall include:

- Record of every visitor to the site;
- Record of all materials that comes into site, including the source, date, treatments, certification and where it will be stored;
- Record of vehicle/machinery logs including hygiene practices:
  - Record of cleaning and decontamination;
  - Risk assessment and identification of potential pests; and
  - Record of reporting suspected biosecurity risks.

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### 6.2.2 CONTACT DETAILS

- Any unusual plant pest or disease shall be reported immediately through the **Exotic Plant Pest Hotline** on 1800 084 881.
- Any usual signs or suspected cases of emergency animal disease shall be reported to the **Emergency Animal Disease Watch Hotline** on 1800 675 888.

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## 7. REFERENCES

Victorian Serrated Tussock Working Party, 2020, Victoria's Best Practice Serrated Tussock Weed Hygiene Guide

Civil Contractors Federation, 2010, Environmental Guidelines for Civil Construction

Civil Contractors Federation, 2010, The Guide for Machinery Hygiene for Civil Construction - Machinery Hygiene Code of Practice





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