



MOOLARBEN COAL COMPLEX ANNUAL REVIEW 2025

Document	Version	Issue	Author	Approved
MCO_RPT_ANNUAL REVIEW 2025	1	March 2026	MCO	IF

Name of operation	Moolarben Coal Complex
Name of operator	Moolarben Coal Operations Pty Ltd
Development consent / project approval #	PA05_0117 and PA08_0135
Name of holder of development consent / project approval	Moolarben Coal Mines Pty Limited
Mining lease #	ML 1605, 1606, 1628, 1691, 1715
Name of holder of mining leases	Moolarben Coal Mines Pty Ltd, Yancoal Moolarben Pty Ltd and Kores Australia Moolarben Resources Pty Ltd
Water licence #	WAL19424, WAL36340, WAL37583, WAL37582, WAL19052, WAL41888, WAL39799, 20BL173935
Name of holder of water licence	Moolarben Coal Mines Pty Limited
Forward Work Program start date	01 January 2025
Forward Work Program end date	31 December 2027
Annual Review start date	01 January 2025
Annual Review end date	31 December 2025
I, Tim Slater, certify that this audit report is a true and accurate record of the compliance status of Moolarben Coal Complex for the period January 1 2025 to December 31 2025 and that I am authorised to make this statement on behalf of Moolarben Coal Operations. <i>Note.</i> a) <i>The Annual Review is an ‘environmental audit’ for the purposes of section 9.39 of the Environmental Planning and Assessment Act 1979. Section 9.42 provides that a person must not include false or misleading information (or provide information for inclusion in) an audit report produced to the Minister in connection with an environmental audit if the person knows that the information is false or misleading in a material respect. The maximum penalty is, in the case of a corporation, \$1 million and for an individual, \$250,000.</i> b) <i>The Crimes Act 1900 contains other offences relating to false and misleading information: section 192G (Intention to defraud by false or misleading statement—maximum penalty 5 years imprisonment); sections 307A, 307B and 307C (False or misleading applications/information/documents—maximum penalty 2 years imprisonment or \$22,000, or both).</i>	
Name of authorised reporting officer	Tim Slater
Title of authorised reporting officer	General Manager
Signature of authorised reporting officer	
Date	31 March 2026

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1.0 STATEMENT OF COMPLIANCE

A summary of compliance with Moolarben Coal Operations Pty Ltd relevant project approvals, mining leases and licence conditions from 1 January 2025 to 31 December 2025 (the Reporting Period) is provided in **Table 1** and **Table 2**. A compliance table key is provided in **Table 3**.

Table 1 Statement of Compliance

Were all conditions of the relevant approval(s) complied with?	
PA 05_0117	No
PA 08_0135	No
EPL 12932	No
EPBC 2007/3297	Yes
EPBC 2008/4444	Yes
EPBC 2013/6926	Yes
EPBC 2017/7974	Yes
ML 1605	Yes
ML 1606	Yes
ML 1628	Yes
ML 1691	Yes
ML 1715	Yes
EL7073	Yes
EL 7074	Yes
EL 6288	Yes
WAL19424	Yes
WAL36340	Yes
WAL37583	Yes
WAL37582	Yes
WAL19052	Yes
WAL41888	Yes
WAL39799	Yes
20BL173935	Yes

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Table 2 Non-Compliance Summary

Relevant approval	Condition	Condition description (summary)	Compliance status	Comment	Where addressed in AR
EPL12932	M2.1	Monitor concentration of pollutants discharged	Non-compliance	HVAS PO1(EPL16) missed sample	Section 12
PA 05_0117 PA 08_0135	Sch. 3 Con. 31 Sch. 3 Con. 27	Water Release as per s120 of the POEO Act	Non-compliance	Release of sediment laden water through installed sediment controls and flowed into the downstream 'Eastern Creek'	Section 12
PA_05_0117 PA 08_0135	Sch. 3 C.33 Sch. 3 C.29	Water Management Plan	Non-compliance	Water quality monitoring result above the discharge design limit for dissolved zinc.	Section 12

Table 3 Compliance Status Key for Table 2

Risk	Colour Code	Description
High	Non-Compliant	Non-compliance with potential for significant environmental consequences, regardless of the likelihood of occurrence
Medium	Non-Compliant	Non-compliance with: - potential for serious environmental consequences, but is unlikely to occur, or - potential for moderate environmental consequences, but is likely to occur
Low	Non-Compliant	Non-compliance with: - potential for moderate environmental consequences, but is unlikely to occur, or - potential for low environmental consequences, but is likely to occur
Administrative	Non-Compliant	Only to be applied where the non-compliance does not result in any risk of environmental harm (e.g. submitting a report to government later than required under approval conditions)

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2.0 INTRODUCTION

The Moolarben Coal Complex (MCC) is located approximately 40 kilometres north of Mudgee in the Western Coalfield of New South Wales (**Figure 2-1**) within the Mid-Western Regional Local Government Area. Local relevant land ownership within the immediate vicinity of the MCC is provided in **Appendix 1**.

Moolarben Coal Operations Pty Ltd (MCO) is the operator of the MCC on behalf of the Moolarben Joint Venture (Moolarben Coal Mines Pty Ltd [MCM], Yancoal Moolarben Pty Ltd (YM) and a consortium of Korean power companies). MCO, MCM and YM are wholly owned subsidiaries of Yancoal Australia Limited (Yancoal).

Current mining operations undertaken across the MCC have approval until 31 December 2038. All mining operations are conducted in accordance with NSW Project Approval (05_0117) (Moolarben Coal Project Stage 1) as modified, and NSW Project Approval (08_0135) (Moolarben Coal Project Stage 2) as modified, granted under the *Environmental Planning and Assessment Act 1979* (EP&A Act).

The current mining operations are undertaken in accordance with Approval Decisions (EPBC 2007/3297), (EPBC 2013/6926), (EPBC 2008/4444) and (EPBC 2017/7974) under the Commonwealth *Environment Protection and Biodiversity Conservation Act 1999* (EPBC Act).

Mining operations and exploration activities at the MCC are also conducted in accordance with the requirements of the conditions of EPL12932 granted under the *Protection of the Environment Operations Act 1997* (POEO Act), Mining Lease (ML) ML1605, ML1606, ML1628, ML1691, and ML1715 and Exploration Licences (EL) EL6288, EL7073 and EL7074 granted under the *Mining Act 1992* (Mining Act).

2.1 SCOPE

This 2025 Annual Review (AR) has been prepared by MCO (with input from experienced and qualified experts) to satisfy the reporting requirements of NSW Project Approval (05_0117) (as modified), NSW Project Approval (08_0135) (as modified), and other relevant approvals. The AR presents a summary of the regulatory compliance, environmental performance, and community engagement activities for MCO for the Reporting Period. The following key agencies and committees shall be provided with a copy of this report:

- NSW Department of Planning, Housing, and Infrastructure (DPHI) (For Approval);
- NSW Department of Climate Change, Energy, the Environment and Water (DCCEEW);
- NSW Environment Protection Authority (EPA);
- Mid-Western Regional Council (MWRC); and
- Members of the MCC Community Consultative Committee (CCC).

In addition, an electronic copy will be made publicly available on the Moolarben Coal website <https://www.yancoal.com.au/our-sites/moolarben/> in accordance with Schedule 5, Condition 11 (a) of PA05_0117 and Schedule 6, Condition 11 (a) of PA08_0135.

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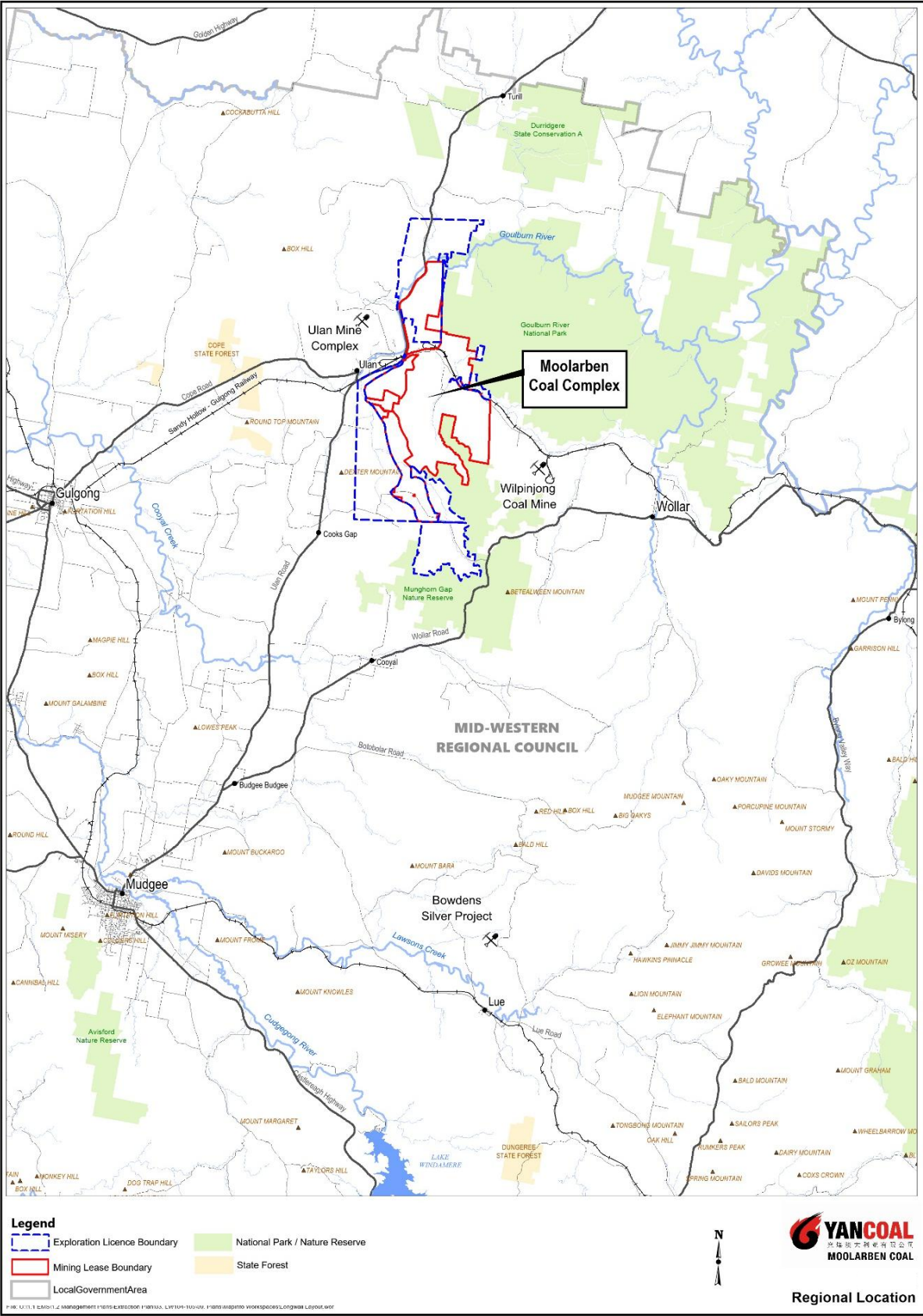
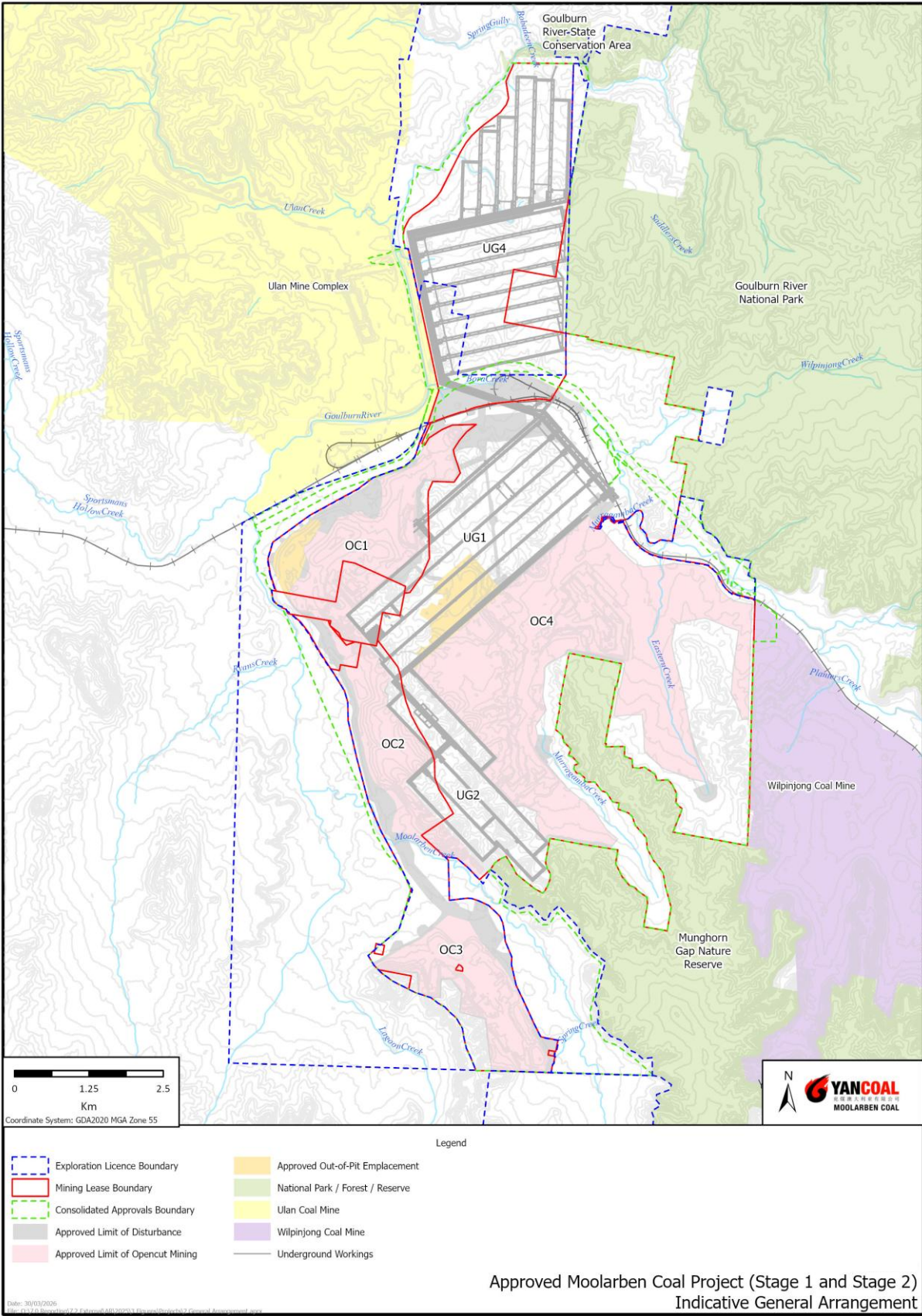


Figure 2-1 Project Location

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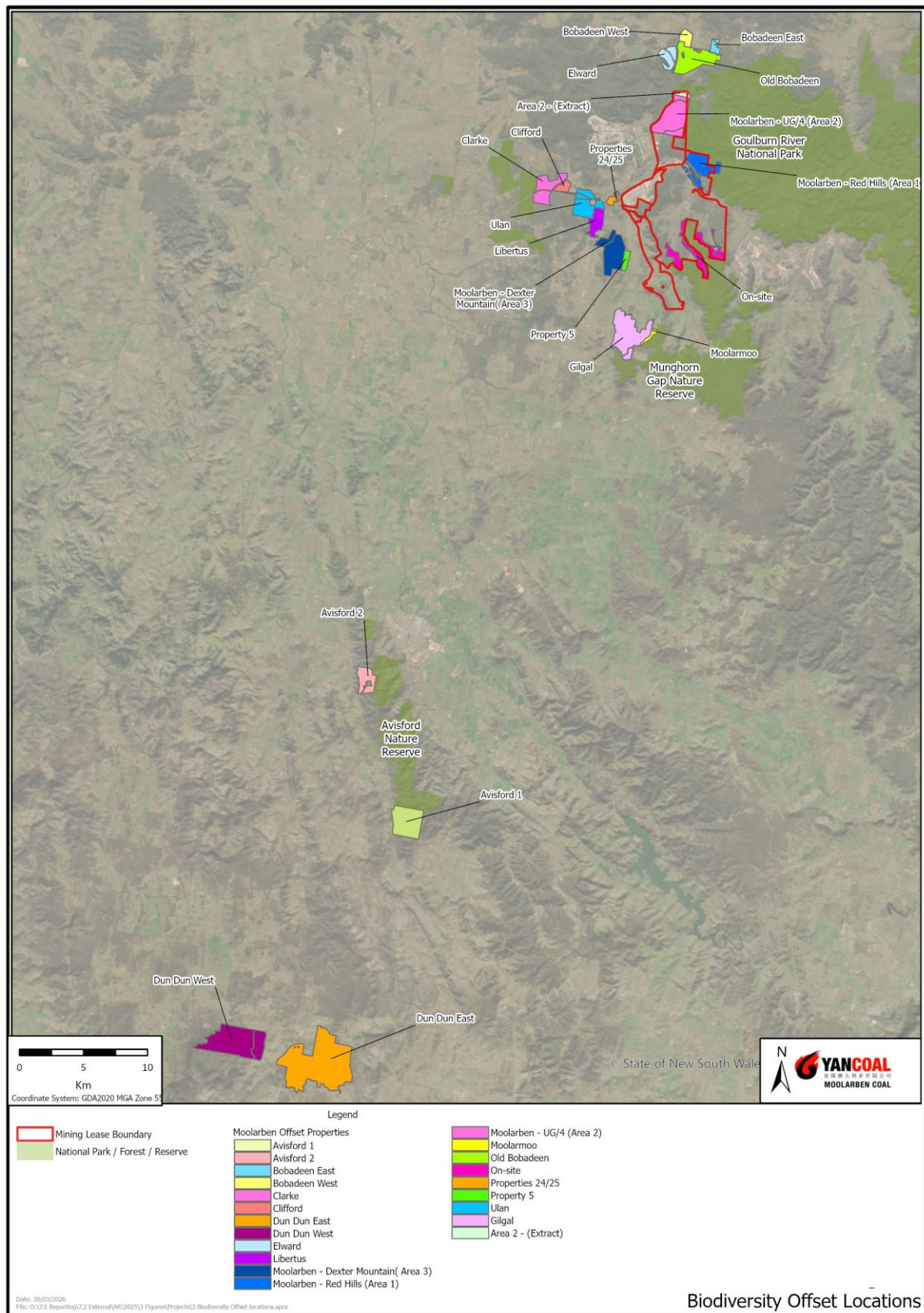


Figure 2-3 Biodiversity Offset Locations

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2.2 PROJECT DESCRIPTION

The MCC comprises the Moolarben Stage 1 and Stage 2 Projects. An overview of the complex is provided in **Figure 2-2**. The Stage 1 and Stage 2 operations are summarised in **Table 4** below.

Stage 1 at the MCC commenced coal mining operations in 2010 and is at full development comprising of three open cut mines (OC1, OC2, and OC3), a longwall underground mine (UG4), and mining related infrastructure (including coal processing and transport facilities).

Stage 2 at the MCC commenced coal mining operations in 2015 and is at full development comprising one open cut mine (OC4), two longwall underground mines (UG1 and UG2), and mining related infrastructure.

Table 4 MCC Approved Operations Overview

Relevant Approval Component	Moolarben Coal Project	
	Stage 1 Project Approval (05_0117)	Stage 2 Project Approval (08_0135)
Operational Mine Life	Mining operations can be carried out until 31 December 2038.	
Hours of Operation	Mining operations can be carried out 24 hours a day, 7 days a week.	
Coal Extraction Limits	Up to 10 Mtpa of ROM coal can be extracted from the open cut mining operations in any calendar year from Stage 1.	Up to 16 Mtpa of ROM coal can be extracted from the open cut mining operations in any calendar year from Stage 2.
	Up to 8 Mtpa (total) of ROM coal can be extracted from the underground mining operations at the Moolarben Coal Complex in any calendar year.	
Coal Processing and Offsite Transport	Up to 16 Mtpa (total) of ROM coal from the Moolarben Coal Complex can be washed in the calendar year. Not more than 8 laden trains on average or 11 laden trains maximum to leave the complex per day.	
	All coal is to be transported from the Moolarben Coal Complex by rail.	All coal extracted from the site is sent to the Moolarben Stage 1 mine surface infrastructure area for processing and/or transport to market.

Notes: The total ROM coal extracted from the Moolarben mine complex (open-cut and underground mining) is no more than 24 million tonnes in any calendar year. • No more than 16 million tonnes of coal from the Moolarben mine complex can be processed (washed) in any calendar year. • No more than 22 million tonnes can be transported from the Moolarben mine complex in any calendar year.

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2.3 KEY MINE CONTACT PERSONNEL

Table 5 provides contact details for key personnel responsible for environmental management across the Moolarben Coal Complex.

Table 5: Mine Contact Personnel

Position/Area of Responsibility	Name	Contact Number(s)	Email Address
General Manager (Acting)	Timothy Slater	02 6376 1500	timothy.slater@yancoal.com.au
Environment and Community Manager	Ian Flood	02 6376 1500	ian.flood@yancoal.com.au
Environment and Community Superintendent	Rebecca Shanks	02 6376 1500	rebecca.shanks@yancoal.com.au
Environment and Community Superintendent	Damien Ryba	02 6376 1500	damien.ryba@yancoal.com.au
Environment and Community Complaints Line	1800 556 484		
Postal Address	Locked Bag 2003, Mudgee, NSW, 2850		

2.4 STRUCTURE OF THIS ANNUAL REVIEW

The remainder of the AR is structured as follows and is based on the *Annual Review Guidelines – Post-approval requirements for State significant mining developments* (NSW Department of Planning and Environment, 2015):

- Section 3:** Outlines the relevant statutory approvals.
- Section 4:** Outlines the activities undertaken at Moolarben Coal Complex for the period and those proposed for the next period.
- Section 5:** Actions required from previous Annual Review.
- Section 6:** Outlines environmental performance including meteorological, noise, blasting, air quality, biodiversity, heritage, bushfire and waste.
- Section 7:** Outlines the water management performance.
- Section 8:** Outlines subsidence performance.
- Section 9:** Outlines the rehabilitation management performance.
- Section 10:** Outlines the community performance.
- Section 11:** Describes independent audit requirements.
- Section 12:** Provides a summary of incidents and non-compliances.
- Section 13:** Activities to be completed in the next Reporting Period.
- Appendices:** Supporting information and monitoring data.

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3.0 APPROVALS

3.1 SUMMARY OF APPROVALS

Project Approvals, Mining Leases, and other Licences relevant to MCO are provided in **Table 6**. Current Project Approvals, EPBC Approvals, Exploration Licences, and Mining Leases are available at <https://www.yancoal.com.au/our-sites/moolarben/>

Table 6: Relevant Approvals, Leases and Licences

Approval	Description	Expiry Date
Project Approval – NSW Department of Planning and Environment		
05_0117	Stage 1 as modified	31 December 2038
08_0135	Stage 2 as modified	31 December 2038
Mining Lease – NSW Department of Regional NSW – Resources Regulator		
ML1605	Underground 4, CHPP and infrastructure areas	20 December 2028
ML1606	OC1, OC2, UG1 and associated infrastructure	20 December 2028
ML1628	OC1, OC2, OC3, UG1 and UG4	24 February 2030
ML1691	OC2, OC3, UG1, UG2 and associated infrastructure	23 September 2034
ML1715	OC2, OC4, UG1, UG2 and associated infrastructure	31 August 2036
Moolarben Coal Forward Program – NSW Department of Regional NSW – Resources Regulator		
FWP0001365	Stage 1 and Stage 2 operations	31 December 2027
Exploration Licences – NSW Department of Regional NSW – Resources Regulator		
EL6288	Coal Exploration Licence	23 August 2029
EL7073	Coal Exploration Licence	12 February 2026*
EL7074	Coal Exploration Licence	12 February 2026^
Environment Protection Licence – NSW Environment Protection Authority		
EPL12932	Licence authorising the carrying out of scheduled activities	N/A
Environment Protection and Biodiversity Conservation Act – Commonwealth Department of Climate Change, Energy, the Environment and Water		
2007/3297	Stage 1 coal mines and associated infrastructure	31 December 2027
2008/4444	Stage 2 coal mines	31 December 2065
2013/6926	Modify and extend the Stage 1 Moolarben Coal Project.	31 December 2064
2017/7974	Modify and extend the Stage 1 and Stage 2 Moolarben Coal Project	31 December 2050
Water Licences – NSW Department of Planning and Environment – Water		
WAL19424	Wollar Creek Water Source	N/A
WAL36340	Wollar Creek Water Source	N/A
WAL37583	Wollar Creek Water Source	N/A
WAL37582	Upper Goulburn River Water Source	N/A
WAL19052	Upper Goulburn River Water Source	N/A
WAL41888	Upper Goulburn River Water Source	N/A
WAL39799	Sydney Basin - North Coast Groundwater Sources	N/A
20BL173935	Monitoring Bore Licence	N/A

Notes: * EL7073 Renewal Application submitted 3 February 2026 ^ EL7074 Renewal Application submitted 9 February 2026

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3.2 CHANGES TO APPROVALS

During the Reporting Period there were no modifications to either Project Approvals PA05_0117 and PA08_0135. The OC3 Extension Project is currently with DPHI for assessment.

MCO sought to vary EPL12932 (Notice Number #1653135) in September 2025 to include a new effluent discharge and monitoring point EFF05 (i.e. EPL ID#53) associated with new site sewage management system constructed for OC4 pre-start facility. The EPA approved EPL ID#53 to EPL12932 on the 22 December 2025.

MCO also sought to remove EPL ID#15 from EPL12932 under Notice Number #1653135, however the EPA have informed MCO that EPL ID#15 will remain at the current location and once a suitable location has been identified, the EPA will assist MCO to vary the EPL to reflect the revised location of this monitoring point.

3.3 ANNUAL REPORTING

Table 7 provides a checklist of AR reporting requirements from PA05_0117 and PA08_135 and where they are addressed within this AR.

Table 7: Annual Review Reporting Requirements

Approval Type & Reference		Annual Review Section
Project Approval 05_0117 Condition 4 Schedule 5	<i>By the end of March each year, or other timing as may be agreed by the Secretary, the Proponent shall review the environmental performance of the project to the satisfaction of the Secretary. This review must:</i>	
	<i>a. describe the development that was carried out in the previous calendar year, and the development that is proposed to be carried out over the next year;</i>	4.2 & 4.3
	<i>b. include a comprehensive review of the monitoring results and complaints records of the project over the previous calendar year, which includes a comparison of these results against the</i>	6 to 10
	<i>the relevant statutory requirements, limits or performance measures/criteria;</i> <i>the monitoring results of previous years; and</i> <i>the relevant predictions in the EA;</i>	
	<i>c. identify any non-compliance over the last year, and describe what actions were (or are being) taken to ensure compliance;</i>	1, 6 to 10 & 12
	<i>d. identify any trends in the monitoring data over the life of the project;</i>	6 to 10
Project Approval 08_0135 Condition 4 Schedule 6	<i>e. identify any discrepancies between the predicted and actual impacts of the project, and analyse the potential cause of any significant discrepancies; and</i>	6 to 10
	<i>f. describe what measures will be implemented over the next year to improve the environmental performance of the project.</i>	6 to 10 & 13
	<i>By the end of March each year, or other timing as may be agreed by the Secretary, the Proponent must review the environmental performance of the project to the satisfaction of the Secretary. This review must:</i>	
	<i>a. describe the development that was carried out in the previous calendar year, and the development that is proposed to be carried out over the next year;</i>	4.2 & 4.3
	<i>b. include a comprehensive review of the monitoring results and complaints records of the project over the previous calendar year, which includes a comparison of these results against the</i>	6 to 10
	<i>the relevant statutory requirements, limits or performance measures/criteria;</i>	

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	- the monitoring results of previous years; and - the relevant predictions in the EA; c. identify any non-compliance over the last year, and describe what actions were (or are being) taken to ensure compliance; d. identify any trends in the monitoring data over the life of the project; e. identify any discrepancies between the predicted and actual impacts of the project, and analyse the potential cause of any significant discrepancies; and f. describe what measures will be implemented over the next year to improve the environmental performance of the project.	1, 6 to 10 & 12 6 to 10 6 to 10 6 to 10 & 13

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4.0 OPERATIONS SUMMARY

4.1 MINING OPERATIONS

Details of total coal production and associated coarse coal waste (rejects) generated by MCO for the Reporting Period and next Reporting Period are provided in **Table 8**.

Table 8 : Production Summary

Material	Approved Limit (PA 05_0117 & 08_0135)	Reporting Period		
		Previous Period 2024 (actual)	Current Period 2025 (actual)	Next Period 2026 (forecast)
Waste Rock/ Overburden (BCM)	N/A	71,440,399	74,459,169	69,332,428
Open Cut ROM Coal (t) (OC1, 2 & 3)	10,000,000	3,416,861	2,937,303	3,134,591
Open Cut ROM Coal (t) (OC4)	16,000,000	12,581,026	13,062,517	12,865,409
Open Cut ROM Coal (t)	16,000,000	15,997,886	15,999,820	16,000,000
Underground ROM Coal (t)	8,000,000	5,213,152	5,589,411	4,916,368
Coal Washing (t)	16,000,000	15,999,141	15,857,953	16,000,000
Rejects (Co Disposal)	N/A	2,739,680	2,513,747	2,721,001
Product Coal (t)	N/A	18,993,583	19,078,062	18,195,367

Notes: t = tonnes; ROM = Run of Mine; Bank Cubic Meters (BCM) represent 1m³ of material in its natural undisturbed state.

4.2 REPORTING PERIOD ACTIVITIES

This section provides further detail on MCO's operational activities undertaken in the Reporting Period. **Figure 4-1** presents the areas of mining activity in 2025 and proposed in 2026.

4.3 EXPLORATION

Exploration activities were undertaken in EL7073, ML1605, and ML1715 during the Reporting Period. This consisted of a total of 15 exploration holes within EL7073, 7 exploration holes within EL6288 and 50 exploration holes within ML1715.

4.3.1 LAND DISTURBANCE

During the Reporting Period, approximately 120.91ha of surface disturbance was completed, taking the total mine disturbance footprint to 2421.2ha, with the majority of the land disturbance associated with the progression of open cut mining within OC1, OC3 and OC4, as provided in the Forward Program (FWP) Plan 2A (Year 1), as shown in **Figure 4-1**.

All land disturbance is undertaken in accordance with MCO's Ground Disturbance Permit (GDP) process. This includes pre-clearance surveys, heritage clearance, erosion and sediment control plans, confirmation of land ownership and disturbance extents reviewed to ensure compliance with relevant management plans (Surface Water, Heritage, Biodiversity and Rehabilitation Management Plans) and approvals. Topsoil, mulch, habitat trees and ground timber were reclaimed and stockpiled for future use within rehabilitation areas as required by the Rehabilitation Management Plan (RMP).

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4.4 CONSTRUCTION

Construction works undertaken during the Reporting Period included the progression of mining infrastructure for Open Cut 3 (OC3) and Open Cut 4 (OC4). Mine infrastructure works included water management infrastructure and ancillary works. Construction activities commenced or undertaken in the period included:

- Construction of water management infrastructure.
- Completion of onsite wastewater management system upgrade at OC4 Prestart Area.

4.4.1 MINING OPERATIONS

Mining activities were undertaken in accordance with relevant project approvals and the Forward Program (FWP). During the Reporting Period general mining activities included:

- Topsoil stripping and recovery in OC1, OC3 and OC4
- Overburden removal from OC1, OC3 and OC4 using excavator and truck fleets
- Overburden removal from OC3 and OC4 using cast and dozer push
- Coal extraction from OC1, OC3 and OC4
- Drilling and blasting of select overburden and coal
- Spoil emplacement in-pit in OC1, OC2, OC3, and OC4
- Co disposal of rejects in-pit
- Bulk spoil reshaping and rehabilitation
- Construction and operation of water management works
- Continued underground development in UG4 and towards UG2
- Extraction of UG4 LW406 and UG4 LW407

4.4.2 COAL PROCESSING AND TRANSPORT

Open Cut ROM coal for washing was transported from the ROM stockpiles via conveyor to MCO's Coal Handling Preparation Plant (CHPP) for processing. ROM coal was transported from the UG ROM stockpile (bypass coal) to the product stockpile via conveyor. Washed product coal was transported by conveyor to the product coal stockpile prior to railing. Coarse rejects were co-mingled with dewatered fine rejects and transported by conveyor to the Rejects Bin and trucked back to the open cut for co-disposal with overburden in the backfilled voids.

All product coal was loaded onto trains via the Train Load-Out facility at MCO's rail loop and transported via rail to the Port of Newcastle. MCO monitors the amount of coal transported from site each year and the date/time of each movement. During the period, the maximum number of train movements per day was 10 with an average of 5.7 per day, compared to the approved rail limits of a maximum of 11 train movements per day and an average of 8 daily movements.

4.4.3 REHABILITATION

MCO completed rehabilitation of approximately 47.1ha of mined landforms in 2025, as provided in MCO's FWP Plan 2A (Year 1), within OC2, OC3 and OC4 (**Figure 4-1**). Rehabilitation activities included landform establishment, growth medium development, ecosystem establishment and rehabilitation maintenance (**Section 9.0**).

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4.5 NEXT REPORTING PERIOD

The proposed mining and rehabilitation schedule for 2026 is detailed in the FWP Plan 2A (Year 1) (**Figure 4-1**). MCO will continue to operate 24 hours per day, 7 days per week with blasting limited to the hours between 9 am and 5 pm, Monday to Saturday (no blasting on Sundays or Public Holidays without the prior approval of the EPA and the DPHI) and at a frequency of no more than 2 blasts per day (no more than 9 blasts a week averaged out over a calendar year) as detailed in PA 05_0117 Schedule 3, Condition 9 & 10 and PA 08_0135 Schedule 3, Condition 8 & 9 and Condition L6 of EPL 12932.

4.5.1 EXPLORATION

Proposed exploration activities during 2026 will focus on EL6288, EL7073, ML1605 and ML1715. All exploration carried out on MCO Exploration Licence areas will adhere to the relevant regulatory requirements which may include approval through the Resource Regulator's application to undertake Assessable Prospecting Operations.

4.5.2 LAND DISTURBANCE

During the next Reporting Period, approximately 185.8ha of land disturbance is scheduled for open-cut mining within OC3 and OC4, as displayed by the FWP Plan 2A (Year 1). There are no proposed land disturbances for UG4 associated with surface infrastructure and ancillary activities in 2026 (**Figure 4-1**).

4.5.3 CONSTRUCTION

Proposed construction activities during the next Reporting Period includes mine operational supporting infrastructure, such as:

- Construction of dewatering bores and associated infrastructure
- Construction of water management infrastructure
- Construction of the UG2 Remote Services Infrastructure Area and Back Block Vent Fan

4.5.4 MINING OPERATIONS

Mining operations for the next Reporting Period are shown in **Figure 4-1** and include:

- Topsoil stripping and recovery in OC1, OC3 and OC4
- Drilling and blasting of select overburden and coal
- Overburden removal from OC1, OC3 and OC4 using dozer, excavator and truck fleets
- Spoil emplacement in-pit in OC1, OC2, OC3 and OC4
- Coal extraction from OC1, OC3, and OC4
- Bulk spoil reshaping and rehabilitation
- Construction and operation of water management works
- Continued underground development within UG4 and towards UG2
- Continued longwall mining operations in UG4 LW408 into LW409

4.5.5 COAL PROCESSING AND TRANSPORT

MCO will undertake coal conveying, coal processing, coal loading, coal transportation and coal reject emplacement management for the next Reporting Period, as described in **Section 4.2.5**, in accordance with relevant Stage 1 and Stage 2 approvals (**Table 4**).

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4.5.6 REHABILITATION

During the next Reporting Period, MCO plan to rehabilitate approximately 60ha of mined landforms in OC2 and OC4 as displayed by the FWP Plan 2A (Year 1). Rehabilitation activities will include landform establishment, growth medium development, ecosystem establishment and rehabilitation maintenance (Section 9.0) (Figure 4-1).

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5.0 ACTIONS REQUIRED FROM PREVIOUS REPORTING PERIOD

The 2024 AR was submitted to the Department of Planning, Housing and Infrastructure (DPHI) in accordance with Schedule 5 Condition 4 of PA05_0117 and Schedule 6 Condition 4 of PA08_0135. On the 16 April 2025, the DPHI provided an approval letter confirming that the 2024 Annual Review generally satisfied Condition 4 of the respective approvals with no specific actions issued to MCO. The 2024 AR was placed on MCO's website within one month of the approval letter issued by the DPHI. MCO have provided an update to those ongoing actions identified from the 2023 Annual Review (**Table 9**).

Table 9 Ongoing Action Status from Previous Annual Review

Action Required from previous (2023) Annual Review	Requested by	Action Status
Revision of water level triggers for Tertiary paleochannel piezometers PZ213, PZ214 and PZ188.	MCO	Addressed, as part of the most recent GWMP update – pending approval.
Review, revise, and expand if required the Groundwater monitoring program as part of the next Groundwater Management Plan Review.	MCO	Addressed, as part of the most recent GWMP update – pending approval.
Consider decommissioning of PZ058A as part of the next Groundwater Management Plan Review.	MCO	Decommissioned and replaced with PZ258. Addressed, as part of the most recent GWMP update – pending approval.
Monitoring network above UG2 and UG4 to be expanded.	MCO	Action ongoing – UG4 network expanded in 2025, with UG2 network to be expanded during 2026.

5.1 BIODIVERSITY OFFSET REVIEW OUTCOMES AND ACTIONS

A review by NSW Department of Planning, Housing and Infrastructure's (NSW Planning's) Biodiversity Offset Review and Inspection Program undertaken in collaboration with the Australian Government Department of Climate Change, Energy, the Environment and Water (DCCEEW) of MCO's compliance with relevant biodiversity offset commitments in development consents was completed on the 19 and 20 May 2025.

During the document review and inspection, NSW Planning officers noted no non-compliances. However, during a desktop review of the BMP combined with observations from the site inspection and monitoring it was revealed that a review and consolidation of the BMP and BOMP are required.

In response, MCO will be reviewing both the Biodiversity Management Plan (BMP) and consolidating the Biodiversity Offset Management Plans (BOMPs) in Q2 2026.

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6.0 ENVIRONMENTAL PERFORMANCE

In accordance with the MCC Project Approvals, MCO has developed a series of Environmental Management Plans (EMPs) in consultation with the relevant government agencies. Current approved plans are available via the MCO website <https://www.yancoal.com.au/our-sites/moolarben/>. To measure compliance with the project approvals, various licences, and site management plans, MCO undertakes a comprehensive environmental monitoring program. The locations of environmental monitoring undertaken during the 2025 Reporting Period are identified in **Appendix 2**. This section provides summary details on:

- **Section 6.1** - Meteorological overview
- **Section 6.2** - Noise
- **Section 6.3** – Blasting
- **Section 6.4** – Air quality
- **Section 6.5** – Biodiversity
- **Section 6.6** – Heritage
- **Section 6.7** - Bushfire
- **Section 6.8** - Waste Management

Environmental performance for water, subsidence, rehabilitation and community aspects are reported in **Section 7.0** to **Section 10.0**.

6.1 METEOROLOGICAL SUMMARY

Meteorological monitoring is undertaken at Automatic Weather Station (WS) WS03 (Ulan Road) in accordance with NSW Project Approval and EPL requirements. Additional weather stations may be used to supplement weather data as required including WS04 located near OC2, and WS05 located near OC3. The localities of the stations are illustrated in **Appendix 2**. Meteorological parameters recorded by WS03 include:

- wind speed at 10 m;
- wind direction at 10 m;
- sigma theta;
- temperature at 2 m and 10 m;
- relative humidity at 2 m;
- solar radiation at 2 m; and
- rainfall.

WS03 rainfall and temperature records for 2025 are summarised in **Table 10**. A total of 591.2mm of rainfall was recorded in 2025, with January the wettest month (98.2mm) and April the driest (18.2mm). The total rainfall at MCO for 2025 was 62.8mm below the annual average rainfall of 654mm at the Gulgong Post Office and was below the MCO rainfall total of 894.8mm in 2024. Temperature recorded at WS03 ranged from -4.7°C in July to 39°C in December. The lowest minimum temperature of -4.7°C was below the lowest minimum of -3.8°C recorded in 2024. The highest maximum temperature of 39°C was above the highest maximum temperature of 37.8°C recorded in 2024.

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From January to May, northeasterly winds were predominant with south westerly and southerly winds predominant from June through to November. Meteorological data and monthly wind roses are presented in **Appendix 3A**.

Table 10 Meteorological Summary (WS03)

Month	Rainfall (mm)	Cumulative Rainfall (mm)	Long-term average regional Rainfall (mm)	Max Temp (°C) @ 2m	Min Temp (°C) @ 2m
Jan-25	98.2	98.2	70.3	38.8	8.7
Feb-25	59.2	157.4	62.2	36.6	6.0
Mar-25	58	215.4	57.0	36.9	13.2
Apr-25	18.2	233.6	44.2	28.3	3.6
May-25	80.2	313.8	44.6	23.9	2.3
Jun-25	41.4	355.2	50.2	20.3	-4.2
Jul-25	59.8	415	49.1	19.0	-4.7
Aug-25	30.6	445.6	45.4	22.7	-3.8
Sep-25	56.6	502.2	46.8	29.6	-1.3
Oct-25	33	535.2	55.6	34.4	1.2
Nov-25	18.6	553.8	60.8	36.7	0.7
Dec-25	37.4	591.2	66.9	39	4.2
Total	-	591.2	654	-	-

6.2 NOISE

MCO manages noise in accordance with the MCO Noise Management Plan (NMP) (Version 6). The NMP was most recently revised and approved in October 2023. The NMP was developed by MCO with advice from experienced and qualified experts (SLR Consulting Australia Pty Ltd) to satisfy Condition 7, Schedule 3 of PA 05_0117 (as modified) and Condition 8, Schedule 3 of PA 08-0135. During the Reporting Period, major noise producing activities included operations within: OC1, OC2, OC3, and OC4; surface operations associated with UG4; the CHPP and rail load-out facilities and construction activities. Operational processes at MCO to reduce noise emissions included:

- Use of sound attenuated major equipment.
- Operation of some support fleet during the daytime only.
- Use of shielded areas in adverse weather conditions.
- Use of real-time noise monitoring data and Mine Production Environmental Assistants to assist operational personnel in proactive and reactive management of noise impacts, including modification of mining activities as required.
- Use of predictive noise models to assess predicted noise risks associated with meteorological influences, including modification of mining activities as required.
- Sound power level testing of equipment.
- Routine maintenance of equipment, including sound attenuation components.

6.2.1 REAL- TIME NOISE MONITORING

The NMP identifies response triggers for real-time noise via four monitoring stations (refer **Appendix 2** for localities). When a trigger has been reached, an SMS alarm is sent to operational personnel and members of the Environment and Community Department. The real-time monitoring network operated throughout the Reporting Period.

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6.2.2 ATTENDED NOISE MONITORING

During the 2025 Reporting Period, attended environmental noise monitoring was conducted monthly (NA1, NA6 & NA12), with additional sites monitored quarterly (NA11), and Munghorn Gap Nature Reserve (MGNR) and Goulburn River National Park (GRNP) annually. The purpose of attended noise monitoring is to quantify and describe the acoustic environment around MCO’s operations and compare noise contribution from the MCC to the project Noise Criteria.

Noise Criteria are specified for day, evening, and night period for the amenity of neighbouring residences. Noise Criteria are expressed as LAeq(15min) and LA1(1min). **Table 11** provides a summary of project noise criteria and noise performance based on attended noise monitoring for 2025, together with management implications and proposed actions. MCO complied with the project specific noise criteria at all monitoring sites during attended noise monitoring in the Reporting Period. A summary of results from monthly attended noise monitoring undertaken during the period in accordance with the NMP is provided in **Appendix 3B**.

6.2.3 ATTENDED VALIDATION NOISE MONITORING

In accordance with the NMP, attended monitoring was undertaken during the Reporting Period at four locations (i.e. NA2, NA3, NA10 & NA12) to verify the results of real-time noise monitoring. Validation monitoring continues to confirm that the current real-time monitors overestimated the MCO LAeq during the validation periods. The real-time data appeared to be routinely influenced by extraneous low frequency noise sources such as road traffic, aircraft, frogs, insects, and wind. Due to the inability to distinguish between contributing noise sources, the real-time data is not suitable for compliance purposes and cannot be relied upon to provide an accurate estimate of mine generated noise. Real-time monitoring remains suitable for management purposes.

6.2.4 COMPARISON AGAINST PREVIOUS YEARS

Attended noise monitoring results were reviewed against previous years to 2012. This review found a high level of variability in results. Of the results where a noise reading was determined (i.e. not inaudible and criteria applicable) there is some correlation between monitoring results and the distance of the receiver from the operations.

Attended noise monitoring undertaken at NA1 Ulan school in 2025 during the daytime period shows the MCC complied with the noise criteria during monitoring events. Monitoring at NA6 Lower Ridge Road in 2025 during the night period shows the MCC complied with the noise criteria during monitoring events. Attended noise monitoring completed at NA12 Winchester Crescent in 2025 during the night period shows the MCC complied with the noise criteria during monitoring events.

Annual attended noise monitoring results at the Goulburn River National Park and the Munghorn Gap Nature Reserve show the MCC complied with the noise criteria at the monitoring locations during the Reporting Period.

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Table 11 Attended Noise Monitoring Summary

Aspect	Approved Criteria					Performance During the Reporting Period	Key Management implications	Implemented/ proposed management Actions
Attended Noise Monitoring	Land No.	Day ¹ L _{A1eq} (15min).	Evening ² L _{A1eq} (15min).	Night ³		Monthly attended monitoring was undertaken at the three required noise compliance locations (NA1, NA6 & NA12) throughout 2025 as required by the NMP. Quarterly monitoring was completed at NA11 during 2025 as required by the NMP. Annual monitoring was undertaken at the two required noise compliance locations (GRNP & MGNR) during 2025 as required by the NMP. There were no recorded noise exceedances during the 2025 Reporting Period at the five noise compliance monitoring locations NA1, NA6, NA12, GRNP & MGNR. MCO continued to coordinate noise management with neighbouring mines. Note approved noise compliance monitoring locations were selected as representative of residences and are shown in Appendix 2.	Noise management controls effective. One noise compliant received in 2025, this was less than the three noise complaints received in 2024 (Section 10.2).	Continue the implementation of the NMP. MCO will review, and if necessary, revise the NMP in accordance with Schedule 5 condition 5 and Schedule 6 condition 5 of PA05_0117 and PA08_0135 respectively.
	70	37	37	37	45			
	75	36	36	36	45			
	All other privately owned residences	35	35	35	45			
	Ulan Primary School	35 (internal) when in use			-			
	Ulan Anglican Church	35 (internal) when in use			-			
	Goulburn River National Park Munghorn Gap Nature Reserve	50 when in use			-			

1 Day is defined as the period between 7am-6pm Monday to Saturday, and 8am-6pm on Sundays and Public Holidays

2 Evening is defined as the period 6pm-10pm

3 Night is defined as the period from 10pm-7am Monday to Saturday, and 10pm-8am on Sundays and Public Holidays.

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6.2.5 COMPARISON TO PREDICTED LEVELS

Predicted noise levels from Year 2021 of the Open Cut Optimisation Modification (Stage 1 Modification 14 and Stage 2 MOD 3) were compared against actual noise levels during 2025. The 2025 results indicated that the actual noise levels from MCO were generally lower than the predicted levels where meteorological conditions were relevant.

Measured operational levels are compared to predicted levels in **Table 12**. In this table, a ‘positive’ difference is where the measured level is greater than the predicted level. A ‘negative’ difference is where the measured levels are less than the predicted levels. Where the meteorological conditions (primarily wind direction and temperature gradient) during the attended monitoring do not correspond with those that are modelled, no further analysis is undertaken. Attended noise monitoring results are included in **Appendix 3B**.

Table 12 EA Predictions – Attended Noise Monitoring, Various Weather Conditions

2025	dB(A) _{Leq (15min)} ¹			dB(A) _{LA1(1min)} ¹		
	NA1 Ulan School	NA6 Lower Ridge Rd	NA12 Winchester Cres	NA1 Ulan School	NA6 Lower Ridge Rd	NA12 Winchester Cres
	Day	Night	Night	Day	Night	Night
January	NC	NC	N/A	N/A	NC	N/A
February	N/A	N/A	N/A	N/A	N/A	N/A
March	NC	N/A	-8	N/A	N/A	-9
April	N/A	-10	-5	N/A	-12	-1
May	N/A	-6	-4	N/A	-7	-6
June	N/A	-11	-6	N/A	-14	-9
July	N/A	NC	N/A	N/A	NC	N/A
August	NC	NC	NC	N/A	NC	NC
September	N/A	N/A	NC	N/A	N/A	NC
October	N/A	N/A	N/A	N/A	N/A	N/A
November	N/A	N/A	NC	N/A	N/A	NC
December	N/A	N/A	NC	N/A	N/A	NC

¹ NA indicates meteorological conditions during the measurement did not correspond with any modelled meteorological conditions, and were not applicable for comparison. NC indicates measured MCO noise levels were inaudible (IA), not measurable (NM), or expressed as a “less than” quantity (e.g. less than 30 dB), therefore measured and predicted noise levels were not comparable.

6.3 BLASTING

MCO manages blasting in accordance with the Blast Management Plan (BMP) (Version 8). The BMP was developed by MCO with advice from experienced and qualified experts (SLR Consulting Australia Pty Ltd) to satisfy Condition 15, Schedule 3 of PA 05_0117 (as modified) and Condition 16, Schedule 3 of PA 08-0135 (as modified). The BMP was most recently revised and approved in December 2025 (Version 8).

Blasting criteria, blasting hours, blasting frequency, property inspection requirements and operating conditions are provided in Conditions 8 to 14, Schedule 3 and Conditions 7 to 15, Schedule 3 of the NSW Project Approvals (05_0117) and (08_0135) respectively.

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The blast monitoring locations are identified in **Appendix 2**. During the Reporting Period blast monitoring included airblast overpressure and ground vibration at locations representative of privately owned residences, schools and aboriginal rock shelters.

6.3.1 SUMMARY OF BLAST MONITORING RESULTS

Blast monitoring compliance for the Reporting Period is presented in **Table 13** and a summary of blast monitoring results for the period is provided in **Table 14**. Individual blast results are provided in full at **Appendix 3C**. No exceedance of the blasting criteria occurred during the Reporting Period.

One blast was undertaken within 500m of a public road, railway line and 330kV powerline on 22 April 2025. The recorded ground vibrations to the nearest power pole and culvert from OC4 were 2.42mm/s and 2.66mm/s respectively, both results were within their respective blasting criteria.

No blasting was undertaken within 230m of an Aboriginal rock shelter site during the 2025 calendar year.

Table 13 Blast Monitoring Summary (BM1, BM5, BM8)

Blast Summary	Number	Compliance (% of blasts non-compliant)
Total Blasts	213	Compliant
Days with >2 blasts (PA05 Sch 3 C 10)	0 ¹	Compliant
Annual average blasts per week	4.10	Compliant
Blasts outside blasting hours	0	Compliant
Airblast Overpressure >115 dB(Lin Peak) ²	4 ³	Compliant (1.9%)
Airblast Overpressure >120 dB(Lin Peak)	0	Compliant
Ground Vibration >5 mm/s ²	0	Compliant
Ground Vibration >10 mm/s	0	Compliant
Reportable Fume Events	0	Compliant

¹ Misfires excluded as per PA05_0117 Sch 3 Con. 10 and PA08_0135, Sch. 3, Con. 11.

² Allowable exceedances of 5% of total blasts over a period of 12 months.

³ Four blast events recorded in exceedance of 115dBL during the Reporting Period – at BM5 located on Moolarben Road.

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Table 14 Blast Monitoring Summary

Aspect	Approved Criteria				Performance During the Reporting Period	Trend/ Key Management Implications	Implemented/ proposed actions
Blast	Receiver	Air Blast Overpressure Level dB (Linear Peak) dBL ¹	Peak Particle Velocity – Ground Vibration mm/s ²	Allowable Exceedance	Compliance monitoring was undertaken at the following representative locations for the 2025 Reporting Period BM1 – Ulan School - Max. Overpressure = 112.3 dBL - Max Ground Vibration = 1.11 mm/s - Average Ground Vibration = 0.18 mm/s BM5 – Ridge Road - Max. Overpressure = 117.7 dBL - Max Ground Vibration = 0.75 mm/s - Average Ground Vibration = 0.14 mm/s BM8 – Moolarben Road - Max. Overpressure = 110.7 dBL - Max Ground Vibration = 0.7 mm/s - Average Ground Vibration = 0.12 mm/s A full blast summary is contained at Appendix 3C.	In accordance with condition 13 (c), Schedule 3 of project approval 05_0117 and condition 14 (d), schedule 3 of project approval 08_0135 MCO co-ordinates the timing of blasting onsite with the timing of blasting at Ulan and Wilpinjong mines to minimise cumulative impacts. One blast compliant received in 2025, no increases from the one blast complaint received in 2024 (Section 10.2). Air blast over pressure and peak particle velocity continue to mostly remain stable over the life of the operation at BM1 Ulan School and BM5 Ridge Road.	MCO will review and if necessary, revise the BMP in accordance with Schedule 5 condition 5 and Schedule 6 condition 5 of PA05_0117 and PA08_0135 respectively. During the Reporting Period MCO continued to maintain the blast monitoring network.
	Residence Privately Owned	120	10	0%			
		115	5	5% of the total number of blasts over a period of 12-months			
	All Public Infrastruct	-	50 ³	0%			
Notes ¹- dB (Linear Peak) dBL = decibel linear peak ² mm/s = millimetres per second ³ These criteria do not apply if the Proponent has a written agreement with the relevant owner and has advised the Department in writing of the terms of this agreement. MCO has written agreements with TransGrid and Australian Rail Track Corporation (ARTC) to undertake blasting within 500 metres (m) of the Wollar-Wellington 330 kV transmission line and within 500 m of ARTC infrastructure, respectively.							

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6.3.2 COMPARISON TO PREVIOUS BLAST MONITORING AND PREDICTED LEVELS

A comparison of the 2025 blast results to the 2024 results and predications in the Environmental Assessment for Stage 1 Modification 14 and Stage 2 Modification 3 (Year 2019), that most effectively represent current mining operations, are outlined in **Table 15** below. The blasting results for 2025 are within EA predictions for ground vibration and are generally within EA predictions for overpressure.

Table 15 Comparison to Blasting Results - BM1, BM5 & BM8 2024, 2025 and EA

Site	EA Vibration Predictions (mm/s) ²	2024 vibration range (mm/s)	2025 vibration range (mm/s)	Comment on results
BM1 Ulan School	2.1	0.03 – 2.69	0.03 – 1.11	Generally consistent with previous results and lower than prediction
BM5 ³ Ridge Rd	3.0	0.02 – 0.78	0.02 – 0.75	Generally consistent with previous results and lower than predictions.
Moolarben Rd	3.7	0.01 – 0.6	0.0 – 0.7	Generally consistent with previous results and lower than predictions.
Site	EA Overpressure Predictions (dBL) ²	2024 Overpressure range (dBL) ¹	2025 Overpressure range (dBL) ¹	Comment on results
BM1 Ulan School	112	78.3 – 120.3 ⁴	81.1 – 112.3	Generally consistent with previous results and predictions.
BM5 ³ Ridge Rd	114	79.7 – 113.9	78.1 – 117.7	Generally consistent with previous results and predictions.
BM8 Moolarben Rd	115	77.8 – 125.8 ⁴	74.6 – 110.7	Generally consistent with previous results and predictions.

Notes: ¹ Excludes environmental influenced results. ²Overburden blast design MIC 4,500 kg, 5% exceedance prediction. ³ Modelled predictions taken from nearest private receiver ID No.70 adjacent from BM5. ⁴ Overpressure exceedances reported on the 8 February and 29 May 2024 for BM1 and BM8 respectively.

Blast Monitoring 80%ile and 50%ile trends since 2012 are depicted below in **Figures 6-1 to 6-2**. The monitoring data indicates a correlation between monitoring results and distance of the receiver from the blast locations. Within the graphs the five percent and maximum limit has been included for the blast overpressure graph and the five percent limit has been included within the ground vibration graph. Results have generally been below these criteria.

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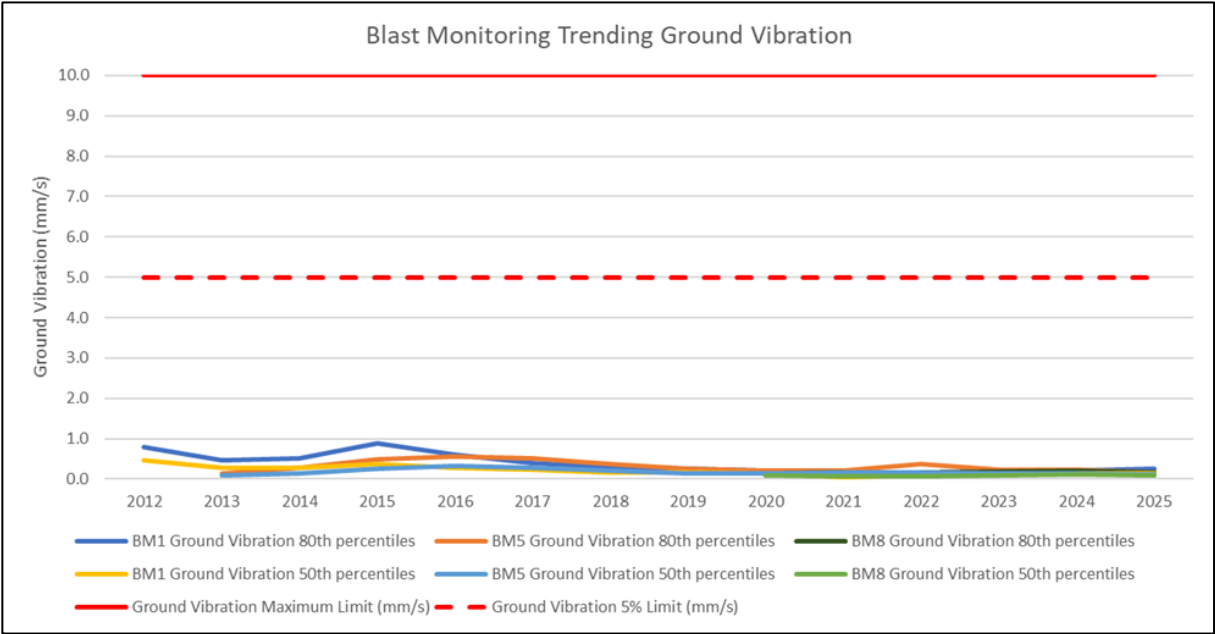


Figure 6-1: Blast Monitoring Trending Ground Vibration

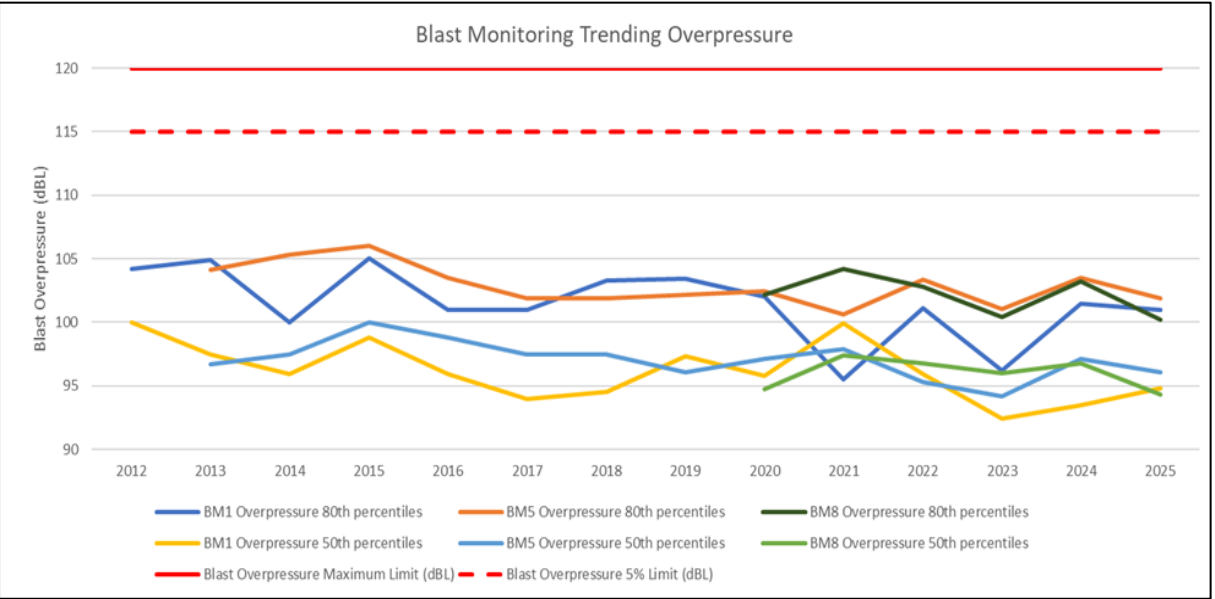


Figure 6-2: Blast Monitoring Trending Overpressure

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6.4 AIR QUALITY

MCO manages air quality in accordance with Air Quality Management Plan (AQMP). The AQMP was most recently revised and approved in November 2023. The AQMP was developed by MCO with advice from experienced and qualified experts (Todoroski Air Sciences) to satisfy Condition 20A, Schedule 3 of PA 05_0117 and Condition 22, Schedule 3 of PA 08_0135.

During the Reporting Period, MCO undertook air quality monitoring in accordance with the approved AQMP (Version 7). This included:

- Deposited particulate matter monitoring with Dust Depositional (DD) gauges at four locations around the Moolarben Coal Complex.
- PM₁₀ – High Volume Sampling (HVAS) monitoring at two sites – Ulan Village (PM01) and south-west of Open Cut 1 and west of Open Cut 2 (PM02).
- PM₁₀ – Real Time Monitoring via Tapered Element Oscillating Microbalance's (TEOMs) at three permanent locations around the Moolarben Coal Complex representative of private residences and one upwind of operations when winds trend towards private residences.
- PM_{2.5} - Real Time Monitoring via a dual function Tapered Element Oscillating Microbalance's (TEOMs) at one location around the Moolarben Coal Complex representative of private residences.
- Total Suspended Particulate (TSP) matter calculated from TEOM PM₁₀ monitoring results.
- Meteorological monitoring is undertaken via Automatic Weather Stations (AWSs), with WS03 (located on Ulan Road) the principal station for reporting purposes.

The AQMP monitoring locations are identified in **Appendix 2**. The air quality monitoring program is outlined in **Appendix 3D**. A summary of air quality monitoring results for the Reporting Period is provided in **Table 16** to **Table 21** and **Appendix 3D**.

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Table 16 Air Quality Monitoring Summary

Aspect	Monitoring Form	Approved Criteria	Performance during the Monitoring Period	Trend/ Key Management Implications	Implemented/proposed Management Action
Air Quality	Dust Deposition	4 g/m ² /month (max total) ¹	Annual averages for each dust depositional gauge are reported in Table 18 . All dust depositional results for the Reporting Period were below the 4g/m ² /month criterion. The 2g/m ² /month criterion was not triggered.	Annual average dust depositional results for the operation indicate a generally consistent trend over the period and remain well below the criteria.	MCO will review and if necessary, revise the AQMP in accordance with Schedule 5 condition 5 and Schedule 6 condition 5 of PA05_0117 and PA08_0135 respectively. During the Reporting Period MCO continued to maintain the air quality monitoring network. There were no complaints received in 2025 for dust, a decrease from the one dust complaint received in 2024 (Section 10.2).
		2 g/m ² /month above background average (Incremental increase) ²			
	PM ₁₀	50 mg/m ³ (24hr average) ^{2, 3}	All PM ₁₀ results were within criteria. Results due to extraordinary events are excluded from the dataset.	24-Hour average PM ₁₀ results for the operation indicate a steady trend over the period and remain well below the criteria.	
		25 mg/m ³ (Annual average) ^{1, 3}	The average PM ₁₀ results for the Reporting Period are presented in Table 19 . All sites were below the Annual average criteria.	Annual average PM ₁₀ results for the 2025 Reporting Period indicate a slightly increasing trend, however remain below the criteria.	
	PM _{2.5}	25 mg/m ³ (24hr average) ^{2, 3}	All PM _{2.5} results were within criteria. Results due to extraordinary events are excluded from the dataset.	24-Hour average PM _{2.5} results for the operation indicate a decreasing trend over the period remaining below the criteria.	
		8 mg/m ³ (Annual average) ^{1, 3}	The annual average PM _{2.5} results for the Reporting Period are presented in Table 20 . All results were within criteria.	Annual average PM _{2.5} results for the 2025 Reporting Period indicate a slightly decreasing trend when compared to 2024.	
	Total Suspended Particulate (TSP)	90 mg/m ³ (Annual average) ¹	TSP results are presented in Table 21 . TSP is calculated using the approved AQMP methodology based on PM ₁₀ constituting 40% of the total TSP. During the Reporting Period, all sites were calculated as being below the 90mg/m ³ criterion.	Annual average TSP results for the 2025 Reporting Period indicate a decrease in results when compared to 2024 with all sites increasing during the period.	

¹ Cumulative (i.e. incremental increase in concentrations due to the Moolarben mine complex plus background concentrations due to all other sources);

² Incremental impact (i.e. incremental increase in concentrations due to the Moolarben mine complex on its own) with up to 5 allowable exceedances over the life of the project

³ Excludes extraordinary events such as bushfires, prescribed burning, dust storms, fire incidents, illegal activities or any other activity agreed by the Secretary.

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6.4.1 DATA CAPTURE RATE

The following table (**Table 17**) provides details on the data capture rates for the Reporting Period. Data capture was impacted by maintenance, power loss and equipment failures.

Table 17 Data Capture Rate for PM₁₀ & PM_{2.5} Annual Averages

Location	2025 Data Capture Rate
TEOM 01 (Ulan School)	99.2%
TEOM 04 (Ulan Road)	97.5%
TEOM 06 (Ulan-Wollar Road)	98.9%
TEOM 08 (Ulan-Wollar Road)	97.8%
TEOM 07 (Ulan Road) ¹	96.2%
PM 01 (Ulan Village)	98%
PM 02 (Ridge Road)	100%

Notes:¹ TEOM monitors for both PM₁₀ and PM_{2.5}

6.4.2 COMPARISON TO PREVIOUS AIR QUALITY MONITORING AND BACKGROUND LEVELS

Dust Deposition

A comparison of the 2025 dust deposition results with previous years results from 2012 and predications in the Environmental Assessment for Stage 1 Modification 14 and Stage 2 Modification 3 (Year 2021), that most effectively represent current mining operations, is provided in **Table 18**. All deposition results for 2025 are within criteria and were generally consistent with predicted results (**Table 18**). Data trends are presented in **Appendix 3D**.

Table 18 Comparison of Depositional Dust Results

Dust Gauge	Annual Average (g/m ² /month) (Criteria = 4 g/m ² /month)															
	Back-ground	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	EA Prediction ¹
DG01 [#]	1.2	0.3	0.5	0.8	0.6	0.5	0.6	0.9	1.3	0.9	0.5	0.6	0.4	0.5	0.4	0.6
DG04 [^]	2.0	1.3	1.3	1.6	1.0	1.2	1.0	1.4	1.8	1.0	0.5	1.0	0.9	0.7	1.0	0.9
DG05 [^]	1.8	0.8	1.0	2.0	0.8	1.3	1.5	1.8	1.5	1.3	0.9	0.7	0.5	0.9	1.2	1.1
DG09 [^]	-	0.4	0.7	2.0	0.6	0.6	0.9	1.9	1.5	1.3	0.4	0.4	0.9	0.5	0.6	0.7

Notes: ¹ EA predictions for 2021 [#] Background monitoring [^]Representative of nearest non-mine owned residence

PM₁₀

A comparison of the 2025 PM₁₀ results with previous years results from 2012 and predications in the Environmental Assessment for Stage 1 Modification 14 and Stage 2 Modification 3 (Year 2021), that most effectively represent current mining operations, is provided in **Table 19**. Results for 2025 are all within criteria and generally consistent with or slightly below predicted results (**Table 19**) indicating that current air quality management practices are effective. Data trends are presented in **Appendix 3D**.

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Table 19 Comparison of Annual Average PM₁₀ Results

Unit	Background	Annual Average (µg/m ³) ⁴ (Criteria = 25 µg/m ³)														
		2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	EA Prediction ⁵
Ulan School (TEOM01)	15.1	10.2	12.4	11.4	13.2	13.0	12.3	15.1	17.3	15.1	12.3	11.3	16.8	16.2	16.3	17
Ulan Road (TEOM04)	⁻¹	8.9	10.8	12.7	9.0	11.6	15.1	18.7	20.0	14.1	11.4	10.6	14.6	13.8	13.1	14.5
Ulan-Wollar Road (TEOM06)	⁻¹	⁻²	⁻²	⁻²	9.0	11.5	12.5	15.7	19.7	16.6	12.0	11.1	20.2	18.8	21.0	*
Ulan-Wollar Road (TEOM08)	⁻¹	⁻²	⁻²	⁻²	⁻²	⁻²	⁻²	⁻²	⁻²	⁻²	⁻²	⁻²	⁻²	18.3	20.3	*
Ulan Road (TEOM07)	⁻¹	⁻²	⁻²	⁻²	⁻²	⁻²	11.2 ³	16.5	15.6	11.4	8.0	6.8	10.8	8.0	9.2	10.4
Ulan Village HVAS (PM01)	17.9	11.9	12.2	13.8	13.2	11.5	13.0	16.9 ⁶	18.9	11.8	7.9	7.1	12.5	12.3	11.5	16.7
Ridge Road HVAS (PM02)	⁻¹	9.7	10.0	11.7	10.8	9.9	13.5	18.1 ⁶	18.7	12.4	8.5	7.4	11.5	12.6	11.6	11.7

Notes: ¹ No background values as site established after 2009. ² No previous data as site not established. ³ Calculated on 5 months of data. ⁴ Annual Averages exclude extraordinary events such as bushfires and prescribed burns. ⁵ EA predictions based on the Open Cut Optimisation Modification 2021 Scenario. ⁶ 2018 values previous reported including extraordinary events. *No EA prediction was made for TEOM06 or TEOM08 as it is representative of conditions 'upwind' of MCO (i.e. not a private residence)

One extraordinary event was recorded on 27 May 2025. For further details refer to **Appendix 3D**.

PM_{2.5}

A comparison of the 2025 PM_{2.5} results with previous years results and predications in the Environmental Assessment for Stage 1 Modification 14 and Stage 2 Modification 3 (Year 2021) is provided in **Table 20**. Results are within criteria and generally slightly below predicted results, with 2025 results being consistent with or slightly above previous years (**Table 20**). Data trends are presented in **Appendix 3D**.

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Table 20 Comparison of Annual Average PM_{2.5} Results

Unit	Annual Average (µg/m ³) ⁴ (Criteria = 8 µg/m ³)															
	Background	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	EA Prediction ⁵
Ulan Road (TEOM07)	– ¹	– ²	– ²	– ²	– ²	– ²	– ²	– ²	5.8 ³	5.6	4.4	3.5	5.1	4.3	4.5	5.3

Notes: ¹ No background values as site established after 2009. ² No previous data as site not established. ³ Calculated on 6 months of data. ⁴ Annual Averages exclude extraordinary events such as bushfires and prescribed burns. ⁵ EA predictions based on the Open Cut Optimisation Modification 2021 Scenario.

Total Suspended Particulates

TSP results (**Table 21**) are all within criteria, with several units recording slightly higher results than 2024.

Table 21 Comparison of Annual Average TSP Results

Unit	Annual Average Calculated TSP (µg/m ³) (Criteria = 90 µg/m ³)															
	Background	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	EA Predictions ⁴
TEOM01 (Ulan School)	37.75	25.5	31	28.5	33	32.6	30.7	37.7	43.2	37.8	30.8	28.3	41.8	40.5	41.3	33.2
TEOM04 (Ulan Road)	0	22.3	27	31.8	22.5	29.0	37.9	46.8	50.1	35.3	28.5	26.5	36.6	34.5	33.0	29.0
TEOM06 (Ulan-Wollar Rd)	– ¹	– ²	– ²	– ²	22.5	28.8	31.4	39.3	49.3	41.5	30.0	27.8	49.3	47.0	53.5	*
TEOM08 (Ulan-Wollar Rd)	– ¹	– ²	– ²	– ²	– ²	– ²	– ²	– ²	– ²	– ²	– ²	– ²	– ²	45.8	52.0	*
TEOM07 (Ulan Road)	– ¹	– ²	– ²	– ²	– ²	– ²	27.9 ³	41.3	39.0	28.5	20.0	17.0	27.0	20.0	23.8	21.5
PM01 (Ulan Village HVAS)	44.75	29.8	30.5	34.5	33	28.8	32.4	49.0 ⁵	47.3	29.5	19.8	17.8	23.0	30.8	28.8	32.7
PM02 (Ridge Road HVAS)	– ¹	24.3	26.2	29.3	27	24.8	33.7	45.3 ⁵	46.7	31.0	21.3	18.5	21.3	31.5	29.0	23.9

Notes: ¹ No background values as site established after 2009. ² No previous data as site not established. ³ Calculated on 5 months of data. ⁴ EA predictions based on the Open Cut Optimisation Modification 2021 Scenario ⁵ 2018 values previous reported including extraordinary events *No EA prediction was made for TEOM06 as it is representative of conditions 'upwind' of MCO (i.e. not a private residence).

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6.4.3 SPONTANEOUS COMBUSTION

During the Reporting Period MCO continued to manage spontaneous combustion within Open Cut emplacement areas in accordance with the Air Quality Management Plan. Operational actions to manage instances of spontaneous combustion included:

- Watering to cool known heating
- Exposure, spreading, and excavation of the heating material
- Applying further water
- Cover with inert material, track roll and reshape
- Monitoring of area to identify any further areas of heating

An area of ground heating and periodic spontaneous combustion venting is present within the OC2 rehabilitation area. Part of this area has previously undergone remediation work yet is still displaying elevated temperatures in some areas of the rehabilitated landform. MCO is reporting this issue to the NSW Resources Regulator in the 2025 Annual Rehabilitation Report and is engaging a specialist consultant to undertake a field testing and analysis program, followed by the development of a bespoke remediation management plan for the area.

6.4.4 REVIEW OF PARTICULATE CONTROL EMISSIONS

MCC currently apply a number of air quality management measures designed to minimise the impact on the surrounding environment due to on-site activities. A review of particle control emissions at the MCC against industry best practice was completed by Todoroski Air Sciences on behalf of MCO in 2023. The review investigated the range of potential best practice dust controls applicable to the MCC and concluded, the air quality controls applied continue to be considered equivalent with industry best practice.

6.4.5 GREENHOUSE GAS

Yancoal reports MCO emissions as a Safeguard facility under the National Greenhouse and Energy Reporting (NGER) Scheme. MCC Scope 1 and Scope 2 emissions calculated for the 2024-25 financial year were 345,937t CO₂-e. MCC Scope 1 and Scope 2 emissions calculated for the 2023-24 financial year were 350,608 t CO₂-e. The approximate 4.6% decrease in emissions can be attributable to small reductions in stationary diesel, fugitive emissions and electricity usage; associated with decreasing ROM, Scope 1 and Scope 2 emissions attributable to the MCC are generally consistent with Environmental Assessment predictions.

The Stage 2 Preferred Project Report Environmental Assessment for the facility prepared in 2008 is the most relevant EA to review the forecast 2025 MCC Scope 1 and Scope 2 emissions profile. At the time of that assessment, it was estimated the MCC would emit 274,102 t CO₂e Scope 1 and Scope 2 emissions in 2025. However, the assessment did not include the increased open cut and underground production associated with Stage 1 Modification 14, and Stage 2 Modification 2. The global warming potential of methane has since been updated (from a factor of 21 to 28). The national greenhouse accounts factors are also reviewed and updated annually (where required) by the Commonwealth Department of Climate Change, Energy, the Environment and Water.

The NGER data reported by the MCC is subject to review by the (Commonwealth) Clean Energy Regulator under the NGER Act and includes third party assurance.

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MCO continues to investigate measures to improve energy efficiency and reduce the greenhouse gas emissions associated with the development including (since commencement of operations);

- Trucks have been repowered from Cummins to Penske showing an average of 19% fuel burn saving.
- Ongoing installation of engine and hydraulic management system - Liebherr Power Efficiency (LPE) in select excavators which has resulted in up to 12% in fuel savings.
- Upgrade product stockpile lighting to LED, which has resulted in more energy efficiency and reduced energy consumption.
- Upgrades to the CHPP which included:
 - Additional HV Power Factor Correction with target power factor 0.99 for efficient transfer of power,
 - The conversion of equipment from Direct-On-Line (DOL) to Variable Speed Drive (VSD) control resulting in improved energy efficiency,
 - Using a diesel alternative product with lower emissions generating potential in the coal handling and preparation plant.

6.5 BIODIVERSITY

MCO manages biodiversity in accordance with the Biodiversity Management Plan (BioMP). The BioMP was developed by MCO with input from experienced and qualified experts (EcoLogical Australia) to satisfy Condition 36, Schedule 3 of PA 05_0117 (as modified) and Condition 39, Schedule 3 of PA 08-0135 (as modified).

Offset management is also undertaken in accordance with relevant components of the Landscape Management Plan and Biodiversity Offset Management Plan (EPBC 2008/4444) and Biodiversity Offset Management Plan (EPBC 2013/6926).

The objectives of the management plans are to provide procedures and strategies to be implemented during the life of the Project to minimise biodiversity impacts on site (albeit in consideration of the approved impacts) and enhance biodiversity values on the offset areas. In addition to monitoring, the management plans describe procedures for:

- Vegetation Clearance Protocol – including Ground Disturbance Permits (GDPs), Pre-clearance surveys, habitat features, identification of suitable release locations.
- Collection and use of locally sourced native seed and supplementary tubestock.
- Strategies to manage vegetation onsite and improve vegetation connectivity.
- Additional biodiversity measures – e.g., progressive rehabilitation where available, weed and pest management, surface water management and erosion control, access restrictions, and bushfire management.

The objective of biodiversity monitoring is to evaluate the vegetation and fauna habitat condition at the MCC (including recovery and/or enhancement of native vegetation) and to identify appropriate management actions to be applied, where required. Biodiversity monitoring relating to the vegetation management zone also includes weed and vertebrate pest monitoring. Monitoring is used to measure success against the short, medium and long-term targets described in the management plans and

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identify the need for corrective actions. Monitoring of mine rehabilitation areas is described in the Rehabilitation Management Plan (RMP).

6.5.1 BIODIVERSITY OFFSET SECURITY

Each biodiversity offset area (BOAs) (**Figure 2-3**) is secured and managed for long-term biodiversity conservation. Security of BOAs include:

- Positive and Restrictive Covenants
- Transfer to the National Parks Estate
- Conservation Agreements
- Biodiversity Stewardship Agreement

The management and security mechanisms for each BOA, including approval requirements and status are provided in **Table 22**.

Table 22 Security Mechanism and Management Instrument

Environmental Approval	Offset Area	Security Mechanism	Status
NSW Stage 1 and EPBC 2007	Area 1 (Sydney Basin)***	Covenant	Secured
NSW Stage 1 and EPBC 2007	Portion of Area 1 (Sydney Basin)	National Park Estate*	Transferred to NPE
NSW Stage 1 and EPBC 2007 and 2017	Area 2 (Moolarben)	Covenant	Secured
NSW Stage 1 and EPBC 2007	Portion of Area 2 (Moolarben)	National Park Estate* & State Conservation Area	Transferred to NPE
NSW Stage 1 and EPBC 2007	Area 3 (Property 6)	Covenant	Secured
NSW Stage 1 and EPBC 2013	Clarke	Covenant	Secured
NSW Stage 1 and EPBC 2013	Clifford	Covenant	Secured
NSW Stage 1 and EPBC 2013	Elward	Covenant	Secured
NSW Stage 1 and EPBC 2013	Property 5	Covenant	Secured
NSW Stage 1 and EPBC 2013	Bobadeen (West & East)	Covenant	Secured
NSW Stage 1 Only	Moolarmoo	Covenant	Secured
NSW Stage 1 Only	Properties 24 and 25	Covenant	Secured
NSW Stage 2 and EPBC 2008	Onsite Offsets	Covenant	Secured
NSW Stage 2 and EPBC 2008	Old Bobadeen	Covenant	Secured
NSW Stage 2 and EPBC 2008	Libertus	Covenant	Secured
NSW Stage 2 and EPBC 2008	Ulan 18	Covenant	Secured
NSW Stage 2 and EPBC 2008	Dun Dun East	Covenant	Secured
NSW Stage 2 and EPBC 2008	Dun Dun West	Covenant	Secured
NSW Stage 2 and EPBC 2008	Avisford 1	National Park Estate**	Transferred to NPE
NSW Stage 2 and EPBC 2008	Avisford 2	Conservation Agreement	Secured
NSW Stage 1 and EPBC 2017	OC2/3 Rehabilitation	RMP	Ongoing
NSW Stage 1 and EPBC 2017	Gilgal	Biodiversity Stewardship Agreement	Secured

Notes: * To be managed by NPWS in accordance with the Goulburn River National Park and Munghorn Gap Nature Reserve Plan of Management (NSW National Parks and Wildlife Service). ** To be managed by NPWS in accordance with the Avisford Nature Reserve (ANR) Plan of Management (NSW National Parks and Wildlife Service). *** Area 1 and Property 2/25 were modified in 2024 to excise areas of interaction associated with the Central-West Orana Renewable Energy Zone Transmission Project.

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6.5.2 BIODIVERSITY OFFSET WORKS UNDERTAKEN

During the Reporting Period weed, waste and feral animal monitoring and control works were undertaken throughout the offsets. Wild dog baiting programs, feral pig baiting, trapping and shooting, and feral goat removals were undertaken within biodiversity offset properties, in consultation with the NSW Local Land Service (LLS) and neighbouring landholders. Weed control works were undertaken throughout the offset areas focusing on Serrated Tussock, Blackberry, Blue Heliotrope, Tree of Heaven, St Johns Wort, African Lovegrass, Spiny Burr Grass and Prickly Pear. Waste removal across MCO offsets was completed with a focus on the Elward offset property. Native seed collection continued within MCO owned lands and some offset areas.

Revegetation works continued with approximately 26,440 stems planted to supplement natural regeneration in the Bobadeen, Moolarmoo and Onsite Biodiversity Offsets. Details on planned 2026 revegetation works are presented in **Section 6.5.5**.

6.5.3 BIODIVERSITY OFFSET MONITORING

Following a 2024 comprehensive review of the monitoring program and commitments contained within the approved management plans, the monitoring program was rationalised to reduce unnecessary repetition, consolidate requirements and provide more relevant data to MCO. Subsequently changes were implemented in the monitoring program during 2025.

Flora and fauna monitoring during the Reporting Period included the Stage 1, Stage 1 Mod 9, and the Stage 2 BOAs. Both fauna and flora monitoring included monitoring of analogue sites located in National Parks or State Conservation Areas. Monitoring locations are provided in **Appendix 2**.

BOA monitoring included:

- Full floristic surveys.
- Rapid flora assessment.
- Fauna surveys targeting diurnal and nocturnal birds, reptiles, amphibians, mammals, microbats and habitat assessment.

Monitoring is undertaken across two management zones that have previously been mapped within the BOAs. Each of these zones have defined strategic ecological management objectives, with an overall aim to achieve a sustainable landscape with improved overall ecological quality in the long term. The management zones are:

- Management Zone 1 (MZ1/OMZ1) – Enhancement of remnant vegetation
- Management Zone 2 (MZ2/OMZ2) – Regeneration/revegetation of grassland to forest/woodland.

Stage 1 Offset Monitoring Outcomes

All Stage 1 BOAs achieved the representative overstorey, weed occurrence and feral animal occurrence completion criteria across MZ1 and MZ2 sites. Neither Area 1 nor Area 2 offsets have yet met the representative species regeneration completion criteria with the exception of Box Woodland in BOA Area 1. Area 2 met the representative groundcover species completion criteria in autumn however did not achieve this completion criteria in spring.

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Area 3 was the only stage 1 BOA to achieve all completion criteria outlined in the Land Management Plan (LMP) meeting all criteria for representative overstorey and ground cover species presence, representative species regeneration and weed and feral animal occurrence.

Trends in overall biodiversity values

Overall, the Stage 1 BOAs have continued to demonstrate substantial progress towards meeting the Stage 1 completion criteria, with the majority of BOAs managed under the LMP being either fully compliant with completion criteria or showing clear trajectories towards compliance with completion criteria.

Stage 1 MOD 9 Offset Monitoring Outcomes

The monitoring of Stage 1 MOD 9 BOAs is documented under the MOD 9 Biodiversity Offset Management Plan (BOMP). MZ1 sites were monitored in autumn 2024, therefore only MZ2 sites were monitored in 2025 in accordance with the MOD 9 BOMP. Completion criteria will have been achieved when the vegetation has either achieved the relevant Biometric Vegetation Type (BVT) benchmark condition (for at least one upper structural layer and one ground cover class) or it can be demonstrated that it is on a self-sustaining trend towards the relevant benchmark condition.

Across Bobadeen, Clarke, Properties 24 & 25 and Property 5 all Blakely's Red Gum – Yellow Box grassy open forest or woodland sites achieved all completion criteria. Clarke was the only BOA to achieve all overstorey/midstorey completion criteria across all BVTs.

The ground cover completion criteria was achieved at Clarke, Properties 24 & 25 and Property 5. At least 50% of sites across the Bobadeen and Moolarmoo BOAs achieved the groundcover completion criteria. Vegetation at the Moolarmoo BOA has not yet achieved overstorey/midstorey or groundcover completion criteria.

Trends in overall biodiversity values

Both Bobadeen and Moolarmoo MZ2 sites recorded lower values against the overstorey/midstorey criterion when compared to 2024, results recorded in 2025 align more closely to previous monitoring suggesting an overestimate in 2024 NOC and NMC percentages. It has been reported by Epic Environmental that the 2025 results are not indicative of a decline in site condition.

Overall, most MOD 9 MZ2 sites meet at least one of the groundcover benchmark ranges and therefore are achieving the groundcover completion criterion. With the exception of Clarke there is a limited presence of established midstorey and overstorey structural layers at many MZ2 sites impacting the achievement of overstorey/midstorey completion criteria.

Natural regeneration of midstorey and overstorey species are present across some MZ2 sites, assisted regeneration is already underway at multiple MOD 9 offsets and set to continue into the future therefore key vegetation cover metrics across MZ2 sites are expected to continue to improve. Refer to **Section 6.5.5** for details on next Reporting Period.

Stage 2 Offset Monitoring Outcomes

The monitoring of Stage 2 offsets is managed under the Stage 2 BOMP and associated Cluster management plans (CMPs). OMZ1 sites were monitored in autumn 2024, therefore only OMZ2 sites

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were monitored in 2025 in accordance with the Stage 2 BOMP. The following summarises the performance of Stage 2 BOAs against the outcomes described in the Stage 2 BOMP:

- For Offset Outcome 1(a) (woodland/forest and Derived Native Grassland [DNG]) areas:
 - At all sites where overstory species were recorded, the number of species was consistent or greater than previously recorded and demonstrates that overstory species are healthy and developing.
 - Libertus and Onsite Offset BOAs are achieving the performance indicator for natural and/or assisted regeneration in DNG areas.
 - Across Dun Dun East, Dun Dun West and Onsite offsets at least one of three completion criteria are being met
 - With on-going management, all BOAs are expected to achieve completion criteria by 2065
- For Offset Outcome 1(b) (Box Gum Woodland EEC – Woodland and DNG) areas:
 - All sites within Outcome 1(b) are achieving all performance indicators in 2025
 - All Outcome 1(b) areas of Dun Dun East are achieving at least two of four completion criteria with three sites achieving three of four completion criteria
 - With on-going management, all BOAs are expected to achieve completion criteria by 2065
- For Offset Outcome 2(c) (Existing Grassland to forest/woodland) areas:
 - At all sites where overstorey species were recorded, the number of species was consistent with or greater than that recorded in the previous monitoring event
 - Two of three sites across Old Bobadeen BOA and Onsite BOAs are currently achieving at least one of four completion criteria.

6.5.4 ACTIONS FOR NEXT REPORTING PERIOD

During the next period activities to be undertaken include review and consolidation of biodiversity offset management plans, continued monitoring, assisted regeneration planning and implementation, fencing repair/installation, track and fire trail works, continued weed and feral animal control works.

There are three existing flora and three fauna monitoring sites that are expected to be impacted by the Energy Co works planned to commence in 2026. Consequently, flora sites 14a (Area 1), 2c (Area 1), FI31 (Property 24/25) and fauna sites Fa14a (Area 1), Fa2b (Area 1) and Mod9_Fa31 (Property 24/25) will need to be re-established during the 2026 autumn monitoring campaign. These sites were planned to be re-established during 2025 in their respective BOA however due to delays on Energy Co works they will be re-established as part of the 2026 monitoring program.

6.6 HERITAGE

MCO manages heritage in accordance with the Heritage Management Plan (HMP). The current HMP (Version 10) was approved in January 2025. During the Reporting Period MCO continued the salvage and management of Aboriginal heritage sites associated with the project. The results of all survey and salvage activities during the period have been included in the MCO heritage database.

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Annual inspections of historic heritage conservation areas were completed during 2025, the areas continue to be managed in accordance with the HMP. In 2025 MCO held annual Aboriginal Cultural Heritage meeting and a Yancoal Indigenous Cultural Heritage Awareness Training session was delivered on 7 November 2025.

6.6.1 ACTIONS FOR NEXT REPORTING PERIOD

Further salvage and management of Aboriginal and European heritage sites associated with the project may be completed during the next Reporting Period. Registered Aboriginal Party (RAP) groups will continue to be consulted and involved in due diligence and salvage works in accordance with the Heritage Management Plan.

6.7 BUSHFIRE

There were no major occurrences of bushfire across the MCC during the Reporting Period. On the 20th and 27th November 2025 minor bushfires started by lightning strikes were recorded in MCO Biodiversity Offset areas (BOA). An area of approximately 0.3 hectares was burnt in the Dexter Mountain / Property 5 BOA and an area of approximately 1.5 hectares was burnt in the UG4 Area 2 BOA. Both fires were identified quickly and effectively controlled by local RFS and MCO.

MCO continued to implement the Bushfire Management Plan and conducted bushfire trail inspections and maintenance across MCO owned land. Inspection and maintenance work on fire trails will continue in the next Reporting Period.

6.8 WASTE MANAGEMENT

During the Reporting Period MCO continued to maintain a Total Integrated Waste Management Service to manage all waste streams generated on site and to maximise recycling. This includes general waste, cardboard and paper recycling, batteries, waste oil and steel. The volumes of total waste and recycled material removed from site are shown in **Table 23**. During the Reporting Period 71% of all waste removed from site was recycled. Waste volumes have been variable since 2013, with volumes increasing in association with the expansion of the operations, commencement of underground operations and construction works. 2025 recorded a lower total waste tonnage (t) compared with 2024, which is indicative of a backlog of waste management contractor servicing rather than a reduction in operations. Overall recycling trends since 2021 have remained above 70%.

Table 23 Offsite Waste Removal Volumes 2021-2025

	2021	2022	2023	2024	2025
Total Waste (t)	3485.2	3682.2	4157.8	4713.1	4337.4
Recycled Waste (t)	2578.4	2669.0	3059.9	3433.9	3112.7
Percentage Recycled (%)	74%	72%	74%	73%	71%

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7.0 WATER MANAGEMENT

MCO manages water in accordance with the Water Management Plan (WMP). The WMP (Version 7) and its component plans including Site Water Balance (SWB) (Version 5), Surface Water Management Plan (SWMP) (Version 7) and Groundwater Management Plan (GWMP) (Version 4). The WMP was revised and approved in November 2023.

During the Reporting Period, MCO undertook water monitoring and data review in accordance with the WMP. Surface water and groundwater monitoring sites are provided in **Appendix 2**. Surface water monitoring includes:

- Surface water quality and flow (monthly/6 monthly/event based);
- Stream health (annually);
- Channel stability (annually);
- Mine site water management structures quality (monthly); and
- Licensed discharge points.

Groundwater related monitoring includes:

- Groundwater levels/pressure (monthly);
- Groundwater quality (6 monthly);
- Groundwater take; and
- Potential seepage from mine water storages.

The groundwater monitoring program includes the following lithological units:

- Quaternary alluvium;
- Tertiary aged unconsolidated sediments;
- Triassic sandstones;
- Permian coal measures;
- Ulan seam coal;
- Marrangaroo formation; and
- Basement units (consisting mostly of granites and metavolcanics).

During the period MCO continued to maintain and construct water storages (mine, brine, and sediment storages), extended the dewatering and transfer network and installed operational and construction related erosion and sediment controls.

Details of water licensing and associated take are provided in **Section 7.1**. A summary of the site water balance is provided in **Section 7.2**. A summary of surface water monitoring and groundwater monitoring results for the Reporting Period are provided in **Section 7.3** and **Section 7.4** respectively. Detailed surface water and groundwater monitoring results for the Reporting Period are provided at **Appendix 3F** and **Appendix 3G** respectively.

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7.1 WATER LICENCES

A summary of water take and available entitlement under Water Access Licences for the Reporting Period (1 January to 31 December 2025), as well as a prediction for the next Reporting Period (1 January to 31 December 2026) is provided in **Table 24**. Water take is provided in six monthly periods to coincide with the water year (i.e. 1 July 2023 to 30 June 2024 and 1 July 2024 to 30 June 2025).

Table 24 Water Licences and Take

Water Access Licence	Description	MCO held entitlement (Units) ¹	2025 Estimated Water take (ML) ²			2026 Forecast Water Take (ML)
			Jan – Jun	Jul - Dec	Total	
36340 37583, 19424	Wollar Creek Water Source	446	48	47	95	259
37582, 41888, 19052	Upper Goulburn River Water Source	257	42	41	83	164
39799	Sydney Basin - North Coast Groundwater Sources	5900	978 ³	965 ³	1,943 ³	2,779

Notes: ¹One unit equivalent to 1.0 ML as per the *Available Water Determination Order for Various NSW Unregulated and Alluvial Water Sources (No. 1) 2018* and *Available Water Determination Order for the North Coast Coastal Sands and the North Coast Fractured and Porous Rock Groundwater Sources 2018* for the 2020/21 water year. Available water is reported in IWAS including carry-over and temporary transfers.

²Groundwater Model and water balance used to estimate water take by water source. ³ No water was directly extracted from WAL 39799 tagged groundwater extraction bores.

Water take is estimated as part of the Annual Review after the end of the calendar year. MCO determines water take in accordance with the approved Water Management Plan (WAMP). Water take is either groundwater inflow removed from the operation, water extracted from licenced bores or modelled take from surface and alluvial aquifers. The review estimate incorporates site water balance reconciliations, recirculation to underground and water take for the period. Indirect or passive take is based on modelling predictions for the relevant period.

Water take by water source has been determined in consideration of the most recent Groundwater Model associated with the UG4 Extraction plan. The estimated water take during the 2025 calendar year has been summarised in **Table 24**. The licensed water entitlement held by MCO for 2024/25 water year for all water sources was greater than the water take. MCO will continue to take necessary action to ensure that it holds sufficient water entitlements.

7.2 WATER BALANCE

MCO monitors the water balance for the operation to assist forecasting and management of site water. The site water balance (**Table 25**) for the Reporting Period was prepared with input from suitably qualified and experienced consultants Hydrobalance and AGE. Site water storage reduced by 777ML during the Reporting Period mostly due to site operational requirements. The main demands were coal processing and dust suppression. The overall site water balance reduced by 777ML (15.4%) throughout 2025. During the Period, no water was extracted from licenced Production Bores.

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Table 25 Site Water Balance

Water Sources (Inflows)	Volume (ML)
UCML Water	0
Groundwater Extraction (bores)	0
Rainfall / runoff	2,086
Groundwater inflows*	2,957
Total	5,043
Water Loss (Outflows)	
Evaporation	779
Seepage	0
Construction & dust suppression	1,870
Licensed Discharge	1,611
CHPP Demand	1,726
Underground demand	294
Total	6,279
Water Balance	
Inflows minus outflows	-1,237
Change in site storage inventory	-460
Balance	-777 (-15.4%)

Notes *includes all Water Access Licence's referenced in **Table 24**.

7.3 SURFACE WATER

7.3.1 SURFACE WATER QUALITY AND FLOWS

Surface Water Flows

The MCC is within the Upper Goulburn River and Wollar Creek catchments. Moolarben Creek and Sportsmans Hollow Creek are the primary tributaries of the upper Goulburn River catchment with Bora Creek a minor tributary. Wilpinjong Creek and its minor tributaries ("Eastern"⁴ and Murragamba Creeks) drain to the Wollar Creek. Most of the adjacent watercourses are ephemeral in nature.

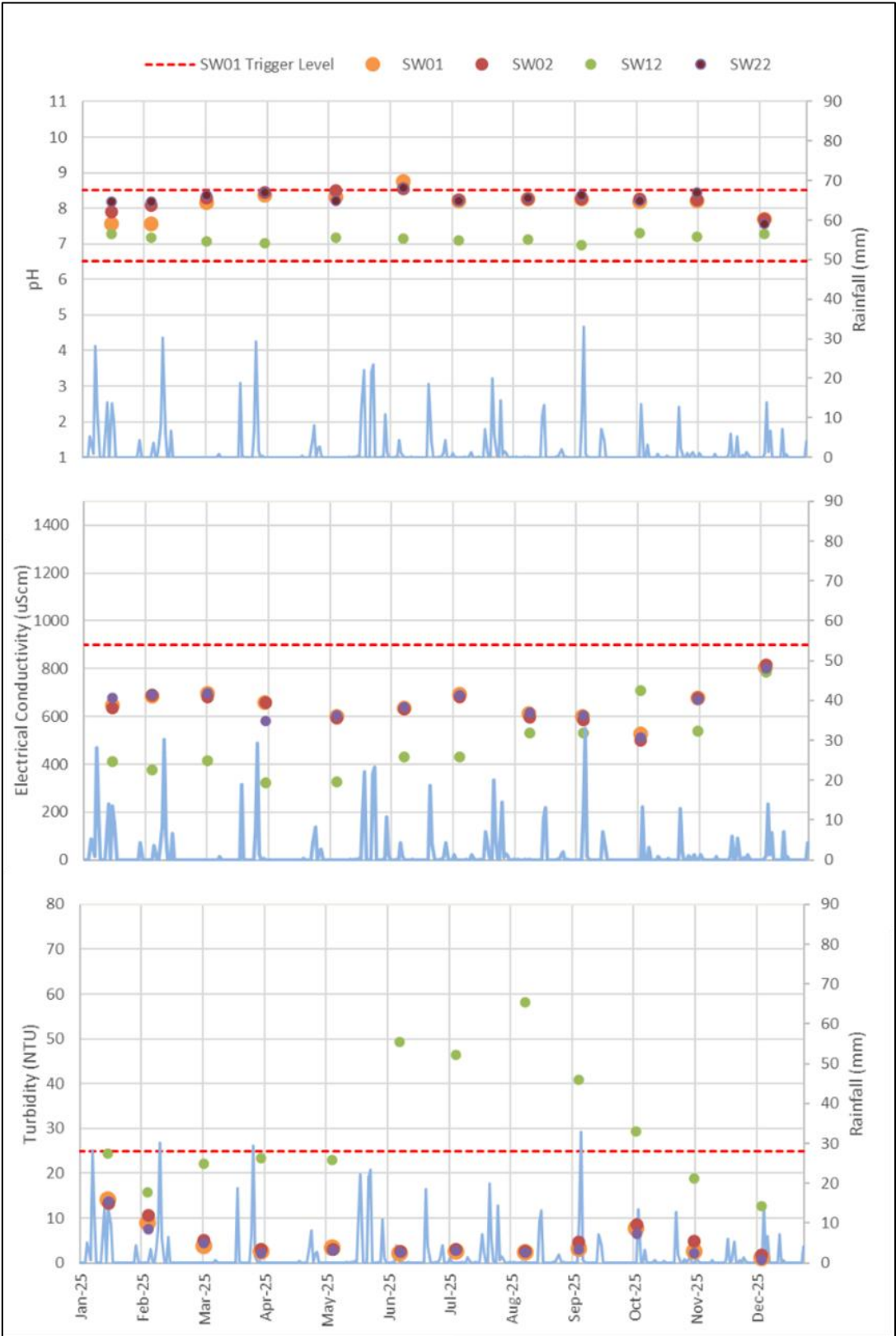
In accordance with the SWMP, stream flow gauges have been installed in the ephemeral Wilpinjong, Murragamba, and "Eastern" creeks. The "Eastern" Creek flow gauge was removed in 2025 due to mining progression. Stream flow gauges have also been installed in the Goulburn River in accordance with the UG4 Extraction Management Plan and recommendations from the Independent Advisory Panel for Mining. Surface water flow is heavily influenced by rain events. Data has been supplemented with data from Ulan Coal Mines as required. The recorded stream gauging is provided in **Appendix 3F**.

Surface water monitoring was undertaken in the Goulburn River, Moolarben Creek, Wilpinjong Creek, Murragamba Creek, and "Eastern Creek" in accordance with the SWMP. Results varied both spatially and temporally consistent with fluctuations associated with rainfall events in ephemeral watercourses. Monitoring results during the Reporting Period were influenced by below average rainfall. The findings are described in **Table 26**. Water quality data for the period is presented in **Figures 7-1 to 7-4**. Monitoring data is provided in **Appendix 3F**.

⁴ "Eastern" Creek is a small intermittent watercourse that drains through the eastern section of the area Open Cut No. 4 as identified in the Moolarben Coal Stage 2 Surface Water Management Strategy (Appendix 6A).

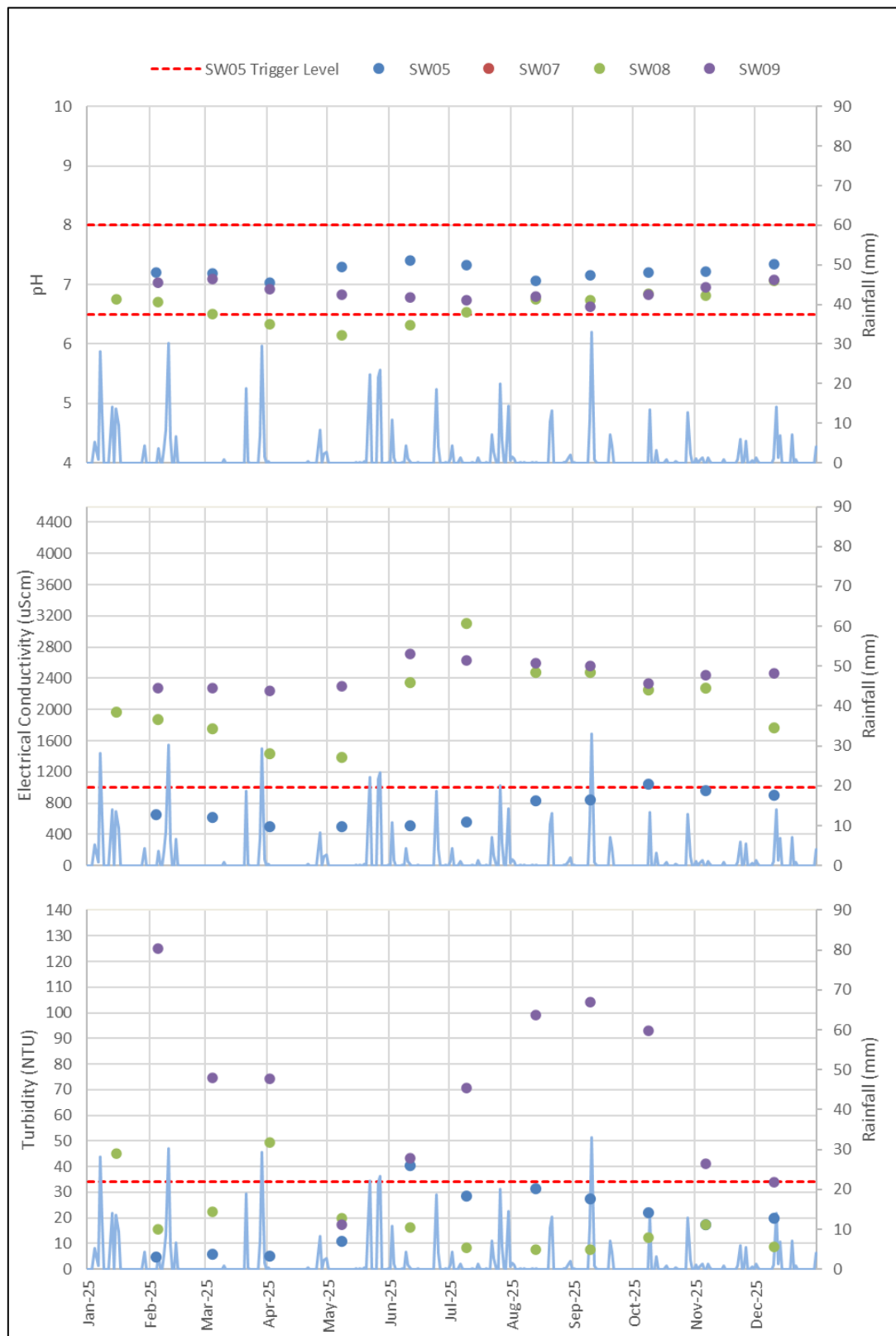
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Figure 7-1 Goulburn River Water Quality



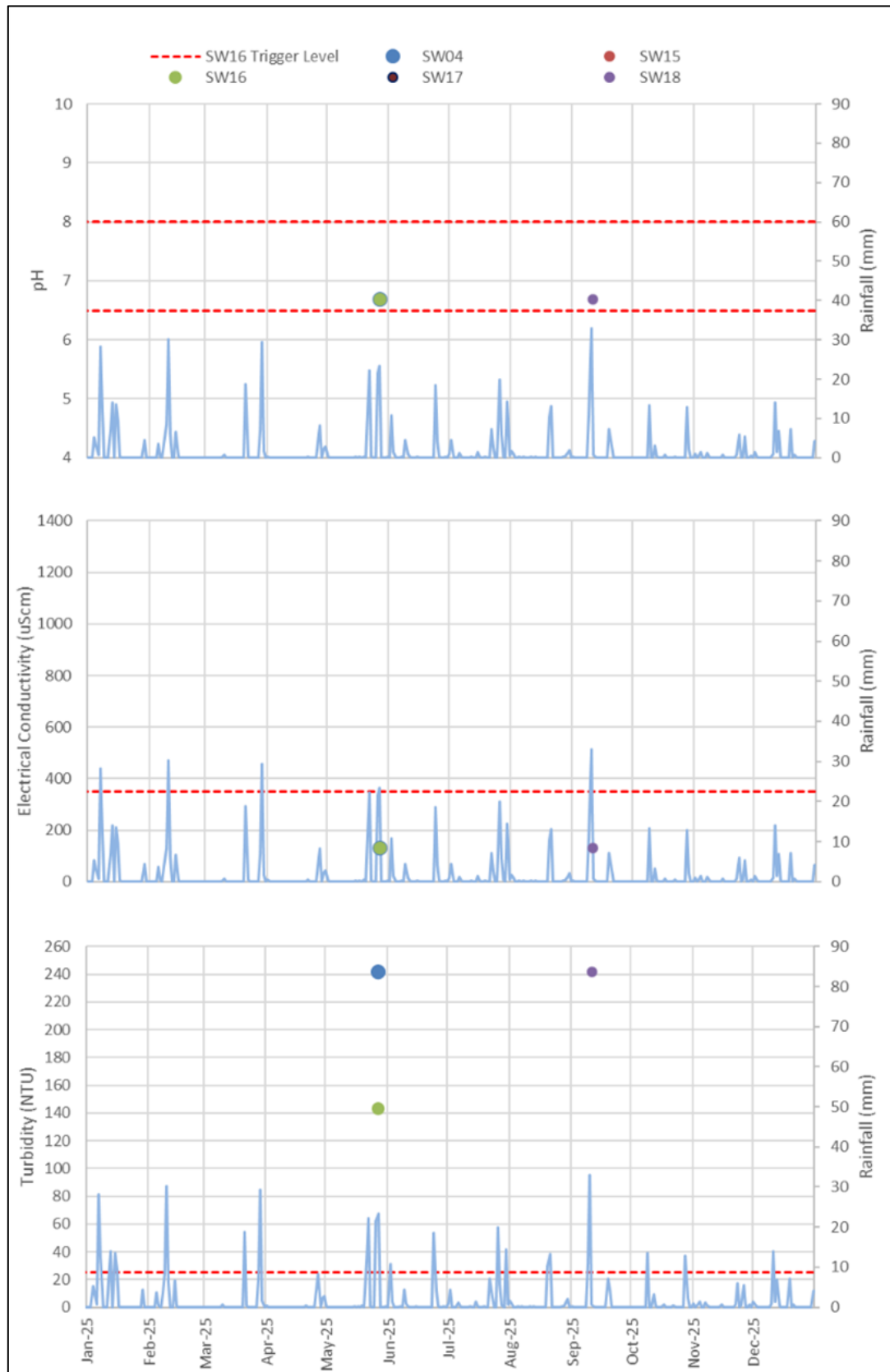
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Figure 7-2 Moolarben and Lagoon Creek Water Quality



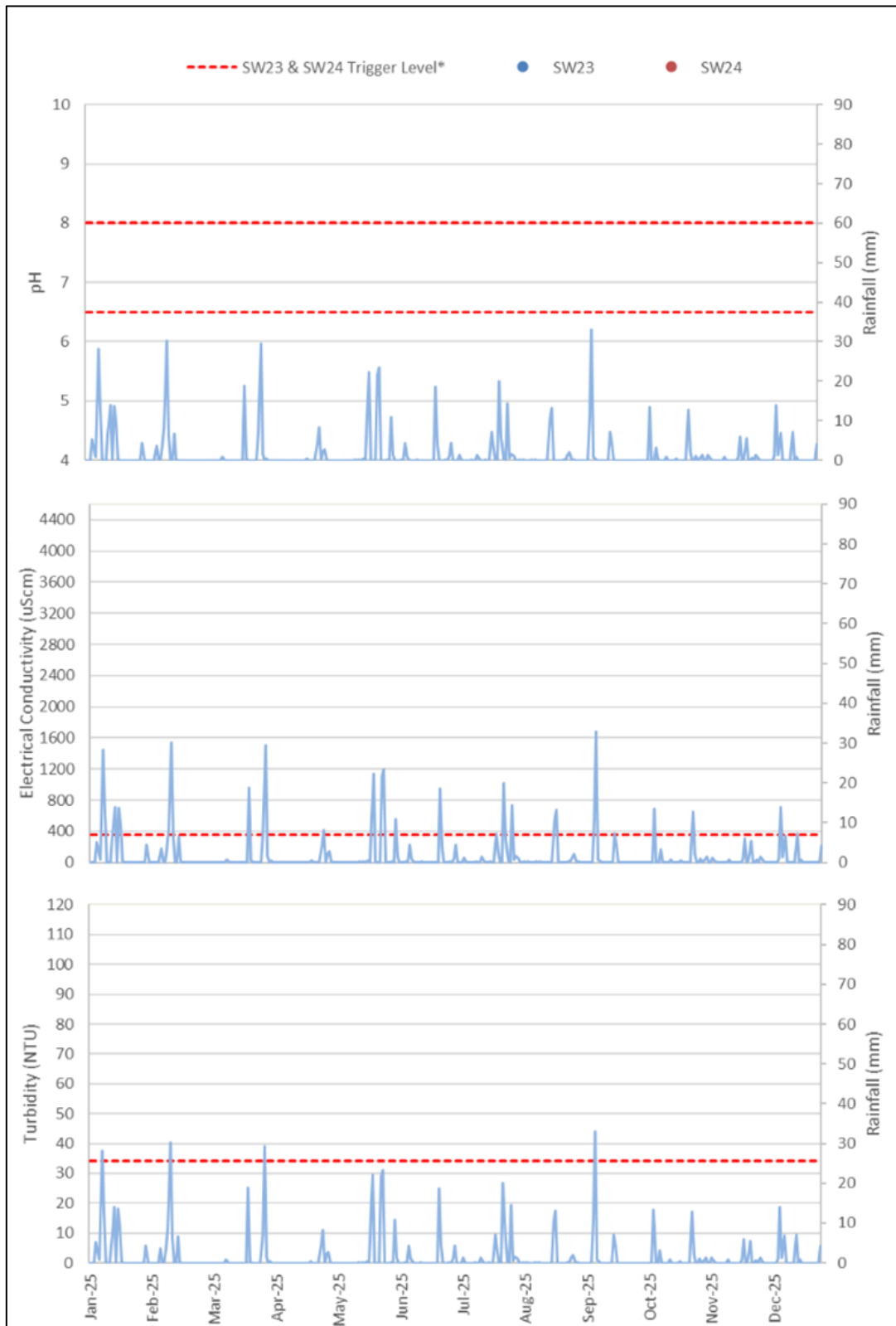
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Figure 7-3 Murragamba, “Eastern” and Wilpinjong Creek Water Quality



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Figure 7-4 UG4 Drainage Line 1 & 2 Water Quality



Notes *SW23 & SW24 were not flowing during 2025

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Table 26 Comparison to Baseline and Trends

Location	Trigger Investigation Values (20 th / 80 th %ile or ANZECC Guideline)		Performance during the Monitoring Period (01/01/2025 – 31/12/2025)	Trend/ Key Management Implications (Monitoring Period 01/01/2021 – 31/12/2025)	Implemented / proposed Management Action
Surface Water Quality					
Goulburn River Sites; SW01* SW02 SW12 SW22	pH	6.5 – 8.5	Surface water pH in the Goulburn River at SW01 ranged from 7.6 to 8.7 (20th and 80th percentiles) during 2025, which is within the SW01 trigger levels (6.5 – 8.5). Surface water pH in the Goulburn River at SW02, SW12 and SW22 ranged from 6.1 to 8.5 (20th and 80th percentiles) during 2025. These values are consistent with historical data from previous years.	pH readings range between 7.7 and 8.4 (20th and 80th percentiles) for SW01, SW02 and SW22, and between 7.1 and 7.6 (20th and 80th percentiles) for SW12. The pH levels at SW01 for all readings are generally within the trigger levels.	Continue the implementation of the SWMP. MCO will review, and if necessary, revise the SWMP in accordance with Schedule 5 condition 5 and Schedule 6 condition 5 of PA05_0117 and PA08_0135 respectively.
	EC	900	The EC readings in the Goulburn River at SW01 were generally consistent with the samples over the last five years. EC readings at SW01 ranged from 524 to 696 µS/cm (20th and 80th percentiles) and all samples were less than the SW01 trigger level (900 µS/cm). EC readings in the Goulburn River at SW02, SW12 and SW22 ranged from 217 µS/cm to 707 µS/cm (20th and 80th percentiles) during 2025.	EC readings range between 563 and 705 µS/cm (20th and 80th percentiles) for SW01 and between 563 and 715 µS/cm (20th and 80th percentiles) for SW02 and SW22. EC readings range between 340 and 661 µS/cm (20th and 80th percentiles) for SW12.	
	Turbidity	25	The turbidity readings in the Goulburn River at SW01 were generally consistent with the historical data. Turbidity readings at SW01 ranged from 1.8 to 13.9 NTU (20th and 80th percentiles) and all samples were below than the SW01 trigger level (25 NTU). Similarly, the turbidity samples over 2025 in SW02, SW12 and SW22 in the Goulburn River were generally consistent with historical data.	Turbidity readings range between 2.1 and 10.1 NTU (20th and 80th percentile) for SW01 and between 2.3 and 10.6 NTU (20th and 80th percentile) for SW02 and SW22. Turbidity readings range between 18.3 and 46.8 NTU (20th and 80th percentile) for SW12.	

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Location	Trigger Investigation Values (20 th / 80 th %ile or ANZECC Guideline)		Performance during the Monitoring Period (01/01/2025 – 31/12/2025)	Trend/ Key Management Implications (Monitoring Period 01/01/2021 – 31/12/2025)	Implemented / proposed Management Action
Moolarben and Lagoons Creek Sites; SW05* SW07 SW08 SW09	pH	6.5 – 8.0	Surface water pH in Moolarben Creek at SW05 ranged from 7.0 to 7.4 (20 th and 80 th percentiles) during 2025, which is within the SW05 trigger levels (6.5 – 8.0). pH at the other Moolarben and Lagoon Creek locations was consistent with the historical data.	pH at SW05 was neutral to slightly alkaline ranging from 7.2 to 7.7 (20 th and 80 th percentiles) and generally remained within the trigger levels of 6.5 to 8.0 defined for this location. Most readings are within the trigger levels, however there were two high readings in September 2022 (8.33) and January 2023 (8.11). There was a slight increase in pH levels across all monitoring locations in Moolarben Creek during 2022 in comparison to the previous year, but this trend has somewhat reversed over 2023 and 2024 and showed little change in 2025.	
	EC	1,000	Surface water EC in Moolarben Creek at SW05 ranged from 502 to 1040 µS/cm (20 th and 80 th percentiles) during 2025. Upstream (non-mine impacted) EC readings continued to be elevated and are consistent with historical records.	EC readings at SW05 range between 498 and 990 µS/cm (20 th and 80 th percentiles) and are generally lower than the SW05 trigger level. All of the samples in SW05 between June and November 2021 exceeded the SW05 trigger level. An investigation into the exceedances was undertaken by HEC (2021), which concluded that they were caused by spillway overflows, releases and seepage from Moolarben Dam. Moolarben Dam contained higher EC water from the upstream catchment which contributes higher EC water as evidence by the historical EC readings at SW07, SW08 and SW09. In 2022 and 2023, the EC readings had exceeded the trigger level four times in April/June/December 2022 and January 2023. The higher EC levels in April and June correspond with increased EC levels in the upstream sampling location. During December 2022 and early	

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				January 2023, site TER releases influenced EC levels at the downstream monitoring locations.	
	Turbidity	34	Turbidity readings after a significant rainfall event (>30 mm in 24 hours) at SW05 are often above the trigger level with rainfall events also being more frequent in 2025. There is no discernible trend in turbidity at these locations over the last five years.	The 20th percentile turbidity readings for all four monitoring locations ranges between 0.6 and 8.4 NTU, while the 80th percentile ranges between 7.2 and 75.6 NTU. There are several recordings that exceed the trigger level within 2024 and 2025, however they are generally consistent with historical recordings. The elevated turbidity readings are associated with rainfall events or during low flow conditions. Turbidity readings at SW05 range from 6.4 to 26.1 NTU (20th and 80th percentile) and are below the trigger level of 34 NTU defined for this location (with the exception of five exceedances in February 2024, June, July and August 2024, and June 2025. Turbidity readings after a significant rainfall event (>30 mm in 24 hours) at SW05 are often above the trigger level with rainfall events also being more frequent in 2024. There is no discernible trend in turbidity at these locations over the last five years.	
Murragamba, “Eastern” and Wilpinjong creeks	PH	6.5-8.0	Due to being dry during the Reporting Period, there were no pH readings in Wilpinjong Creek at SW16. All other turbidity readings were consistent with historical data.	The pH readings range between 6.8 and 7.3 (20th and 80th percentiles) for downstream Murragamba Creek (SW04). Eastern Creek has pH ranging between 6.3 and 7.3 (20th and 80th percentiles) for SW17. Wilpinjong Creek has pH ranging between 6.4 to 7.3 (20th and 80th percentiles) for SW15 and 6.5 to 7.2 for SW18. The pH values at SW16 range from 6.8 to	

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Sites; SW04 SW15 SW16* SW17 SW18				7.2 and are within the trigger levels for Wilpinjong Creek defined at this location (6.5 – 8.0), aside from one reading in January 2023. The pH readings at each of the monitoring locations show a slight increase from 2021 through to 2022, before appearing to reduce again in 2024.	
	EC	714	Due to being dry during the Reporting Period, there were no EC readings in Wilpinjong Creek at SW16. All other turbidity readings were consistent with historical data.	The EC in Murragamba Creek ranges between 211 and 410 $\mu\text{S}/\text{cm}$ (20th and 80th percentiles) for SW04. Eastern Creek has EC ranging between 191 and 328 $\mu\text{S}/\text{cm}$ (20th and 80th percentiles) for SW17. Wilpinjong Creek has EC ranging between 125 to 180 $\mu\text{S}/\text{cm}$ (20th and 80th percentiles) for SW15 and 159 to 478 $\mu\text{S}/\text{cm}$ at SW18. EC results at Murragamba Creek and Eastern Creek show a slight reduction across the 2021 to 2022 period. EC at SW16 is generally within the EC trigger level, with exception of two readings in December 2022 and January 2023. During this period, releases associated with the Temporary Emergency Discharge have influenced monitoring results.	
	Turbidity	25	Due to being dry during the Reporting Period, there were no turbidity readings in Wilpinjong Creek at SW16. All other turbidity readings were consistent with historical data.	Murragamba Creek has turbidity readings between 7.9 and 48.5 NTU (20th and 80th percentiles) for SW04. Eastern Creek has turbidity readings between 22.7 and 77.6 NTU (20th and 80th percentiles) for SW17. Wilpinjong Creek has a turbidity ranging between 16.5 to 54.6 NTU (20th and 80th percentiles) for SW15 and 17.2 to 52.9 NTU at SW18. The turbidity readings at SW16 range from 9.7 to 29.7 NTU. Several readings at	

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Location	Trigger Investigation Values (20 th / 80 th %ile or ANZECC Guideline)		Performance during the Monitoring Period (01/01/2025 – 31/12/2025)	Trend/ Key Management Implications (Monitoring Period 01/01/2021 – 31/12/2025)	Implemented / proposed Management Action
				SW16 exceed the trigger level set for this location. High readings in turbidity are tied to the extended dry periods followed by the intermittent flows. There is a slight variation in turbidity at these locations over the last five years.	
Drainage Line 1 & 2	pH	6.5 – 8.0**	Due to being dry during the Reporting Period no sample was taken.	ND	
SW23*	EC	350**	Due to being dry during the Reporting Period no sample was taken.	ND	
SW24*	Turbidity	25**	Due to being dry during the Reporting Period no sample was taken.	ND	

Notes: * Monitoring site associated with trigger investigation levels. **Triggers will be applicable from the commencement of LW406. ND = No data (i.e. less than 24 monitoring points)

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Rainfall Event Sampling

As per MCO's approved SWMP, rainfall sampling is undertaken where rainfall exceeds 30mm in 24 hours. During the Reporting Period, there were five occasions where rainfall events triggered the requirement to collect additional water samples. All samples were collected within the prescribed timeframes.

7.3.2 WATER DISCHARGES

MCO is licensed to discharge water in accordance with its Environment Protection Licence (EPL 12932) subject to various water quality and rainfall criteria.

During the Reporting Period MCO released water from EPA Licenced Discharge Point 1, ceasing discharge activities on the 7 November 2025. A total of 1,611 megalitres of water were released from MCO during 2025. All compliance limits were met during releases. One MCO Water Treatment Plant discharge sample result taken in accordance with EPL 12932 returned with a zinc level of 0.009mg/L. The design criteria limit is 0.008 mg/L. This was investigated and reported, the elevated result was determined to be a contaminated sample. Discharge results are presented in **Figures 7-5 to 7-9**. A summary of discharge results is provided in **Appendix 3F**.

During the Reporting Period one incident occurred that resulted in the release of sediment laden water at the MCC. On 10 September 2025 sediment laden water passed through installed sediment controls from Dam 424 in OC4, which occurred following a rainfall event. At no stage did the stormwater exceed the capacity of the installed erosion and sediment controls. MCO self-reported the incident to the EPA on the 10th of September 2025.

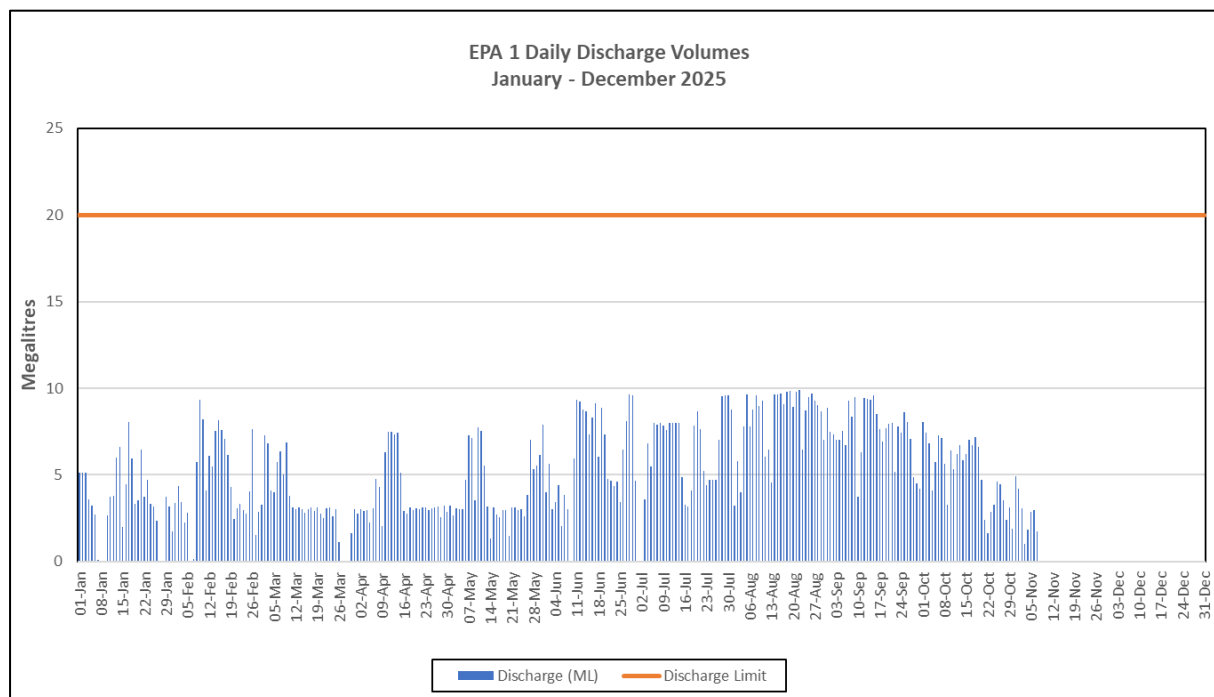


Figure 7-5 Daily Discharge Volumes¹ EPL LDP 1

Notes: ¹ As per the EPL 12932 variation approved 27 April 2023 the daily discharge volume limit increased to 20 ML/d.

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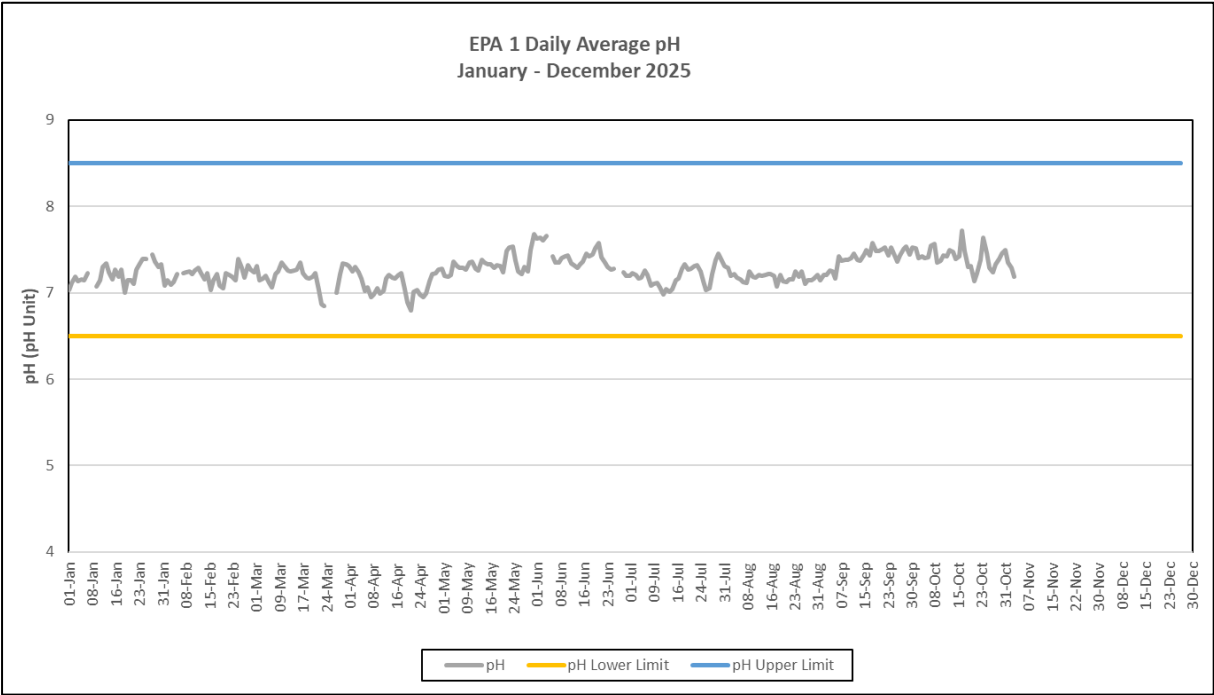


Figure 7-6 EPL LDP 1 Daily Average pH

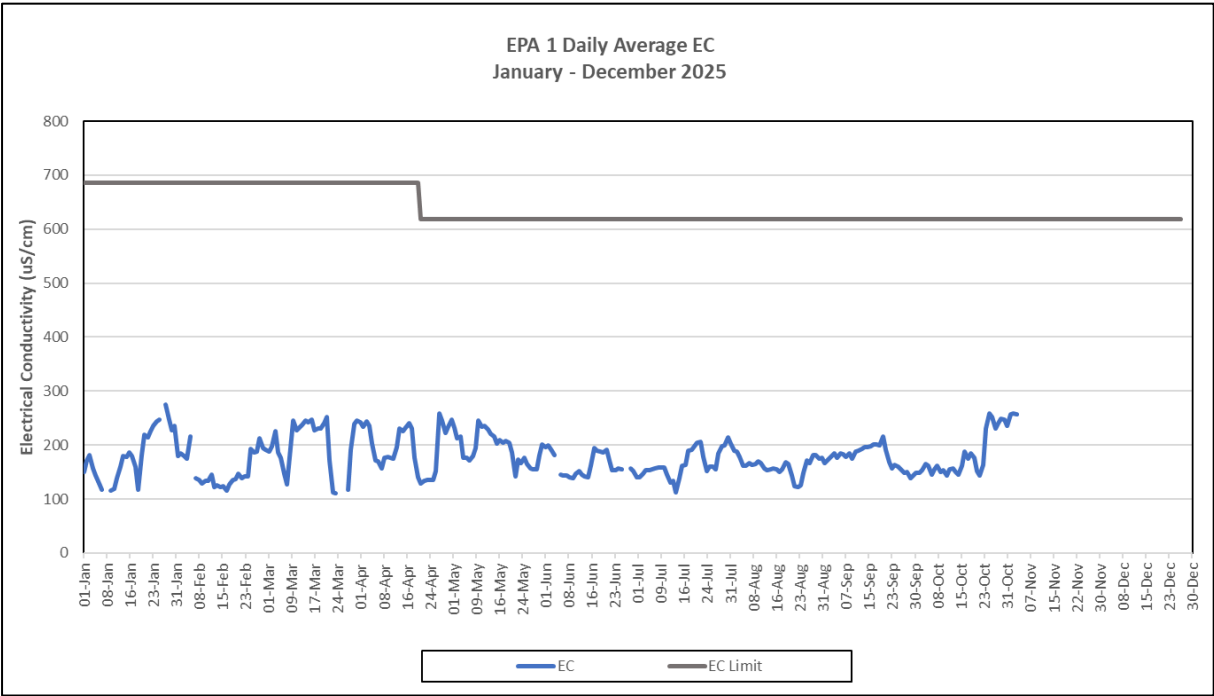


Figure 7-7 EPL LDP 1 Daily Average EC² (µs/cm)

Notes² As per the EPL 12932 variation approved 27 April 2023 the Electrical Conductivity limit reduced in accordance with the Independent Water Quality Assessment.

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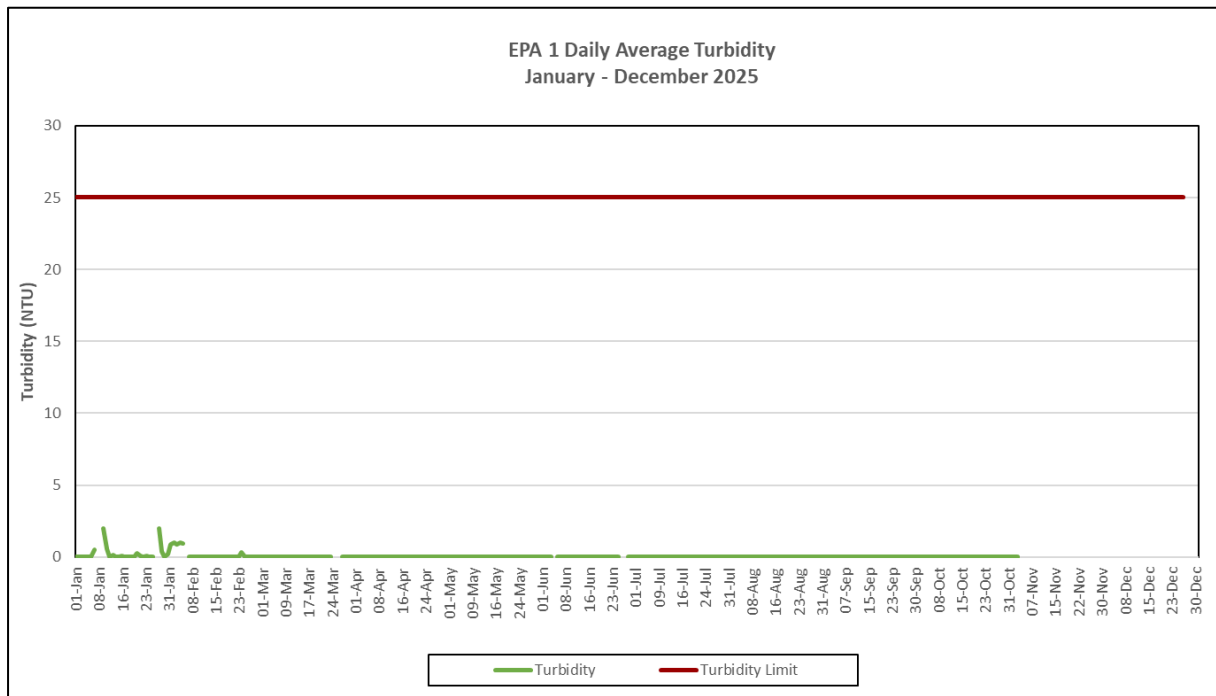


Figure 7-8 EPL LDP 1 Daily Average Turbidity (NTU)

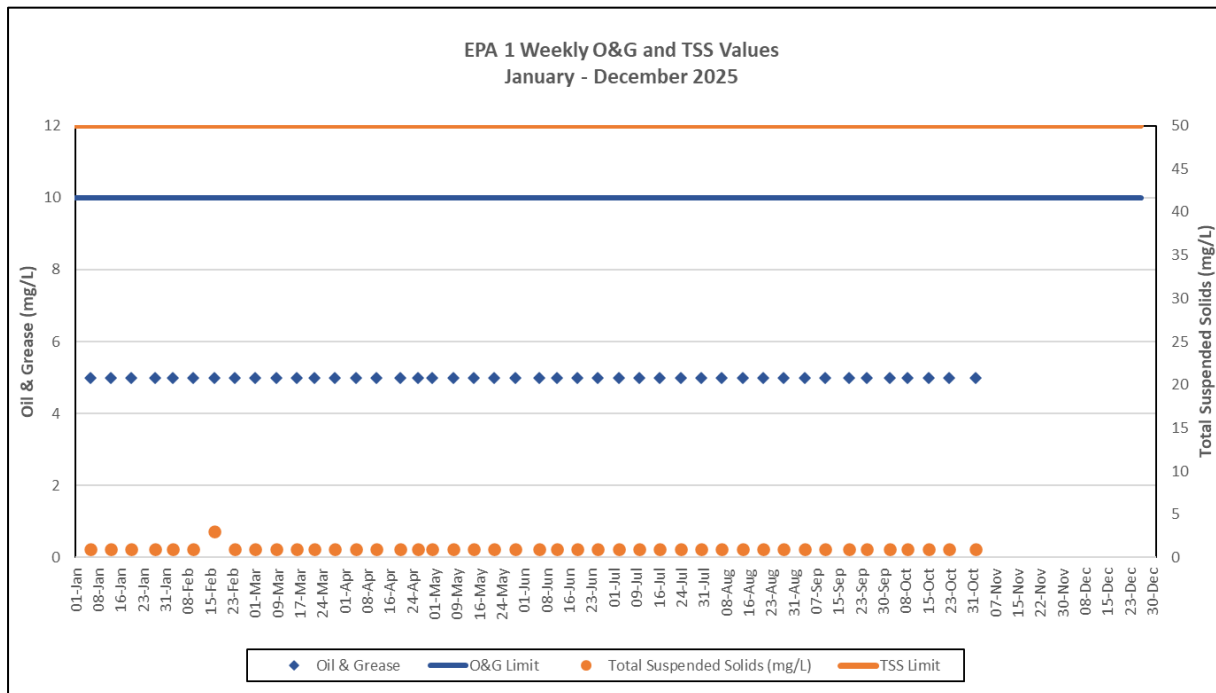


Figure 7-9 EPL LDP 1 Weekly Oil & Grease and Total Suspended Solids (mg/L)

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7.3.3 STREAM HEALTH MONITORING

Stream health monitoring was undertaken in autumn and spring 2025 including Aquatic Habitat Condition (RCE Index), Aquatic Macroinvertebrate Diversity, Pollution Tolerance SIGNAL2 Scores. Trigger investigation values have been incorporated into the SWMP with investigations triggered when values fall below the trigger value. Scores from the autumn and spring monitoring programs were all above the trigger values.

In the lead-up to the spring 2025 survey (undertaken in September 2025), rainfall patterns were highly variable. May was wet with almost double its long-term monthly average (80mm), whereas the combined monthly total over June and July was close to average with 101mm spread over 26 rainfall days. With the exception of a two-day 24mm event in the middle of the month, August was mostly dry with only 31mm. The spring 2025 survey in September was undertaken following 56mm rainfall over the two weeks prior to sampling (33mm recorded on 10 September) which would have replenished pool water levels for the smaller upper catchment and ephemeral sites.

For the autumn 2025 survey site SH22 in Murdering Creek was dry, however there was sufficient water to sample among isolated refuge pools at the site during the spring 2025 survey. Wilpinjong Creek catchment site SH16 was dry during both 2025 surveys and could not be sampled. All other sites had sufficient water to allow sampling. There were no surface flows at Moolarben Creek site SH10 in autumn 2025, with water restricted to isolated refuge pools. There were no surface flows at any of the Wilpinjong Creek sites during the autumn 2025 survey and site SH17 sustained only low flows throughout the site length in spring 2025. Summaries of stream health index results for all monitoring are provided below.

Autumn 2025

Aquatic Habitat Condition (RCE Index) – For the autumn 2025 survey, RCE values ranged from 47% at SH08 to 84% at SH24 (Figure 4). Values were generally consistent with the spring 2024 survey and remained unchanged or slightly reduced at most sites. The only exceptions included SH05 and SH12, which recorded small increases in RCE (<1%). Slight reductions at SH01 and SH14 were attributed to increased macrophyte coverage, with SH14 also showing an increase in filamentous green algae. SH05 also recorded a slight increase in RCE due to greater algal abundance. SH06 was the only site to show a minor reduction in the bank undercutting category, reflecting ongoing erosion. Overall, changes in RCE were minor (<2%) across most sites; however, SH14 recorded the largest change (a 3% difference), driven by a substantial increase in both macrophyte and algal coverage.

Aquatic Macroinvertebrate Diversity – There were 65 macroinvertebrate taxa identified from the 15 sample sites in autumn 2025. The individual site macroinvertebrate taxa diversity results ranged between 14 taxa at Moolarben Creek site SH10 and 31 taxa at both Goulburn River site SH02 and Ryans Creek site SH12 (Figure 6), and many sites recorded large reductions in diversity values compared to the previous wet weather survey in spring (October) 2024. The autumn 2025 diversity results were above the established trigger values at SH02, SH06 and SH17 (Table 1), and of the nine sites for which pre-mining mean values exist, Bobadeen Creek site SH01, SH02 and SH10 were the only sites to record diversity values lower than their pre-mining mean values in autumn 2025. Both SH02 and SH01 contain the highest pre-mining mean value over all sites (at 31.4 and 27.6 taxa respectively),

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and both sites recorded their highest survey taxa diversity within the pre-mining period (39 taxa at SH02 and 32 taxa at SH01).

Pollution Tolerance SIGNAL-2 Scores – The autumn 2025 SIGNAL-2 values ranged between 3.00 at SH17 and 4.28 at SH12 (Figure 8). While the autumn 2025 SIGNAL-2 value was above its established trigger level at SH02, downstream Moolarben Creek site SH06 and Wilpinjong Creek site SH17 were below their trigger levels, with the value at SH17 being its lowest to date. Sites SH01 and SH06 were the only sites to record values below their respective pre-mining mean values, and overall long-term mean site SIGNAL-2 value for autumn 2025 (3.57 ± 0.43) was the lowest since the early post-drought period in autumn 2020.

Spring 2025

Aquatic Habitat Condition (RCE Index) – The spring 2025 site RCE scores ranged from 47% (SH08) to 84% (SH24) (Figure 5). Overall, the riparian and channel condition index remained relatively stable across the spring 2025 survey, with only minor changes observed at eight of the fifteen sites. Most variations were attributed to small increases in macrophyte cover or filamentous green algal abundance at sites SH02, SH08, SH10, SH14, SH15, and SH23. Site SH01 recorded an increase in the RCE category “Retention devices in stream”, driven by greater accumulations of woody debris, which resulted in an increased damming effect throughout the site. In contrast, site SH06 showed a slight decrease in RCE score due to a reduction in stream detritus. Consistent with the autumn survey, changes in RCE scores were generally minimal (<2%). However, site SH14 returned to pre-autumn RCE levels and exhibited the largest change overall (3%), primarily due to a substantial reduction in macrophyte cover.

Aquatic Macroinvertebrate Diversity – A total of 67 macroinvertebrate taxa were recorded across the 16 survey sites for the spring 2025 survey. Upstream Wilpinjong Creek site SH15 recorded the lowest site diversity with 11 taxa and downstream Goulburn River site SH23 recorded its highest number to date (over five surveys) with 36 taxa (Figure 7). Each of the downstream catchment sites recorded taxa diversities above the SWMP trigger values (Table 1), and SH10 was the only site to record a diversity value below its pre-mining mean value in spring 2025. Murdering Creek site recorded its lowest diversity to date (14 taxa), comprised mostly of short-lived taxa (mosquitoes), or taxa capable of colonising temporary pools (beetles) or withstanding dry periods (microcrustaceans).

Pollution Tolerance SIGNAL-2 Scores – The spring 2025 SIGNAL-2 values ranged between 2.67 at SH22 and 4.52 at SH24 (Figure 9), which were each of the sites respective lowest and highest SIGNAL-2 values to date. The SIGNAL-2 scores at SH02, SH06 and SH17 were all above their established trigger values (Table 1). Moolarben Creek site SH10 was the only long-term monitoring site to record a SIGNAL-2 value (2.92) below its pre-mining mean value (3.16), and the overall long-term mean site SIGNAL-2 value for spring 2025 (3.72 ± 0.50) showed a minor improvement compared to the autumn survey, owing mostly to improved SIGNAL-2 values recorded at sites across all catchments.

Trends

Recent seasonal Annual Review Stream Health monitoring reports have documented the shifting weather patterns over the previous five years. While 2020 saw a recovery from severe drought conditions, the 2021 and 2022 sample year recorded increasing frequency of rainfall events, culminating in record precipitation in 2022. The 2023 sample year was characterised by an increasing

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influence of dry weather patterns and declining rainfall totals on a month-to-month basis, which contributed to well below average total for the year (511mm). Most of the smaller catchment sites in Bora Creek, Murragamba Creek, Eastern Creek, Wilpinjong Creek and the upper Moolarben Creek had dried up or contained water among isolated refuge pools in spring. Whilst the 2024 surveys recorded more regular, above average rainfalls, weather patterns in 2025 saw an increasing duration of dry weather periods interrupted by brief, low magnitude shower events. The overall rainfall in 2025 was below average (591mm) with a trend of declining rainfall over the course of the year, and while most of the smaller upper catchment and ephemeral sites contained surface water in isolated refuge pools during seasonal survey periods, they would have likely only been replenished over the days to weeks prior to sampling for both the autumn and spring 2025 surveys.

Differences in RCE values among sub-catchments within the study area largely reflect surrounding land use, including whether catchments are currently or historically agricultural or remain predominantly forested. Individual site, riparian, channel and aquatic habitat conditions are influenced by prevailing weather and climatic conditions, particularly significant rainfall events or prolonged dry periods. RCE values across the study sites have remained generally consistent over the past five years.

The site macroinvertebrate taxa diversity results have maintained variability over the past five years, particularly so for the smaller ephemeral sites where pool water levels and size dictate water quality and habitat availability. Whereas the larger catchment sites in the Goulburn River have displayed the lowest variability in response to fluctuating environmental parameters, smaller upper catchment and ephemeral sites in Moolarben Creek and Wilpinjong Creek have generally shown the greatest improvements following periods of sustained wet weather.

Former Annual Review Summary stream health reports highlighted the trend of low SIGNAL-2 results recorded for the peak drought period in 2019. This was followed by general improved SIGNAL-2 results for most sites the in 2021 and 2022 and subsequent declines over more recent survey periods.

There were no indications of MCO mine-related impacts to stream health or aquatic habitat conditions in 2025, with differences between sites generally relating to changes to the prevailing climatic conditions and its impact on the study area aquatic and riparian habitat attributes.

7.3.4 CHANNEL STABILITY MONITORING

The channel stability monitoring program occurred between 7th October and 10th December 2025 at locations in **Appendix 2**. Monitoring involved visual and written observational surveys of erosive and depositional features, cross sections at strategic locations and photographic records.

Monitoring Results

Bora Creek channel stability monitoring results are comparable with previous monitoring. Variance in vegetation coverage along Bora creek, improving at one site, and decreasing at another, has slightly improved the average activity rating. One site has been upgraded from ‘Stable to ‘Very Stable ’, due to a increase in the score for the ‘Vegetation on D/L Floor’, and also an improved score for the ‘Shape of X-Section’

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Moolarben Creek channel stability monitoring trend is considered comparable to the results previously recorded. Lower scores in vegetation coverage was noted at eight assessment locations along Moolarben creek, with only one site recording an increase. In summary, one site has improved to 'Very Stable', two sites have been downgraded to 'Stable' and four sites have been downgraded to 'Potentially Stabilising'. It is also noted that two sites have been downgraded to 'Active'.

These downgrades have led to an overall decrease in the Average activity rating for Moolarben creek – to 'Potentially Stabilising'.

Murrumbidgee Creek channel stability monitoring trend is considered comparable to the results previously recorded. Minor improvements to activity scores for one site along Murrumbidgee Creek, along with minor downgrades at two sites and have resulted in a similar average activity rating compared to 2024. One site has had its status improved from 'Stable' to 'Very stable', whilst one site has had its status downgraded from 'Stable' to 'Potentially Stabilising'.

Wilpinjong Creek channel stability monitoring results trend is considered comparable to the results previously recorded. Some continued decrease in vegetation coverage was noted at five assessment locations along Wilpinjong creek, either on the creek walls or floor, whilst an improvement was only noted at one location. In four locations, the shape of the cross section score has continued to improve in the 2025 assessment. One site has improved to 'Very Stable', two sites have improved to 'Potentially stabilising', whilst One site decreased to 'Active', and another two downgraded to 'Potentially stabilising'.

"Eastern Creek" channel stability monitoring results identified a minor increase in 'Lateral Flow Regulation' recorded at One site, resulting in an improved status from 'Active' to 'Potentially Stabilising'. Whilst a minor decrease in 'Vegetation on DL Walls' was recorded at another site, no change in status resulted.

Trends

Channel stability within each creek continued to vary during the period. Locations vulnerable to erosion were characterised by steep banks, little vegetative cover and exposed dispersive subsoil, situated in historically agricultural zones (upper Moolarben Creek and Wilpinjong Creek). More stable locations were characterised by vegetated banks with low gradient slopes in more forested areas. Fluctuations in trends can be attributed to changing climatic conditions with consecutive above annual average rainfall throughout 2020 until 2023, with 2025 characterised by decreased rainfall totals on a month-to-month basis. Moolarben creek has been the only reporting program that has had a category change in the average activity rating in the previous 5 years.

7.3.5 EFFLUENT

During the period MCO continued to operate four sewerage treatment plants. Discharge quantity was within design limits during the period. Discharge quality is presented in **Appendix 3F**. On the 24th December 2025 EPL 12932 Variation was approved, which included a fifth effluent discharge point.

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7.4 GROUNDWATER

MCO monitors a network of piezometers comprising standpipe bores and vibrating wire piezometers (VWPs) in accordance with the Groundwater Management Plan (GWMP). The monitoring program includes monthly monitoring of standing groundwater level in standpipes, daily/monthly pressure levels (water level head) for VWPs, and monthly water quality from select standpipes. Groundwater level and quality trigger values have been established that when exceeded determine the need for investigation and possible response actions. Groundwater level triggers are assigned in the Alluvial and Triassic sandstone aquifers. The Permian coal measures does not include water level triggers as it is already extensively affected by past mining and is predicted to undergo further impact from ongoing mining and contains groundwater of generally poor quality. Water quality triggers are assigned in standpipes in major strata units.

The Environmental Assessments of the Moolarben Coal Mine predict impacts to groundwater due to MCOs operations. Response triggers for groundwater levels within Quaternary alluvium and Triassic Sandstone aquifers take account of the minimal impact considerations in the Aquifer Interference Policy (DPI, 2012). Monitoring frequency and response triggers have been implemented to identify trends that could potentially lead to a private bore being impacted in accordance with the Aquifer Interference Policy considerations (i.e. greater than 2 m drawdown).

Details of bores added to the GWMP network during 2025 are provided in **Table 27**.

Table 27 Bores added to the GWMP in 2025

Name	Type	Screen interval / VWP sensor level (m)	Lithology	Comment
PZ256A	Standpipe	6 - 40	Upper Triassic sediments	Replaced PZ128. Installed on 18/08/2025
PZ256C	Standpipe	67 - 71	Basal Triassic sediments	Replaced PZ128. Installed on 12/08/2025
PZ257A	Standpipe	58 - 62	Triassic sediments	Replaced PZ127. Installed on 4/08/2025
PZ257C	Standpipe	81 - 84	Basal Triassic sediments	Replaced PZ127. Installed on 4/08/2025
PZ258	Standpipe	9 - 12	Tertiary alluvium	Replaced PZ58a. Installed on 9/10/2025

7.4.1 GROUNDWATER LEVELS

During the Reporting Period MCO continued to observe mining impacts to groundwater levels for approved MCO open cut and underground operations and regional depressurisation due to neighbouring operations. There was average rainfall up to September 2025 and below average rainfall in the fourth quarter of the year. This contrasts with 2024 where there was generally above average rainfall. This is represented by the static to declining Cumulative Rainfall Departure (CRD) trend for 2025 compared to a rising trend for 2024. There was a three-year period from beginning of 2020 to end of 2022 of above average rainfall which is reflected by a rising CRD trend from 2020 to 2022. The rainfall data presented in **Figure 7-10** is SILO drill data (interpolated rainfall quantities) at the Moolarben mine site (Latitude -32.30; Longitude 149.80) for the timeframe of 2010 to the end of 2025.

MCOs mining operations during the period included mining in open-cuts OC2, OC3 and OC4, underground development in UG1 and UG4, and secondary extraction of panels LW406 and LW407 in

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UG4 (**Figure 4-1**). There is a long history of mining at the neighbouring Ulan Coal Open-cut and Underground Operations, and at the Wilpinjong Coal Open-cut Operations. Mining continued at both Operations during the period.

Standing water level/pressure elevations for all piezometers within hydrogeological units for the period are presented as time-series plots in **Appendix 3G**. Water levels of trigger piezometers with exceedance limits are also provided in **Appendix 3G**. Investigation triggers, along with monitored groundwater levels are presented in **Table 28**.

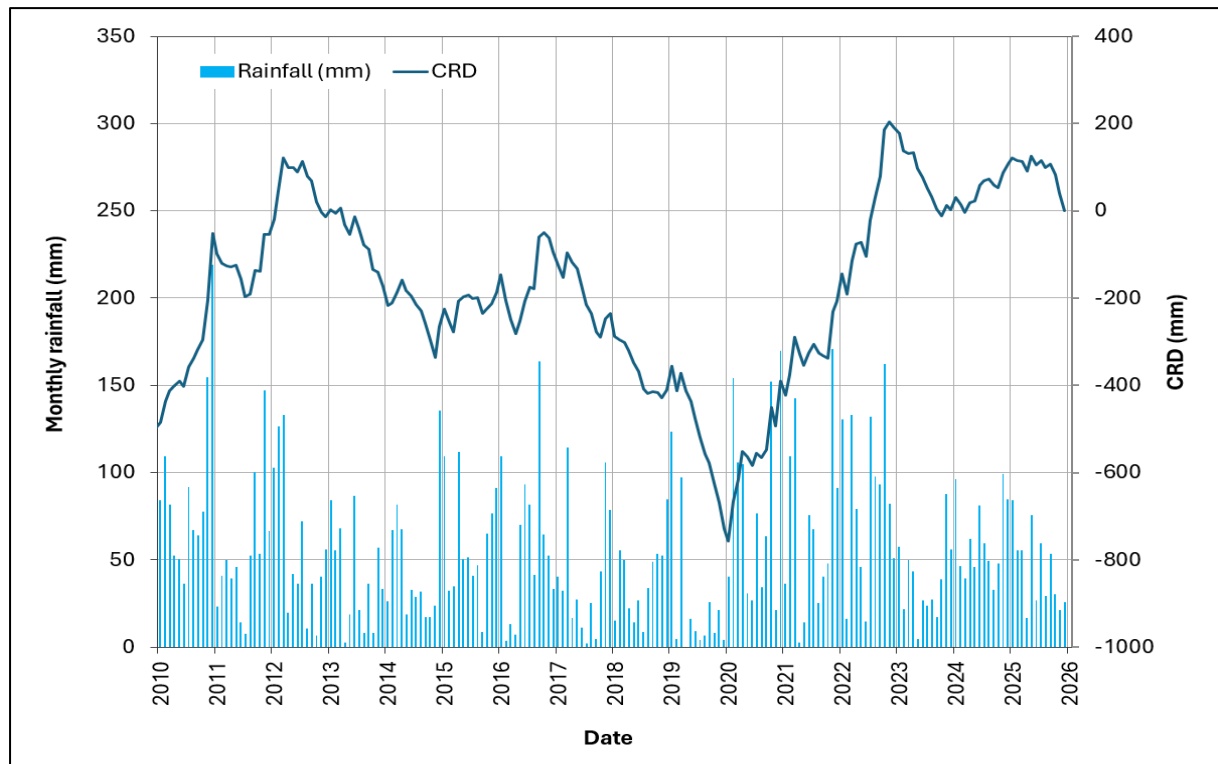


Figure 7-10 Rainfall and CRD (SILO interpolated data – Moolarben Coal Complex)

Groundwater levels in the Ulan coal seam and Permian coal measures are extensively affected by past mining and are predicted to undergo further impact from mining at Moolarben and neighbouring operations. During the period, the Ulan Seam levels were influenced by open cut and underground mining, neighbouring operations and in some cases rainfall recharge. The influence of UG1 and UG4 secondary extraction, progressive UG4 development and open cut operations continued over the period. All nested piezometer sites in the Permian sediments show greater drawdowns in deeper stratigraphic units (mainly monitoring from the Ulan seam) becoming progressively less up through the Permian overburden which implies downward leakage from depressurisation of the Ulan Seam.

The largest groundwater drawdowns in the Ulan seam during the period are observed at close proximity to the underground operations as they progress down dip (northeast), including development of the UG4 mains on the eastern side. This is evident in Ulan Seam piezometers PZ105A, and to a lesser degree in PZ192 and PZ193 which are located north of the current UG4 mining. PZ193, the closest piezometer to UG4 mining is located between panel LW406 and LW407 and provided an observed drawdown of 3.5 m until 23 August 2025 when it became inoperative due to mining. The piezometer PZ105A located approximately 2.3 km further to the north of PZ193 provided an observed

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drawdown of 5.4 m over the period. The Ulan coal seam continues to be depressurised from mining operations as according to modelled drawdown mining predictions. Groundwater drawdown is expected to continue to propagate in an east to north easterly direction over time.

Climatic influences on water levels have historically been observed in shallow Ulan Seam piezometers (in vicinity of subcrop) such as PZ003 and PZ217 located to the east of OC3, e.g., gradual rise of water level in 2020 to 2022 during period of above average rainfall followed by a decline in water level in 2023 when experienced below average rainfall. During the 2025 period, there was limited water level change in PZ003 and PZ217 and this may be due to the magnitude and duration of rainfall events which are comparatively less than the above average rainfall period from 2020 to 2022. Ulan Seam piezometer PZ111 which is located between MCO and Wilpinjong Open-cut Operations continued to decline in water level with a drawdown of 8 m over the period, likely influenced by both mining operations and climatic conditions. The depressurisation of the Ulan coal seam in this location is in accordance to the modelled cumulative drawdown predictions of Moolarben and Wipinjong mining operations. The Wilpinjong Open-cut is advancing to the north and is less than 1 km south of PZ111.

The Permian overburden over the period exhibited a range of responses in groundwater level depending on proximity to mining, strata interval monitored and location. Drawdown of the Permian overburden continued during the period in the vicinity of UG4 due to the extraction of LW406 and LW407 as observed in deeper overburden piezometers PZ101, PZ103, PZ105, PZ128 and PZ193. Following the cessation of UG1 mining in 2022 the groundwater heads of Permian piezometers PZ127, PZ186 and PZ189 in the vicinity of UG1 have been relatively steady, although nested piezometer PZ186 (piezos at 65 m and 86 m depth) have shown a slight decline during the 2025 period. This decline in groundwater head at PZ186 maybe associated with dewatering of the Wilpinjong Open-cut located over 3km to the southeast. Drawdown in the Permian overburden generally decreases with distance from the mining operations.

Water levels, particularly, in the shallow Permian overburden cover maybe influenced by rainfall recharge with rising levels or lack of recharge by declining levels. At UG1, the coal measures are depressurised locally due to mining activities, although rising groundwater pressures were recorded in piezometers PZ130 VWP 38.5m and PZ170 above UG1 during high rainfall events from mid to late 2022 associated with rising CRD trend. This was followed by a piezometric decline in 2023 which coincided with below average rainfall and a declining CRD trend. The groundwater levels in these piezometers have been relatively stable during the 2025 period. Similar trends have been observed southeast of OC4 in PZ106A, PZ112B and PZ137.

In some locations the piezometers in the upper Permian overburden exhibited stable pressures while deeper piezometers were observed to decline. This was observed in nested piezometer PZ103D (piezos at 31m, 55m and 85m depth) located in vicinity of LW407 and nested piezometer PZ105A (piezos at 28 and 80 m depth) which is located 2 km north of LW407. In some locations the decline in piezometric level has continued up to relatively shallow depths as the case of nested piezometer PZ186 with decline observed at 40, 65 and 86 m depth. Nested piezometer PZ186 is located east of UG1 and beneath Tertiary paleochannel sediments.

A stepped drawdown progression within the Permian overburden is evident in PZ193 VWP 80m near UG4 which coincides with the removal of each UG4 longwall panel up to present. Stepped drawdown

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behaviour is also evident in piezometers PZ186, PZ189 and possibly PZ40B near UG1 occurring from 2018 to mid 2022, with the timing of last step close to the time UG1 ceased operations.

The nested piezometer PZ238 (installed in February 2022) north of OC4 along Wilpinjong Creek shows a long term gradual decline in the top two shallow piezometers which include the alluvium piezometer at 11 m depth (1.25 m decline in 2025) and the Permian overburden piezometer at 25 m depth (3m decline in 2025). The cause for the declining piezometric trend in the shallow piezometers is potentially mining related (MCO and possibly Wilpinjong operations) as there appears to be no correlation to CRD trend. The deeper PZ238 piezometer at 50m depth in Permian sediments shows an erratic response with a rapid increase in piezometric level to near ground surface in first quarter 2025 and then a gradual decline for remainder of year by 5.8 m head. The cause for this behaviour is likely due to a malfunction with the piezometer.

Groundwater levels in GWMP Triassic sandstone piezometers remained relatively stable over the period with the exception of PZ105C and PZ192 VWP 68m. No Triassic water level triggers were exceeded during the period.

Standpipe piezometer PZ105C is located approximately 2.3 km north of UG4 panel 407 and historically has shown a subdued response to climatic conditions correlating to CRD trends. The piezometer is screened at a relatively shallow depth of 20 to 28 m depth. In the last year there has been a slight decline in the groundwater level by 0.6 m which roughly correlates with a flat to declining CRD trend over the same period.

Piezometer PZ192 VWP 68m is located at the northeastern corner of UG4 longwall panel LW408 and has historically shown a decline in groundwater level since it first became operational in July 2011. During the 2025 period the piezometer PZ192_68m experienced a rapid decline in head of 6.8 m between 21 and 30 August 2025 and then a further 1 m decline in head from 30 August to 30 September 2025. For the last quarter of 2025 the water level has been steady. The timing of this piezometric decline correlates with the start of mining the new UG4 longwall panel LW407. In PZ192_68m there has been a decline of about 5.7 m head from mid 2011 to January 2024 which is likely from mining activity. The deeper Triassic sandstone adjacent to longwall mining at the location of piezometer PZ192 is predicted by modelling to have a water level drawdown greater than 20m. The current overall decline in water level at PZ192 is in accordance with modelling predictions. At piezometer PZ192 VWP 68m there was previously a sharp decline of 15 m groundwater head in March to April 2024. The timing for this decline correlated with the drilling of two nearby dewatering bores into the Ulan Seam at M9, which would have depressurised the strata. The groundwater head recovered by early May 2024 presumably following the cement sealing of each of the dewatering bore annulus above the Ulan Seam.

Triassic Sandstone PZ127 VWP 43m has historically shown a gradual decline of about 2 m since 2008, although the piezometric level was relatively steady over the 2025 period. There is no perceivable correlation of decline in piezometric levels to climatic conditions. PZ127 VWP 43m is located above UG1 and may have been influenced by mining of UG1, OC3 and OC4.

In the Tertiary paleochannel sediments located northeast of UG1 the groundwater levels continued to decline. At PZ213, PZ214 and PZ188 there was a decline of 0.3 m to 0.5 m during the 2025 period. This decline in groundwater level is attributed to MCO mining activities as there is no correlation with

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rainfall patterns and CRD trend. The groundwater levels in PZ213, PZ214 and PZ188 have exceeded the trigger level by 1.5 m and 0.9 m and 0.1 m respectively by December 2025. An investigation by a third party was undertaken for PZ213 in accordance with the GWMP Trigger Action Response Plan (TARP) following the exceedance in mid-2023. The PZ214 and PZ188 trigger levels were exceeded in April 2024 and July 2025 respectively and have similar outcomes as PZ213 in accordance with the TARP.

Tertiary paleochannel piezometer PZ186A historically has shown a stepped progression in water level decline up to mid-2022, which is likely attributed to mining of longwall panels in UG1. Since mid 2022 the water levels in PZ186A have been relatively steady.

Tertiary paleochannel piezometer PZ203 long-term groundwater trend shows a subdued correlation with climatic conditions. During the 2025 period there was observed a decline of 0.7 m which may correlate with a flat to declining CRD trend in 2025. This piezometer is located 1.8 km east of OC4 and 1.7 km north of Wilpinjong Open-cut which is advancing closer to PZ203. The mining of OC4 and Wilpinjong Open-cut may have contributed to decline in water levels during the 2024-2025 period, although further monitoring will provide greater certainty.

Water levels of Tertiary sediments piezometer PZ058A were measured up to March 2025 due to obstruction in standpipe by vegetation roots. The groundwater levels have historically shown a subdued response to climatic conditions. The last reading in March 2025 was 468.1 mAHD. The piezometer was replaced in the fourth quarter of 2025 by standpipe piezometer PZ258 with a reading of 468.6 mAHD measured in October to December 2025. Tertiary paleochannel piezometers P184 and P211 were decommissioned at the end of 2022 and this is due to long-term dry conditions observed during monitoring.

The Marrangaroo Conglomerate piezometer PZ055 located west of OC1 has stable groundwater levels over the long-term. Marrangaroo Conglomerate piezometer PZ102A showed affects of dewatering, although monitoring stopped in mid-2022. This piezometer is located close to the Ulan operations and adjacent to UG4 Longwall panel LW408. Piezometer PZ102A showed a steady decline since 2021, departing from the CRD trend which coincided with the initially mining of UG4.

Groundwater levels in the Ulan Granite at PZ044 historically have shown subdued delayed responses to rainfall events. Since May 2024 the water level has been relatively stable. The responses of groundwater levels in the piezometer network will continue to be monitored going forward.

7.4.2 GROUNDWATER QUALITY

Groundwater quality monitoring is undertaken at standpipe piezometers in accordance with the GWMP. The monitoring network covers major hydrogeological units and are broadly distributed across the project area. Parameters include physical parameters, major cations and anions, dissolved metals and nutrients.

Site specific triggers for acidity (pH) and electrical conductivity (EC) have been developed for Alluvial and Triassic aquifers across the Moolarben Coal Complex. Also, site specific pH and EC triggers have been developed for piezometers within lower permeability hydrogeological units such as the Permian Overburden typified by poorer quality water with lower beneficial rating and the deeper Marrangaroo Conglomerate and Ulan Granite which have limited water source potential in the area.

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A review of the groundwater quality performance is provided in **Table 28**. Water quality results from all piezometers are provided in tabulated format and EC/pH of trigger piezometers are provided on time series plots in **Appendix 3G**.

The pH and EC of standpipe trigger piezometers in alluvium (PZ188) and Triassic sedimentary (PZ101C, PZ103C and PZ105C) aquifers for the 2025 period was consistent with historical results with no trigger exceedances. No water quality results were obtained from the alluvium trigger piezometer PZ058A (or replacement piezometer PZ258) during the 2025 period. PZ058A was not sampled due to tree roots obstructing sampling equipment.

The EC and pH of Permian Overburden trigger piezometers PZ101B and PZ109 are within the range of historic measurements and below trigger levels. Water quality of the Ulan Granite in trigger piezometer PZ044 was consistent within the range of historic levels with no trigger exceedance.

The EC of the Marrangaroo Conglomerate in PZ055 have shown an increasing trend over time. The EC has been higher than the trigger level of 2756 $\mu\text{S}/\text{cm}$ on occasions recently in 2025, although not over a six month period from April to October in 2025 to necessitate an investigation according to the GWMP. The pH of the Marrangaroo Conglomerate in PZ055 is consistent within the range of historic levels with no trigger exceedance.

7.4.3 PRIVATE GROUNDWATER USERS

MCO had negligible impact on private groundwater users during the Reporting Period. No compensatory water supply was required or supplied during the Reporting Period.

7.4.4 POTENTIAL IMPACTS TO THE DRIP

The Drip is located over 3.5 km from current MCC mining operations. There is no evidence indicating that The Drip is being impacted by the MCC.

7.4.5 ACTIONS FOR NEXT REPORTING PERIOD

During the next Reporting Period the following actions are proposed:

- Revision of the GWMP, which includes:
 - the inclusion of additional piezometers added to the network, particularly within alluvial paleochannel sediments and Triassic sediments associated with the new Open Cut 3 extension (when approved);
 - the inclusion of additional Triassic sediments piezometers with assigned water level triggers in the northern area of UG4; and
 - the removal of water level triggers for Tertiary paleochannel piezometers PZ212, PZ214 and PZ188.
- Review of water level trigger for standpipe piezometer PZ257 which replaces the decommissioned VWP PZ129_35m.
- Continue sampling standpipe piezometer PZ258 (replacement of PZ58a) to determine new EC and pH trigger levels in due course where applicable.

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Table 28 Water Levels – Triassic, Alluvium and Paleochannel Bore Performance

Location	Investigation Trigger Level (mAHD)	Minimum 2025 Groundwater Level/Pressure (mAHD)	Trend/ Key Management Implications	Implemented/proposed Management Action
Alluvium, Paleochannel and Marrangaroo Bores				
PZ55	418.1	423.5	Average rainfall for most of 2025 except below average rainfall in the last three months of the year which resulted in a net decreasing CRD. Most of 2024 experienced above average rainfall. Piezometers in the vicinity of mining operations exhibited stable or declining groundwater levels during the period. Groundwater level reductions continued at Tertiary paleochannel piezometers PZ213, PZ214, and PZ188 located northeast of UG1 with a maximum reduction of 0.3 to 0.5 m observed since last year attributed to MCO mining activities. PZ203 level declined by 0.7 m in 2025 which may be due to mining depressurisation possibly in combination with flat to declining CRD trend in 2025. In previous years PZ203 has shown a subdued response to rainfall trends. PZ058a has been decommissioned and replaced by new standpipe piezometer PZ258 in the fourth quarter of 2025. Overall groundwater level trends are generally consistent with groundwater model predictions, with actual drawdown occurring earlier than modelled and observed drawdown in Tertiary paleochannel above model predictions in close proximity to mining operations. Groundwater level/pressure monitoring indicate MCO had negligible impact on private groundwater users. Groundwater monitoring results and level trends are in Appendix 3G.	Continue monitoring program. A third-party investigation was undertaken for the exceedance of PZ213 trigger level in accordance with TARP in the GWMP. Piezometers PZ214 and PZ188 exceeded their trigger levels during 2024 and 2025 respectively. The cause of exceedance in PZ214 and PZ188 is considered similar as for PZ213. MCO are reviewing trigger levels of PZ213, PZ214 and PZ188, and their inclusion going forward based on latest groundwater modelling and consideration of saturated depth of paleochannel sediments. MCO plan to provide a revised GWMP in 2026 in accordance with Schedule 5 condition 5 and Schedule 6 condition 5 of PA05_0117 and PA08_0135 respectively. Monitoring results to be included in the next periodic model validation and recalibration where required. During the Reporting Period MCO continued to maintain the groundwater monitoring network.
PZ058A	466.4	467.4		
PZ188	409.4	409.9		
PZ203	394.4	401.2		
PZ213	409.7	408.0		
PZ214	409.8	408.8		

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Location	Investigation Trigger Level (mAHD)	Minimum 2025 Groundwater Level/Pressure (mAHD)	Trend/ Key Management Implications	Implemented/proposed Management Action
Triassic Bores				
PZ101C	376.8	379.5	Average rainfall for most of 2025 except below average rainfall in the last three months of the year which resulted in a net decreasing CRD. Most of 2024 experienced above average rainfall. Groundwater levels in Triassic bores PZ101C and PZ129 VWP 35m remained stable with overall trends consistent with model predictions and climatic data. Piezometer PZ105C has historically shown a subdued response to climatic conditions correlating to CRD trends. During the 2025 period the water level declined by 0.6 m which may reflect the flat to declining CRD trend during 2025. This piezometer will be observed closely going forward to confirm if water levels are influenced by mining depressurisation. Groundwater level/pressure monitoring indicate that MCO had negligible impact on private groundwater users. Groundwater monitoring results and level trends are in Appendix 3G.	Continue monitoring program. PZ129_35 m (35m depth) has been decommissioned and is replaced with standpipe piezometer PZ257A which is screened from 58 to 62 m depth. Initial water level measurements of PZ257A between October – December 2025 are about 377.1 mAHD, which is lower than the last readings and investigation trigger of PZ129_35m. MCO will review the establishment of a trigger level for PZ257A. MCO plan to provide a revised GWMP in 2026 in accordance with Schedule 5 condition 5 and Schedule 6 condition 5 of PA05_0117 and PA08_0135 respectively. Monitoring results to be included in the next periodic model validation and recalibration where required. During the Reporting Period MCO continued to maintain the groundwater monitoring network.
PZ105C	367.4	374.2		
PZ129 (VWP-35m)	385.7 (dry)	389.92		

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Table 29 Water Quality Performance

Location	Lithology	Investigation Trigger Level(s)		2025 Performance	Trend/ Key Management Implications	Implemented/proposed Management Action
		pH	EC (µs/cm)			
PZ044	Ulan Granite	5.7 – 7.2	3000	PZ044 water quality and PZ055 pH were consistent with historic monitoring results. PZ055 shows an increasing trend in EC to above trigger level, although no investigation was triggered with exceedance over six month period.	Water quality for the period was generally consistent with previous monitoring results with some influence from changes in the rainfall recharge rate, i.e. dilution or concentration effects. Groundwater quality trends will continue to be monitored. Water quality sampling of PZ258 has commenced and may require the adoption of new EC and pH triggers. Water quality results from all piezometers are provided in Appendix 3G .	Continue monitoring program. MCO will review, and if necessary, revise, the GWMP in accordance with Schedule 5 condition 5 and Schedule 6 condition 5 of PA05_0117 and PA08_0135 respectively. During the Reporting Period MCO continued to maintain the groundwater monitoring network.
PZ055	Indurated Conglomerate	5.1 – 6.3	2756			
PZ058a	Tertiary Aged Sediment	2.8 – 4.7	14765			
PZ188	Tertiary Paleochannel	4.7 – 6.9	394	PZ058A has tree roots entering the piezometer screen section which obstructed water sampling equipment. No water quality measurements were taken in PZ058A during 2025. PZ058a has been decommissioned and replaced by new standpipe piezometer PZ258 in the fourth quarter of 2025. PZ188 water quality was consistent with historic monitoring results. No investigation was triggered.		
PZ101C	Lower Triassic	6.1 – 7.7	810	Triassic water quality was consistent with historic monitoring results. No investigation was triggered.		
PZ103C	Lower Triassic	5.2 – 6.8	448			
PZ105C	Lower Triassic	5.3 – 7.4	319			
PZ101B	Permian OB	6.2 – 7.7	928	Permian Coal measures water quality for the period is consistent with previous monitoring results. No investigation was triggered.		
PZ109	Permian OB	6.3 – 8.4	1145			

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8.0 MINE SUBSIDENCE

MCO undertakes secondary extraction in accordance with the UG1 Longwalls (LW) 101 to 105 Extraction Plan (2020) (the UG1 Extraction Plan) and UG4 Longwalls 401 to 408 Extraction Plan (2022) (the UG4 Extraction Plan). The UG1 Extraction Plan and associated sub-plans were prepared with input from experienced and qualified experts to satisfy Condition 5, Schedule 4 of PA 08_0135. The UG4 Extraction Plan and associated sub-plans were prepared with input from experienced and qualified experts to satisfy Condition 77(a), Schedule 3 of PA 05_0117.

Extraction during the annual 2025 Reporting Period from 1 January to 31 December 2025 included extraction of the full length of Longwall 406 (2,200 m void length) and Longwall 405 to Chainage 291 m (1,984 m extracted void length). The combined total extracted length during the 2025 Reporting Period was 4,184 m.

During the Reporting Period MCO continued to conduct monitoring of subsidence lines, flora and fauna habitats, cliffs, landscape features, and built features for LW404 to LW405. Monitoring of subsidence lines, surface water, groundwater, inflows and outflows continued for all panels. Built feature monitoring triggers were not exceeded in the period. Post mining inspections were carried out for flora and fauna above LW404 and LW405.

Subsidence monitoring included the 3D ground monitoring N, S & R lines. Subsidence impacts during the period were below predictions as shown in **Table 30**.

The N Line is a 3D ground monitoring line located along the centreline of LW406 at the longwall finishing end. The base survey was carried out on the 07 July 2022 prior to LW401. During 2025, the monitoring line was surveyed once on 20 August 2025. The survey monitoring results represent the extraction of LW401 to LW406.

The S Line is a 3D ground monitoring line that is orientated transverse to the longwalls. LW406 and 407 mined directly beneath the monitoring line during 2025. The base survey was carried out on the 10 July 2022 prior to the commencement of LW401. During 2025 the monitoring line was surveyed once, on 16 August 2025 following the completion of LW406.

The R Line is a 3D ground monitoring line that follows the Ulan Road to the west of the UG4 longwalls. The base survey was carried out on the 29 June 2022 prior to the commencement of LW401. The monitoring line was subsequently surveyed once during 2025, on 8 August 2025 following the completion of LW406.

Table 30 Comparison of maximum observed and predicted vertical subsidence, tilt & strain for the N, S & R Line

Survey Line	Type	Maximum vertical subsidence (mm)	Maximum tilt (mm/m)	Maximum tensile strain (mm/m)	Maximum compressive strain (mm/m)
N	Measured	1670	40	7.5	11
	Predicted	1800	65	<30*	<30*
S	Measured	1409	29	9.3	10
	Predicted	1850	30	10*	8*
R	Measured	14	1.2	0.9	0.9
	Predicted	<20	<0.5	<0.5*	<0.5*

Notes * denotes that the values represent the conventional strains based on the predicted curvatures multiplied by a factor of 10.

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The maximum measured vertical subsidence, tilt and strains during 2025 is overall similar or less than the maximum predicted values. The greater than predicted compressive strain is not significant at higher values of strain and shallow mining conditions. The greater than predicted compressive strain has not resulted in exceedance of performance measures or TARP triggers. It is considered that the ground movements measured during 2025 are consistent with the predictions provided in the UG4 LW401 to LW408 Subsidence Technical Report (Report No. MSEC1165), which supported the Extraction Plans for LW401 to LW408. A summary of performance against the relevant subsidence performance indicators and subsidence performance measures (i.e. the subsidence performance assessment), detailed in the UG4 Extraction Plan, and Condition 73, Schedule 4 of Project Approval (05_0117) is provided in **Table 31**.

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Table 31 Assessment of Subsidence Performance Indicators Measures for UG4 – Natural, Heritage and Built Features

Subsidence Impact Performance Measure		Subsidence Impact Performance Indicator	Indicators Exceeded?	Assessment of Subsidence Impact Performance Measures	Performance Measures Exceeded?
Natural and Heritage Features:					
The Drip and Goulburn River Gorge	Nil impact or environmental consequences	Unpredicted loss of water supply to the Drip during LW401 to 408.	No	The drip and Goulburn River Gorge are located outside the extents of LW406 and 407 at the end of 2025, at distances greater than 2.5km. It is unlikely that this site experienced measurable ground movements due to the mining. No impacts greater than predicted recorded.	No
Goulburn River and the bed of the Goulburn River	Negligible impact or environmental consequences. Remain outside the zone of recorded subsidence damage for longwall mining	- Unpredicted impacts on Goulburn River (cracking and or noticeable changes in erosion or pools) during LW401 to 408. - Performance indicators for relevant groundwater monitoring sites north of LW408 will be established prior to mining LW405.	No	Goulburn River is located outside the extents of LW406 and 407 at the end of 2025, at distances greater than 400m. It is unlikely that the Goulburn River experienced measurable ground movements due to the mining.	No
Cliff Line 3	Minimise subsidence damage	Cliff Line 3 impacts due to LW401-408 are less than 1.9m vertical conventional subsidence and 60mm/m conventional tilt.	No	Cliff C3 is located outside the mined extents of LW406 and 407 at the end of 2025, at distances greater than 450m. Negligible ground movements were measured. No observed impacted due to the extraction of LW406 and 407.	No
Goulburn River National Park minor cliffs	N/A	Negligible impact due to longwall mining for Minor Cliffs in Goulburn River National Park.	No	Nearest known minor cliff CL7 is located outside the mined extents of LW406 and 407 at the end of 2025, at distances greater than 160m. No observed impacts due to the extraction of LW406 and 407.	No
Aboriginal heritage sites 264, 282, 283, 286 and 287	Reduce the likelihood of subsidence damage to low.	Aboriginal heritage sites S1MC264, 282, 283, 286 and 287 are located to the north of the Study Area and the likelihood of impacts to these features is considered to be very low. Therefore, no performance indicators for S1MC264, 282, 283,	No	No observed impacts due to the extraction of LW406 and 407.	No

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Subsidence Impact Performance Measure		Subsidence Impact Performance Indicator	Indicators Exceeded?	Assessment of Subsidence Impact Performance Measures	Performance Measures Exceeded?
		286 and 287 have been developed for LW401-408.			
Aboriginal Heritage Site 280	Reduce the likelihood of subsidence damage to moderate.	Revised subsidence likelihood reduced to moderate.	No	No observed impacts due to the extraction of LW406 and 407. Management plan successfully implemented for Aboriginal Heritage Site 280 for the extraction of LW402 and 403.	No
Historic heritage sites	No greater subsidence impact or environmental consequences than predicted in the EA	There are no historic heritage sites within the Study Area or within the vicinity of the Study Area. Therefore, no performance indicators have been developed for LW401- 408.	-	Not applicable. There are no historic heritage sites within the Study Area or within the vicinity of the Study Area	-
First workings under an approved Extraction Plan beneath any feature where performance measures in this table require negligible impact, negligible consequence or negligible loss	To remain long-term stable and non-subsiding.	First workings remain long-term stable and non-subsiding.	No	First workings have been designed to meet the requirements of Condition 79, Schedule 3 of Project Approval (05_0117). First workings approvals were granted on the 24 March 2016, 4 May 2016, 31 August 2018 and 8 July 2019 by the Division of Resources and Geosciences, in accordance with the requirements under Condition 7, Schedule 4 of PA08_0135 and Condition 79 Schedule 3 of PA05_0117.	No
Second workings	To be carried out only in accordance with an approved Extraction Plan	Not applicable (NA) subsidence impact performance indicators have been developed for this performance measure.	NA	Second workings have been carried out in LW406 and 407 in accordance with the approved <i>Longwalls 401-408 Extraction Plan</i> during the assessment period.	No
Key Public Infrastructure:					
Gulgong-Sandy Hollow Railway	Always safe and serviceable.	The performance indicators proposed to ensure that the performance measures for the Sandy	No	No observed or reported defects, deformation or displacement of joints in culverts due to mining LW406 and 407.	No

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Subsidence Impact Performance Measure		Subsidence Impact Performance Indicator	Indicators Exceeded?	Assessment of Subsidence Impact Performance Measures	Performance Measures Exceeded?
Line	Damage that does not affect safety or serviceability must be fully repairable, and must be fully repaired	Hollow Gulgong Railway in relation to subsidence induced far field movements. - No defects or deformation of the rail track and associated infrastructure due to UG4 mining; and - No visual displacement at joints or cracks in culverts due to UG4 mining.			
Wollar-Wellington 330kV Transmission Line		- The Wollar-Wellington 330kV transmission line is located 725m from LW401 and the likelihood of impacts to the towers is considered to be very low. - Therefore, no performance indicators have been developed for the Wollar-Wellington 330kV transmission line.	No	No observed or reported impacts due to the extraction of LW406 and 407. No management measures have been developed. In consultation with TransGrid no BFMP was required due to no predicted impacts of the Wollar-Wellington 330kV transmission line.	No
Other Infrastructure:					
Roads: Ulan Road Ulan Road Bridge over the Sandy-Hollow Rail Line Ulan Road Bridge over the Goulburn River	Safe, serviceable and repairable unless the owner agrees otherwise in writing.	- No joint displacement or cracking or other defects of the drainage structure (e.g. pipes/culverts) in excess of 5 mm (when compared against baseline condition) due to UG4 mining. - The Ulan Road Bridge over the Sandy-Hollow Rail Line and the Ulan Road Bridge over the Goulburn River are unlikely to experience subsidence related movements. Therefore, no performance indicators have been developed for the Ulan Road Bridge over the Sandy-Hollow Rail Line and the Ulan Road Bridge over the Goulburn River.	No	Ulan Road and bridges are located outside the Longwalls 401-408 Study Area, but may be subject to far-field horizontal movements and non-conventional ground movements. No observed or reported impacts due to the extraction of LW406 and 407.	No
Other built features and improvements, including fences: Telstra optical fibre	Serviceability should be maintained wherever practicable. Loss of serviceability must be fully compensated.	The performance indicators proposed to ensure that the performance measures for the optical fibre, copper cables and tower are achieved in relation to subsidence induced far field movements, include:	No	The telecommunication cable, optical fibre cable and tower are located outside the Longwalls 401-408 Study Area, but may be subject to far-field horizontal movements and non-conventional ground movements.	No

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telecommunicati on cable Telstra copper telecommunicati on cable Telstra telecommunicati on tower	Damage must be fully repairable, and must be fully repaired or else replaced or fully compensated.	- Negligible transmission loss from mine subsidence impacts; - Negligible impacts on structural integrity of the cable lines from mine subsidence; and - Negligible impacts on structural integrity of the communications tower from mine subsidence.		No observed or reported impacts due to the extraction of LW406 and 407.	
Other built features and improvements, including fences: Essential Energy 22kV line and power poles to telecommunicati on tower	Serviceability should be maintained wherever practicable. Loss of serviceability must be fully compensated. Damage must be fully repairable, and must be fully repaired or else replaced or fully compensated.	The performance indicators proposed to ensure that the performance measures are achieved in relation to subsidence induced far field movements, include: The structural integrity of the 22kV powerline (power poles and transmission lines) is maintained.	No	The Essential Energy 22kV line and power poles are located outside the Longwalls 401-408 Study Area, but may be subject to far-field horizontal movements and non-conventional ground movements. No observed or reported impacts due to the extraction of LW406 and 407.	No
Other built features and improvements, including fences UCMPL Millers Dam Compound and associated infrastructure, Bridge, Bore and Monitoring Piezometers	Serviceability should be maintained wherever practicable. Loss of serviceability must be fully compensated. Damage must be fully repairable, and must be fully repaired or else replaced or fully compensated.	The performance indicators proposed to ensure that the performance measures for UCMPL infrastructure within 400m of Longwalls 401-408 in relation to subsidence induced far field movements, include: Subsidence monitoring indicates subsidence is consistent with approved impacts.	No	The UCMPL Millers Dam Compound and associated infrastructure are located outside the Longwalls 401-408 Study Area, but may be subject to far-field horizontal movements and non-conventional ground movements. No observed or reported impacts due to the extraction of LW406 and 407.	No
Other built features and improvements, including fences	Serviceability should be maintained wherever practicable. Loss of	The performance indicators proposed to ensure that the performance measures for Dronvisa Quarry achieved in relation to subsidence, include:	No	Dronvisa Quarry is located above the finishing end of LW403, LW404 and 405. No observed or reported impacts due to the extraction of LW406 and 407.	No

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Subsidence Impact Performance Measure		Subsidence Impact Performance Indicator	Indicators Exceeded?	Assessment of Subsidence Impact Performance Measures	Performance Measures Exceeded?
<i>Dronvisa Quarry</i>	<i>serviceability must be fully compensated. Damage must be fully repairable, and must be fully repaired or else replaced or fully compensated.</i>	- Subsidence monitoring indicates subsidence is consistent with approved impacts. - Compensation Agreement between MCO and Dronvisa in place for predicted impacts to Dronvisa infrastructure serviceability and damage to the Quarry.			
Public Safety:					
<i>Public safety</i>	<i>Negligible additional risk</i>	MCO will assess Longwalls 401- 408 against the following public safety performance indicator in the event that any hazard to the general public arising from subsidence impacts becomes evident: No more than negligible additional risk to public safety.	No	Public safety is considered in the LW401 to 408 PSMP. No more than negligible additional risk to public safety has occurred during the assessment period, as a result of LW406 and 407. There were no incidents regarding public safety as a result of LW406 and 407 during the assessment period.	No

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8.1.1 ACTIONS FOR NEXT REPORTING PERIOD

Activities in the 2026 Reporting Period include monitoring in accordance with approved subsidence management plans and remediation works, (e.g. tracks) as required.

8.1.2 SUBSIDENCE REMEDIATION

Minor subsidence management actions were required to be undertaken as a result of LW406 and LW407 extraction during the Reporting Period. These included maintenance of MCO managed access tracks following subsidence.

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9.0 REHABILITATION

MCO manages rehabilitation in accordance with the RMP and Forward Program (FWP). The RMP and FWP were developed to meet the requirements of Mining Lease conditions at the MCC.

The MCC RMP describes the management of rehabilitation at the MCC for Stage 1 and Stage 2. The FWP describes the proposed Stage 1 and Stage 2 mining and rehabilitation activities for the period 1 January 2025 to 31 December 2027 (the FWP term). A description of the proposed rehabilitation activities during the term is also provided in the FWP. Planned mining and rehabilitation progression are shown on FWP Plans 2A, 2B and 2C. The FWP and RMP are available on the MCO website (www.yancoal.com.au/our-sites/moolarben).

9.1 MINING AND REHABILITATION STATUS

At the end of December 2025 MCO had a Total Mine Footprint of 2,421.20ha, being 162.27ha less than forecast in the FWP. The reduction in disturbance resulted from changes to mine planning. The area under rehabilitation preparation and active rehabilitation activities increased to 505.16ha.

The mining and rehabilitation status is presented in **Table 32**. The land preparation activities undertaken during the period and proposed areas for rehabilitation in the next Reporting Period are discussed in **Section 9.5** and **Section 9.6** and presented in **Figure 4-1**.

During the Reporting Period MCO continued to undertake monitoring and maintenance activities within the existing rehabilitated areas. This included the management of spontaneous combustion areas, erosion control, supplementary seeding of areas with limited cover, infill planting with tubestock, weed management and feral animal control activities.

Table 32 Mining and Rehabilitation Status

Mine Area Type	Previous Reporting Period (2024)	This Reporting Period (2025)	Next Reporting Period (2026)
Total Mine Footprint	2302.5	2421.20	2606.77
Total Active Disturbance	1796.9	1867.74	1991.83
Land being Prepared for Rehabilitation	89.45	85.61	85.62
Land under active Rehabilitation	416.15	467.85	529.32
Completed Rehabilitation*	0	0	0

Notes: *The NSW Resources Regulator has determined in writing that the mining area has achieved the approved rehabilitation objectives and approved rehabilitation completion criteria and final landform and rehabilitation plan following the submission of Form: ESF2 Rehabilitation completion and/or review of rehabilitation cost estimate and/or notification of mine or petroleum site closure.

9.2 VEGETATION CLEARANCE AND TOPSOIL STRIPPING

Vegetation clearance within the OC3, OC4 and infrastructure areas during the Reporting Period (**Figure 4-1**) was undertaken in accordance with the Vegetation Clearance Protocol and GDPs. Stripped topsoil was placed in temporary stockpiles for future use. Vegetation salvaged was either mulched or retained for use as habitat features within future rehabilitation areas.

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9.3 SEED COLLECTION

Native seed collection continued throughout the period with seed harvested from MCO owned lands. All activities were undertaken in accordance with the requirements of the Florabank Guidelines (2000). As of December 2025, the MCO seed bank contained over 350 kgs of native seed for use in rehabilitation activities across the MCC.

9.4 REHABILITATION MONITORING

MCO undertakes a comprehensive monitoring program of rehabilitation areas in accordance with the RMP. The program includes monitoring for initial establishment, long term floristic composition, structure and ecological functioning, habitat and koala feed tree presence, fauna, and a comprehensive rehabilitation walkover. Monitoring is conducted in spring, and results assessed against preliminary rehabilitation completion criteria.

The rehabilitation monitoring program was reviewed and updated in 2024 to incorporate recommendations made by Eco Logical Australia. Changes included the removal of Ecosystem Functional Analysis and visual transect monitoring to remove repetition of data that is already being collected through detailed floristic monitoring. Monitoring has also been consolidated to be conducted during the spring season to improve data integrity.

9.4.1 INITIAL ESTABLISHMENT AND LONG-TERM MONITORING

Initial Establishment Monitoring (IEM) is a rapid style assessment of young (≤ 3 years old) rehabilitated areas, principally to determine germination success, landform stability and early threats to the rehabilitation. The more detailed Long Term Monitoring (LTM) is applied in older rehabilitation areas (≥ 4 years old) to evaluate progress of the rehabilitation towards fulfilling agreed or proposed completion criteria, and ultimately the targeted post-mining land use.

Rehabilitation Monitoring Sites

Progressive rehabilitation of disturbed areas is undertaken as land becomes available on a campaign basis. The rehabilitated landform therefore consists of a mosaic of areas that have been rehabilitated at different times. Monitoring sites have been selected to incorporate as many rehabilitation campaign areas as possible to provide a representative sample of conditions across each rehabilitated landform. Data is collected at individual sites and interpreted to assess the condition of each rehabilitation campaign, final land use domain or open cut area. The rehabilitation objectives and completion criteria in the RMP apply to the whole of landform scale.

There are currently 34 rehabilitation sites monitored across OC1, OC2, OC3 and OC4. Site R33 was established during spring 2023 with R34 being established in spring 2024, and R35 and R36 being established in Spring 2025. For the spring 2025 campaign, sites R33, R34, R35 and R36 were monitored using IEM methodology. All other sites meet the required age for LTM. Rehabilitation monitoring sites are shown in **Figure 9-1**.

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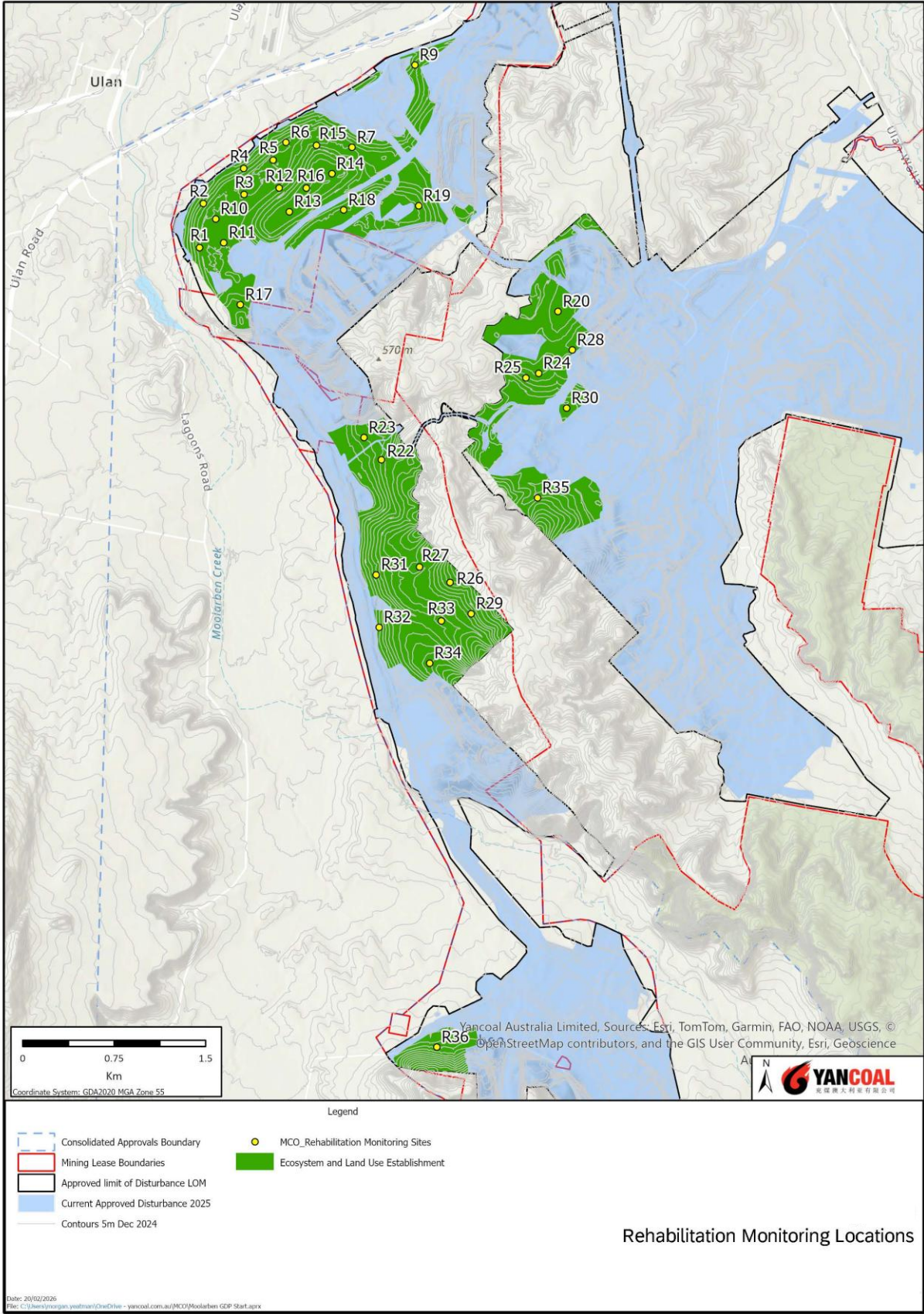


Figure 9-1 Location of Rehabilitation Monitoring Plots

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Analogue sites

Analogue sites representative of the target Domain A vegetation communities have been established in the nearby Durridgere State Conservation Area and Goulburn River National Park for the OC1 and OC4 rehabilitated landforms. The representative target vegetation communities for these analogue sites are described in the current RMP.

The rehabilitation outcomes for Domain D (OC2) rehabilitation do not require reference to analogues as they rely on published benchmark conditions for the target BVTs/PCTs (OEH 2017).

Results of Floristic Monitoring – Domain A

During the 2025 monitoring the Box Gum Woodland rehabilitation site native species richness was 33 at R30. These results were generally comparable to analogue site results where native species richness ranged from 33 to 43.

Plant Community Types (PCTs) that matched the general associations of Box Gum Woodlands were compiled during the development of the RMP completion criteria, and a typical species list was collated from these using the PCT profiles in BioNet Vegetation Classification. The target proportion of species being typical of the relevant vegetation community outlined in the criteria is 25%. The Box Gum Woodland site (R30) achieved this criterion with 79% typical species.

During the 2025 monitoring the Box Gum Woodland rehabilitation site vegetation structure including cover and abundance was within the long-term analogue range recorded at analogue sites for tree cover and tree and shrub abundance, with shrub cover above analogue ranges.

Within the Box Gum Woodland rehabilitation site (R30), litter cover, demonstrative of rehabilitation self-sustainability, was within the 10th to 90th percentile range achieving the completion criteria.

Sites that have achieved these above criteria are considered to be representative of or trending towards the target vegetation community.

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Results of Floristic Monitoring – Domain D

The native species richness recorded within OC2 sites during 2025 is provided in **Figure 9-2**. The native species richness ranged from 10 at R33 to 39 at R29. Two of the sites, R33 and R34, have not reached the benchmark native species richness of 20.5. Site R33 experienced a continued decrease compared to previous monitoring. When assessed over the overall OC2 landform, the total richness in the spring surveys remained consistent with the previous year, averaging 22.7 across OC2.

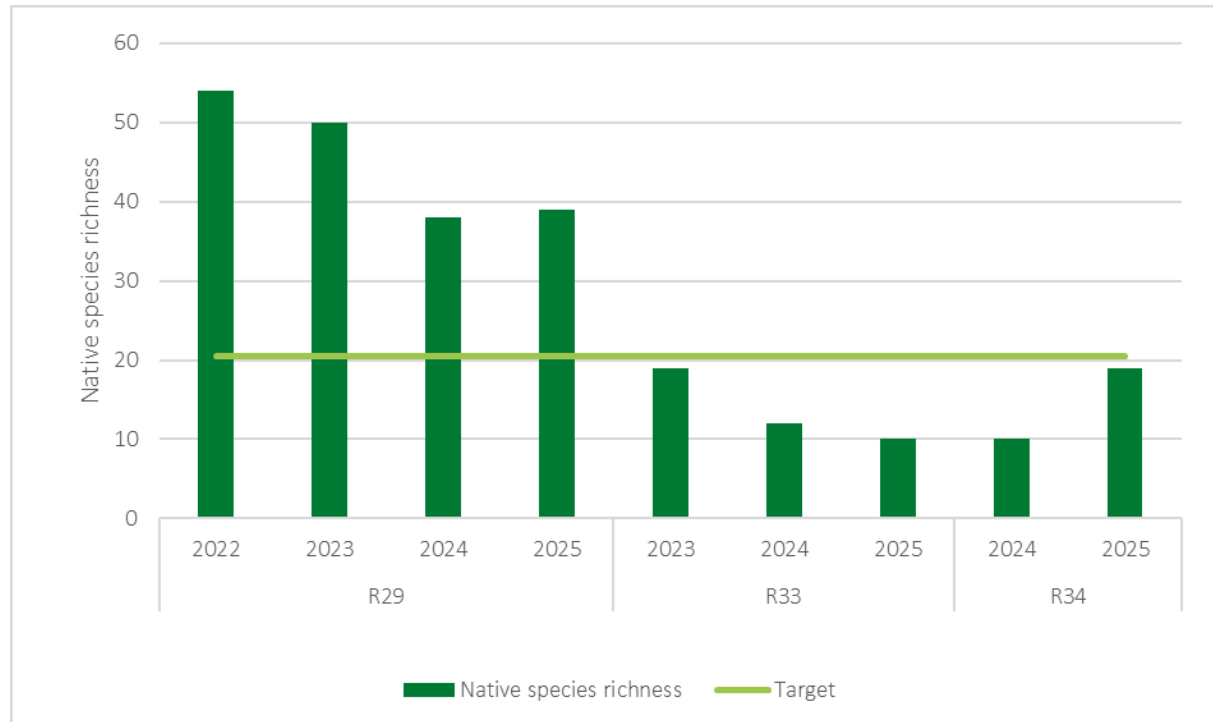


Figure 9-2 Native species richness for rehabilitation sites in the Domain D target vegetation communities from 2022 to 2025.

Domain D – Site Value Scores

Site Value Scores (SVSs) based on HU730 / HU910 BVT Benchmarks were calculated from the 2025 monitoring data at the OC2 site. The benchmark SVS required under the proposed completion criteria (13.8) has been achieved at an individual plot level at the single monitored site in 2025 (R29). The R29 SVS was 23, which is well above this completion criterion.

Domain D – Koala Habitat Assessment

Sites R33, and R34 contained koala feed tree species within the 20 x 20 m floristic plot consistent with previous monitoring. The species included *Eucalyptus melliodora*, *Eucalyptus blakelyi*, *Eucalyptus crebra*, and *Eucalyptus bridgesiana*. Therefore, 'highly suitable koala habitat' (where $\geq 15\%$ of tree species are species listed within Schedule 2 of the *SEPP (Koala Habitat Protection) 2019*) should continue to develop as rehabilitation progresses.

Results of Fauna Monitoring

Fauna monitoring is undertaken to demonstrate the presence of suitable fauna habitat and utilisation of rehabilitation areas by fauna species as rehabilitation progresses. Surveys included microbat detection, bird surveys and herpetological searches, dam inspections and deployment of four remote

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cameras within OC1, as well as opportunistic observations of fauna throughout the OC1, OC2, OC3 and OC4 rehabilitation areas. Fauna monitoring was undertaken at a range of sites to ensure a survey effort appropriate to the age and complexity of the rehabilitation across all target vegetation communities.

A total of 59 fauna species were recorded or potentially recorded across all rehabilitation sites monitored in spring 2025. This included three amphibian species, 35 bird species, and 20 mammals including 12 microbat species and four introduced species. Six of the species recorded are listed as vulnerable under the NSW *Biodiversity Conservation Act 2016* (BC Act), being the Speckled Warbler (*Chthonicola sagittata*), Eastern Bent-winged Bat (*Miniopterus orianae oceanensis*), Large-eared Pied Bat (*Chalinolobus dwyeri*) and Eastern Bent-winged Bat (*Miniopterus orianae oceanensis*).

Bird species richness ranged from 11 species (R10) to 19 species (R25). Six Speckled Warbler individuals were detected within OC4.

A range of mammal species were either recorded on remote cameras or opportunistically observed, including five native species *Macropus giganteus* (Eastern Grey Kangaroo), *Notamacropus rufogriseus* (Red-necked Wallaby), *Wallabia bicolor* (Swamp Wallaby), (*Varanus varius*) Lace Monitor and *Trichourus vulpecula* (Brush-tailed Possum) and three introduced species (Hare (*Lepus europaeus*), Pig (*Sus scrofa*), and Red Fox (*Vulpes vulpes*)).

Herpetological searches recorded five species in total, including *Varanus varanus* (Lace Monitor), *Amphibolurus muricatus* (Jacky Dragon), *Pogona barbata* (Bearded Dragon), *Ctenotus robustus* (Robust Ctenotus) and *Lampropholis guichenoti* (Common Grass Skink). This is the highest reptile species richness recorded across all sites since monitoring began and is reflective of the ongoing maturation of the OC1 rehabilitation.

A total of 18 different bat species were ‘definitely’ or ‘potentially’ recorded, which is an increase from 15 species in 2023 and 17 species in 2024. The number of microbat species recorded was similar among sites in the same rehabilitation areas. Notably, Eastern Bent-winged Bat was ‘definitely’ detected across all monitoring sites during 2025.

Assessment of Rehabilitation Performance Indicators

Analysis of the Box Gum Woodland rehabilitation and OC2 Ecosystem and species credit sites against the proposed completion criteria is presented in Table 33 and Table 34. In summary, the outcomes of monitoring were:

OC4:

- Domain A Box Gum Woodland area has achieved two and partially achieved one of four relevant completion criteria.

OC2:

- Domain D areas have achieved six out of twelve relevant completion criteria.

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Table 33 OC2 Ecosystem and Species Credit Rehabilitation Assessment

Proposed Completion Criteria	OC4 - 2025 Monitoring Outcome
Native plant species are characteristic of the target vegetation community when compared to the analogue sites.	The vegetation composition at R30 is characteristic of analogue sites. Outcome: Proposed completion criteria achieved in 2025.
Visual - minimal erosion that would not require moderate to significant ongoing management and maintenance works. Visual - no signs of land instability such as mass movement. Visual – no areas of gully erosion. Visual – no evidence of tunnel erosion. Visual – no evidence of active scour likely to compromise surface water management structure. Survey verifies that settlement and/or material loss is within predicted limits and will not compromise final landform drainage via differential settlement. Erosion rate monitoring verifies that erosion levels are within the range of final land use. Significant surface water management structures have been constructed in accordance with hydrological design.	Signs of active gully, tunnel and rill erosion observed in several locations. Outcome: Proposed completion criteria not yet achieved in 2025.
'High Threat Exotic' (HTE*) weed presence and cover is monitored regularly. Priority and HTE weeds identified through monitoring have been controlled.	There were HTE present at all monitoring sites. The level of HTE is not significant and is managed through ongoing maintenance. Outcome: Proposed completion criteria achieved in 2025.
Cover, abundance and height range of native plants growth forms are characteristic of, or trending towards the target vegetation community.	Tree cover and abundance achieved completion criteria with shrub abundance achieving but shrub cover below the completion criteria in OC4 rehabilitation. Outcome: Proposed completion criteria partially achieved in 2025.

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Table 34 Sedimentary Ironbark Forest Rehabilitation Assessment

Proposed Completion Criteria	2025 Monitoring Outcome
Visual - minimal erosion that would not require moderate to significant ongoing management and maintenance works. Visual - no signs of land instability such as mass movement. Visual – no areas of gully erosion. Visual – no evidence of tunnel erosion. Visual – no evidence of active scour likely to compromise surface water management structure. Survey verifies that settlement and/or material loss is within predicted limits and will not compromise final landform drainage via differential settlement. Erosion rate monitoring verifies that erosion levels are within the range of final land use. Significant surface water management structures have been constructed in accordance with hydrological design.	Areas of partly stabilised gully and tunnel erosion were identified within OC2. Outcome: Proposed completion criteria not yet achieved in 2025.
Native Plant Species Richness is ≥ 20.5 at year 10 post mining.	Native plant species richness was greater than 20.5 at one of the three monitored locations. Outcome: Proposed completion criteria not yet assessable in 2025.
$\geq 15\%$ of the total number of trees are the regionally relevant species** within koala FBA species credit areas.	There were no trees suitable for koala use of greater than 10cm DBH in the monitoring plots, however this is expected at this stage of the rehabilitation area. Outcome: Proposed completion criteria not assessable in 2025.
Native Over Storey Cover between 3.75 and 80% at year 10 post mining operations.	Average native overstorey cover is 2%. Outcome: Proposed completion criteria not yet assessable in 2025.
Native Mid-Storey Cover between 1.25 and 40% at year 10 post mining operations.	Average mid-storey cover was 2.3% across OC2 and OC3. Outcome: Proposed completion criteria not yet assessable in 2025.
Native Ground Cover, Grass between 3 and 100% at year 10 post mining operations.	Native grass ground cover was within target range and achieved the completion criteria. Outcome: Proposed completion criteria not yet assessable in 2025.
Native Ground Cover, Shrubs between 0.5 and 20% at year 10 post mining operations.	Native shrub groundcover was within range for one of the three monitoring sites.

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Proposed Completion Criteria	2025 Monitoring Outcome
	Outcome: Proposed completion criteria not yet assessable in 2025.
Native Ground Cover, Other between 2 and 80% at year 10 post mining operations.	The average native ground cover, other was 1.3% across OC2 rehabilitation. Outcome: Proposed completion criteria not yet assessable in 2025.
Total Length Fallen Logs (m) is 1.25 at year 10 post mining operations.	The average total length of fallen logs was greater than 14m and achieved the completion criteria. Outcome: Proposed completion criteria not yet assessable in 2025.
Exotic Plant Cover is <45% at year 10 post mining operations.	The average exotic plant cover achieved the criteria of less than 45% exotic plant cover and achieved the completion criteria. Outcome: Proposed completion criteria not yet assessable in 2025.
Overall Site Value Score (OEI, 2015) (average of plots in vegetation zone) is ≥ 13.8 at 10 years post mining operations.	The overall Site Value Score for OC2 in 2022 was 23 and achieved the completion criteria. Outcome: Proposed completion criteria not yet assessable in 2025.
Litter cover is within 10 th -90 th percentile variation range of reference sites/data.	Litter cover was within the 10 th and 90 th percentile for all OC2/OC3 monitored sites. Outcome: Proposed completion criteria achieved in 2025.

Notes: * HTEs as per the BAM 2020 ** Under the *State Environmental Planning Policy (SEPP) (Koala Habitat Protection) 2021*.

9.5 REHABILITATION WORKS

Rehabilitation of disturbed lands are undertaken sequentially (or in phases) to achieve the final land use. A description of these phases of rehabilitation relevant to the MCC are provided in the FWP. A summary of rehabilitation phases completed during the Reporting Period included:

Decommissioning

There were no decommissioning activities undertaken at MCO.

Landform Establishment

48.3ha of landform establishment in OC2 and OC4 was completed during 2025. Final landforms were established to the relevant completion criteria including:

- Constructed landforms consistent with surrounding topography.
- Slopes were generally between 10° and 18°
- Constructed landforms were free draining.
- No hostile overburden material in the final surface layers.

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Growth Medium Development

47.1ha of opencut areas within OC4 underwent growth medium development followed by ecosystem and land use establishment during 2025.

Ecosystem and Land use Establishment

468.6ha of rehabilitation located within OC1, OC2, OC3 and OC4 is in the ecosystem and land use establishment phase. These areas were maintained and further enhanced during 2025.

9.6 ACTIONS FOR NEXT REPORTING PERIOD

Rehabilitation actions to be progressed in the next period include:

- Continued progressive rehabilitation.
- Continued weed and feral animal control.
- Continued monitoring of rehabilitation areas and undertake management actions informed by monitoring results, including erosion and track maintenance, infill planting or reseeded where required.

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10.0 COMMUNITY

10.1 COMMUNITY ENGAGEMENT

During 2025, MCO continued to foster positive relationships with the local community through engagement and ongoing support provided to a range of community groups and events – including, but not limited to; Doctors for Mudgee, Turill Community Committee and Sports Clubs Inc, Gulgong Show Society Inc, Rylstone Rural Fire Brigade, Henry Lawson Society Gulgong, Lifeline Central West Ltd, Henry Lawson Society Gulgong, Cancer Patients Assistance Society of NSW (Can Assist) Mudgee Branch and Rotary Club of Mudgee. In total, MCO provided over \$240,000 during 2025 to 41 community groups and events through its Community Support Program and other programs (Appendix 5).

Community/stakeholder related activities undertaken during the Reporting Period include:

- Max Potential Program
- Mudgee Running Festival
- Direct engagement with nearby landholders

Moolarben continued to provide the community with information on its website (<https://www.yancoal.com.au/our-sites/moolarben/>). Information available included project approvals, CCC meeting minutes, community complaint records, environmental monitoring information, environmental audits, environmental management plans and Annual Reviews.



Photo 1: Lifeline Central West Ltd

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Photo 2: Mudjee Running Festival



Photo 3: Max Potential Program

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10.2 COMMUNITY COMPLAINTS

MCO maintains a 24-hour Environment and Community Complaints Hotline (ph:1800 556 484). This Hotline is available to receive any complaints from neighbouring residents or interested stakeholders. Details for the Hotline are available on the MCO website and in community newsletters.

MCO has developed a Community Complaints Procedure which details how to receive, respond to, record, and action any community complaint received to site. This procedure also outlines the reporting requirements relating to community complaints, including:

- Monthly reporting of community complaints on the MCO website.
- Discussion of community complaints as part of the operational performance provided during CCC meetings.
- A summary of complaints is provided in the Annual Review and Annual Return (as part of EPL reporting).

During 2025, a total of 4 complaints were received in relation to MCC operations. All complaints are investigated and included in the complaints register on the Moolarben Coal website <https://www.yancoal.com.au/our-sites/moolarben/moolarben-coal-documents/#approval>

A comparison of complaints to previous years is presented in **Table 35**. There has been a general decrease in complaints during the Reporting Period and continues the trend since 2015. A register of complaints is provided in **Appendix 4**.

The ongoing use of Mining and Production Environmental Assistants continues to provide real-time feedback to the mining operation and to inform proactive and reactive responses. Ongoing community and stakeholder liaison and consultation has continued.

Table 35 Comparison of Community Complaints

Reporting Period	Noise	Blast	Air	Water	Other	Total
2015	274	6	2	0	4	286
2016	157	7	2	0	1	167
2017	108	3	1	2	1	115
2018	54	10	0	0	1	65
2019	33	1	4	0	0	38
2020	12	3	1	0	0	16
2021	22	1	3	0	13	39
2022	8	5	5	3	5	26
2023	4	4	2	1	7	18
2024	3	1	1	0	2	7
2025	1	1	0	1	1	4

10.3 COMMUNITY CONSULTATIVE COMMITTEE (CCC)

In accordance with Condition 6, Schedule 5 of project approval (05_0117) and Condition 6, Schedule 6 of project approval (08_0135) the Community Consultative Committee (CCC) continued to meet during the 2025 Reporting Period. The purpose of a CCC is to provide a forum for open discussion between MCO, the community, the local council and other key stakeholders on issues directly relating to the project, including performance against any conditions, and to keep the community informed on these matters.

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Members of the MCO CCC for 2025 are presented in **Table 36**. MCO conducted four CCC meetings during the Reporting Period with summaries provided in **Table 37**. Meetings were chaired by an independent chairperson with the minutes being available on the MCO website.

Table 36 CCC Members 2025

Name	Representing	Name	Representing
Aleshia Lonsdale	Mudgee Local Aboriginal Land Council	Helen Ungaro	Ulan Public School and Local Landholder
Dr Julia Imrie	Local Landholder and Business Owner	David Stokes	Local resident
Bev Smiles	Mudgee District Environment Group	Deborah Palmer	DPHI endorsed Independent Chair
Cr Des Kennedy	Councillor, Mid-Western Regional Council	Cr Katie Dicker	Councillor, Mid-Western Regional Council
David Lowe	Mudgee Chamber of Commerce	Brian Wesley	Moolarben Coal Operations
Ian Flood	Moolarben Coal Operations	Rebecca Shanks	Moolarben Coal Operations

Table 37 CCC Meeting Summary 2025

Date	Meeting Summary
12 th March 2025	Site Tour. General update on community interaction, operations and exploration, environmental monitoring, community complaints, rehabilitation, biodiversity offset management and employment. Update on the UG2. Update on OC3 extension project.
11 th June 2025	General update on community interaction, operations and exploration, environmental monitoring, community complaints, rehabilitation, biodiversity offset management and employment. Update on OC3 extension project. Update on NSW EnergyCo Project. Annual 2024 Review Summary.
17 th September 2025	General update on community interaction, operations and exploration, environmental monitoring, community complaints, rehabilitation, biodiversity offset management and employment. Update on OC3 extension (amended) project.
10 th December 2025	General update on community interaction, operations and exploration, environmental monitoring, community complaints, rehabilitation, biodiversity offset management and employment. Update on OC3 extension (amended) project. Update of the upgrade of Saddlers Creek Road intersection.

10.4 ULAN ROAD STRATEGY

All associated works regarding the capital upgrades for Ulan Road and Cope Road in line with the Strategy and managed by MWRC have been 100% completed, the maintenance period is ongoing in accordance with the Strategy (maintenance period ongoing for MCO). The Mid-Western Regional Council has continued maintenance works on Ulan Road. Moolarben continues to make financial contributions to the maintenance costs of the Ulan Road works detailed in the agreement.

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11.0 INDEPENDENT AUDIT

During the previous 2024 Reporting Period an Independent Environmental Audit (IEA) was undertaken in accordance with Condition 9, Schedule 5 of PA 05_0117 (as modified) and Condition 9, Schedule 6 of PA 08_0135. The three-day site inspection from the 17 to the 19 April 2024 IEA was undertaken by RPS AAP Consulting Pty Ltd (RPS).

In general, operational environmental management activities observed during the site inspection were being carried out in a competent manner, with the non-compliances identified by the Auditors being the exception. A copy of the 2024 IEA with findings including the MCO's responses to address non-compliances or opportunities for improvement (OFIs) can be found on MCO's website (www.yancoal.com.au/our-sites/moolarben/). The status of actions from the 2024 IEA is provided in **Table 38**.

The next Independent Environmental Audit will be required in April 2027. The note associated with Condition 9 of Schedule 5 of NSW Project Approval (05_0117) requires interim IEA's prior to the completion of LW408 at UG4.

Table 38 Update of Actions from 2024 IEA

IEA Ref#	Audit Finding	Audit Recommendation	MCO Response	Status of Audit Action
Project Approval 08_0135 Schedule 3 Condition 7	Airblast overpressure exceeded the relevant noise criteria during the audit period. 2022: Sighted Annual Review (Section 6.3 and Appendix 3c) and Monthly Compliance Monitoring Reports. Airblast overpressure exceeded 115dB(Lin Peak) on five occasions, but not more than 5% of total blasts over the 12- month period including one event above 120dBL at BM5 on 20 May 2022 (124.1dBL). 2024: Sighted Monthly Environmental Monitoring Reports for January to March. One air blast overpressure event noted on 8 February 2024 at 125.8dBL at BM8.	Implement remedial actions as proposed to the Department.	MCO completed an investigation into the blast overpressure event on the 20th of May 2022 and the 8th of February 2024 and continue to implement remedial actions as proposed to the Department, including: - Engagement of specialist consultants - Review of pre-blast design and overpressure modelling - Review of pre-blast assessments and meteorological checks	Complete MCO completed an Independent Environmental Assurance Audit (IEAA) in 2025. The following responses from the IEAA regarding the event: <i>The audit finds that all required notifications relating to the overpressure exceedance on 8 February 2024 at Open Cut 4 were completed within the required regulatory timeframes. Trigger Action Response Plans were followed, and relevant authorities, including the EPA and DPHI, were notified. Site personnel confirmed that all corrective actions associated with the incident have been implemented and closed out.</i> <i>The audit finds that all required notifications relating to the overpressure exceedance on 20 May 2024 at Open Cut 1 were completed in accordance with regulatory obligations.</i>
EPL No. 12932 Condition L6.3	Exceedances of 120 dB air blast overpressure occurred on 20 May 2022 and 8 February 2024.	Appropriate investigative action and notification occurred. No further action required.	MCO completed an investigation into the blast overpressure event on the 20th of May 2022 and the 8th of February 2024 and continue to implement remedial actions as proposed to the Department, including: - Engagement of specialist consultants - Review of pre-blast	

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IEA Ref#	Audit Finding	Audit Recommendation	MCO Response	Status of Audit Action
			design and overpressure modelling - Review of pre-blast assessments and meteorological checks	<i>Notifications were issued to the EPA, DPHI, and relevant stakeholders, and Trigger Action Response Plans were followed. Site personnel confirmed that all corrective actions associated with the incident have been implemented and closed out with the exception of the response to the revised Show Cause Notice which was issued by DPHI on 2 May 2025 (in progress at the time of the audit).</i> MCO response to received Show Cause Notice was sent to the Department on 16 May 2025.
EPL No. 12932 Condition O5.1	Waste oils were observed stored on unbundled pallets adjacent to a sump at the rear of the main workshop area. While secondary containment was not present, this area is confined to the internal mine water network.	Consideration may be given to storage of waste oils in a covered hardstand area.	MCO will review waste hydrocarbon storage practices and implement improvements in accordance with Australian Standard and Legislative requirements.	Complete MCO undertakes environmental inspections individually and in conjunction with site waste contractors which can include waste hydrocarbon storages areas. Recognised hazards are logged in accordance with site reporting and managed accordingly to maintain Australian Standards and Legislative requirements.
OF102	It is important to clarify and communicate the requirements for the agricultural rehab areas, regarding the Rural Land Capability commitments versus Land and Soil Capability measurements, given there is inconsistency between the PA and RMP. This will likely need to be addressed within the next audit period to ensure compliance.		MCO will undertake works to clarify any inconsistencies between the Project Approval (PA) and the Rehabilitation Management Plan (RMP)	Ongoing MCO will be consulting with the NSW Resources Regulator during 2026 with the aim of developing approved rehabilitation completion criteria. During this process, consideration will be given to alignment with any approval commitments. Land and Soil Capability (LSC) assessment is a contemporary method that has been developed from the earlier Rural Land Capability (RLC) Classification, and the focus for MCO will be on alignment to the LSC
OFI03	Some waste oils were observed stored on unbundled pallets adjacent to a sump at the rear of the main workshop area. While this area is confined to the internal mine water network, and oils and other liquids were typically stored on bunded pallets, it is recommended that MCO review the location and storage practices for		MCO will review waste hydrocarbon storage practices and implement improvements in accordance with Australian Standard and	Complete MCO undertakes environmental inspections individually and in conjunction with site waste contractors which can

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IEA Ref#	Audit Finding	Audit Recommendation	MCO Response	Status of Audit Action
	waste oils and other liquids and consider whether these items should be stored on hardstand areas or other appropriate location.		Legislative requirements.	include waste hydrocarbon storages areas. Recognised hazards are logged in accordance with site reporting and managed accordingly to maintain Australian Standards and Legislative requirements.

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12.0 INCIDENTS & NON-COMPLIANCES

There were three reportable incidents and three non-compliances during the Reporting Period:

12.1 Reportable Incidents

6/01/2025 - Six-day sample for Dust Monitoring PM10 (HVAS) was not obtained at EPL16 (PM01 Ulan Village).

The missed sample was a result of a motor blockage fault and failed flow sensor causing EPL16 to only be operational for half the sampling window.

A replacement unit was installed on 10 January 2025.

10/09/2025 – Release of sediment laden water through installed sediment controls and flowed into the downstream 'Eastern Creek'.

Sediment Dam 424 was under construction to manage run-off in the vicinity of OC4. The dam has been designed in accordance with the *Managing Urban Stormwater: Soils and Construction Volume 1, and Mines and Quarries Volume 2E*, as required under the Project Approvals (refer to Water Management Performance Measures) and the SWMP (refer to Erosion and Sediment Control Plan in Section 4.3).

At the actual Dam 424 construction site, rainfall received as per construction contractor WTC daily project logs was recorded at 46mm for the period 9 to 10 September 2025.

During the morning of Wednesday 10 September 2025 sediment laden runoff from the sediment dam construction site passed through erosion and sediment controls that were installed along the northern ground disturbance boundary of the site. The sediment laden runoff reported to the 'Eastern Creek' catchment, which then flows to Wilpinjong Creek. The sediment water passed through a sediment fence, hay bales and mulch barrier before reporting to 'Eastern Creek'. The released water was not significantly higher in total suspended solids than the upstream water ('Eastern Creek'). The released water was of similar quality to the receiving water

No complaints were received by Moolarben Coal in respect of the event.

EPA, DPHI and RR were notified of incident in accordance with PIRMP. DPHI provided response, no further correspondence regarding incident received.

7/11/2025 - Discharge water quality monitoring result above the discharge design limit for dissolved zinc.

Moolarben releases treated water from a Water Treatment Plant (WTP) via a pipe to the Goulburn River and the release point is located at the confluence of the Goulburn River and Bora Creek. Routine Water quality sampling is undertaken in accordance with the approved SWMP and EPL 12932 from the Water Treatment Plant discharge point (EPL Pt 1).

On Friday 7 November 2025 discharge from the WTP was ceased due to the laboratory results received showing a potential exceedance of dissolved zinc with a level of 0.009mg/L, against a design limit of 0.008mg/L, and an investigation was commenced into the elevated results.

Water quality sampling at sample point EPL Pt 1 occurred Wednesday 5th November 2025, while the WTP was discharging water. The water quality results from this sample were received from the

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laboratory on Friday 7th November 2025. On review of these results, discharge from the WTP was immediately ceased.

In response to the elevated sample result, the duplicate sample from EPL Pt 1 sampling on Wednesday 5th November 2025 was sent for laboratory analysis on the 10 November 2025. The duplicate sample results were received with a dissolved zinc level of 0.006mg/L which is under the design limit for dissolved zinc (0.008 mg/L) and therefore compliant with the SWMP design limit.

A simulation of a discharge was undertaken on the 11 November 2025 by running the WTP with discharge water diverted into Mine Water Dam WP18 (i.e. not released).

It was concluded that the samples taken from the EPL Pt 1 on the 5th November 2025 were contaminated during the sampling process and are not representative of the quality of water released on those days.

12.2 Non-Compliance Summary

Table 39 Non-Compliance Summary

Relevant approval	Condition	Condition description (summary)	Cause of Non-Compliance	Action to Address Non-Compliance
EPL12932	M2.1	HVAS PO1(EPL16) missed sample	Section 12.1	Section 12.1
PA 05_0117	Sch. 3 Con. 31	Release of sediment laden water through installed sediment controls and flowed into the downstream 'Eastern Creek'	Section 12.1	Section 12.1
PA 08_0135	Sch. 3 Con. 27			
PA 05_0117	Sch3. Con.33	Water quality monitoring result above the discharge design limit for dissolved zinc	Section 12.1	Section 12.1
P 08_0135	Sch 3 Con.29			

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13.0 ACTIVITIES TO BE COMPLETED IN THE NEXT REPORTING PERIOD

The following is a summary of measures to be implemented in the next Reporting Period.

- Review and revise environmental management plans as necessary.
 - Including both the Biodiversity Management Plan (BMP) and consolidating the Biodiversity Offset Management Plans (BOMPs).
- Revision of water level triggers for Tertiary paleochannel piezometers PZ213, PZ214 and PZ188.
- Monitoring network above UG2 and UG4 to be expanded.
- Continued progressive rehabilitation.

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APPENDIX 1. LAND OWNERSHIP

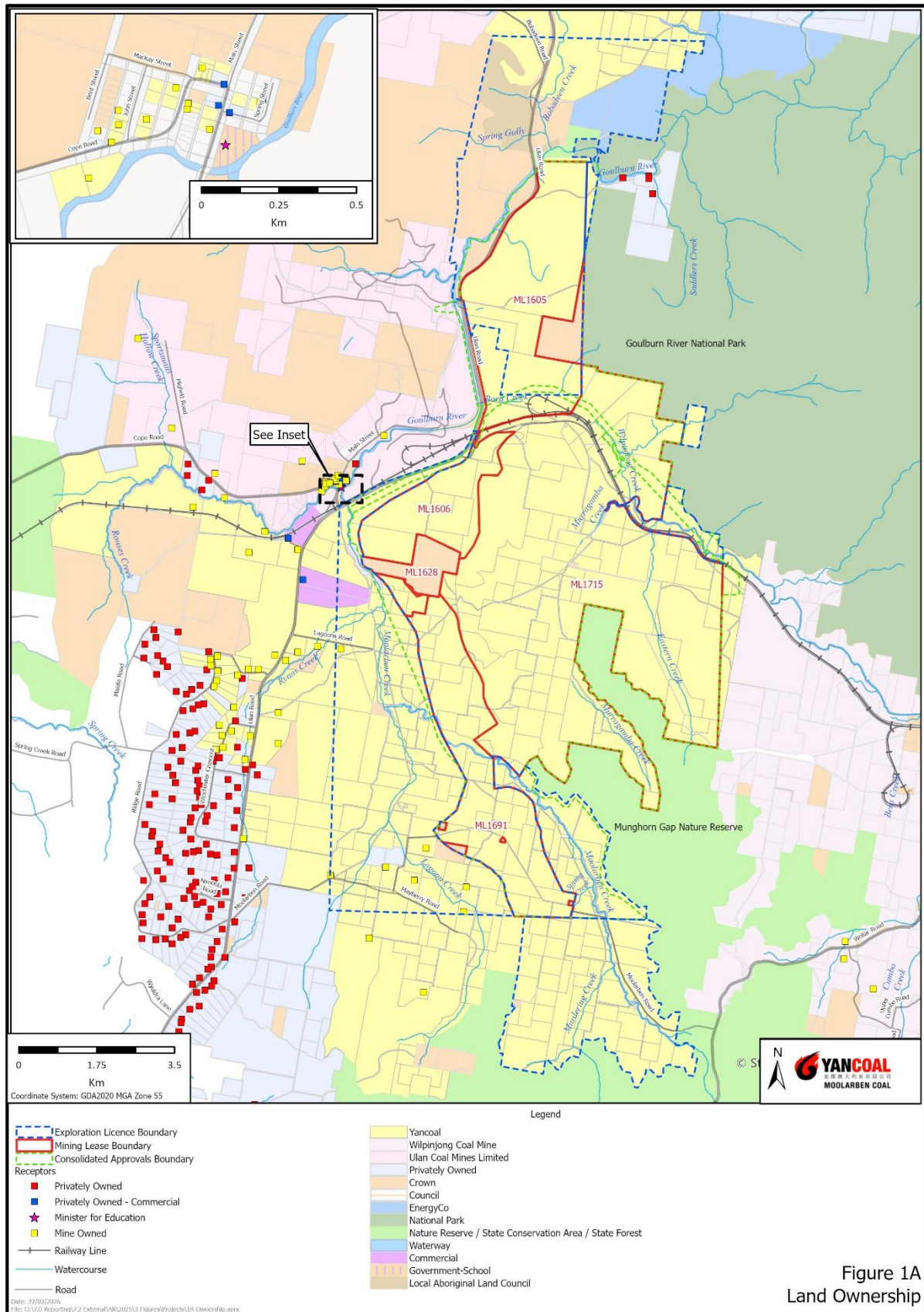


Figure 1-a Land Ownership

APPENDIX 2. MONITORING LOCATIONS

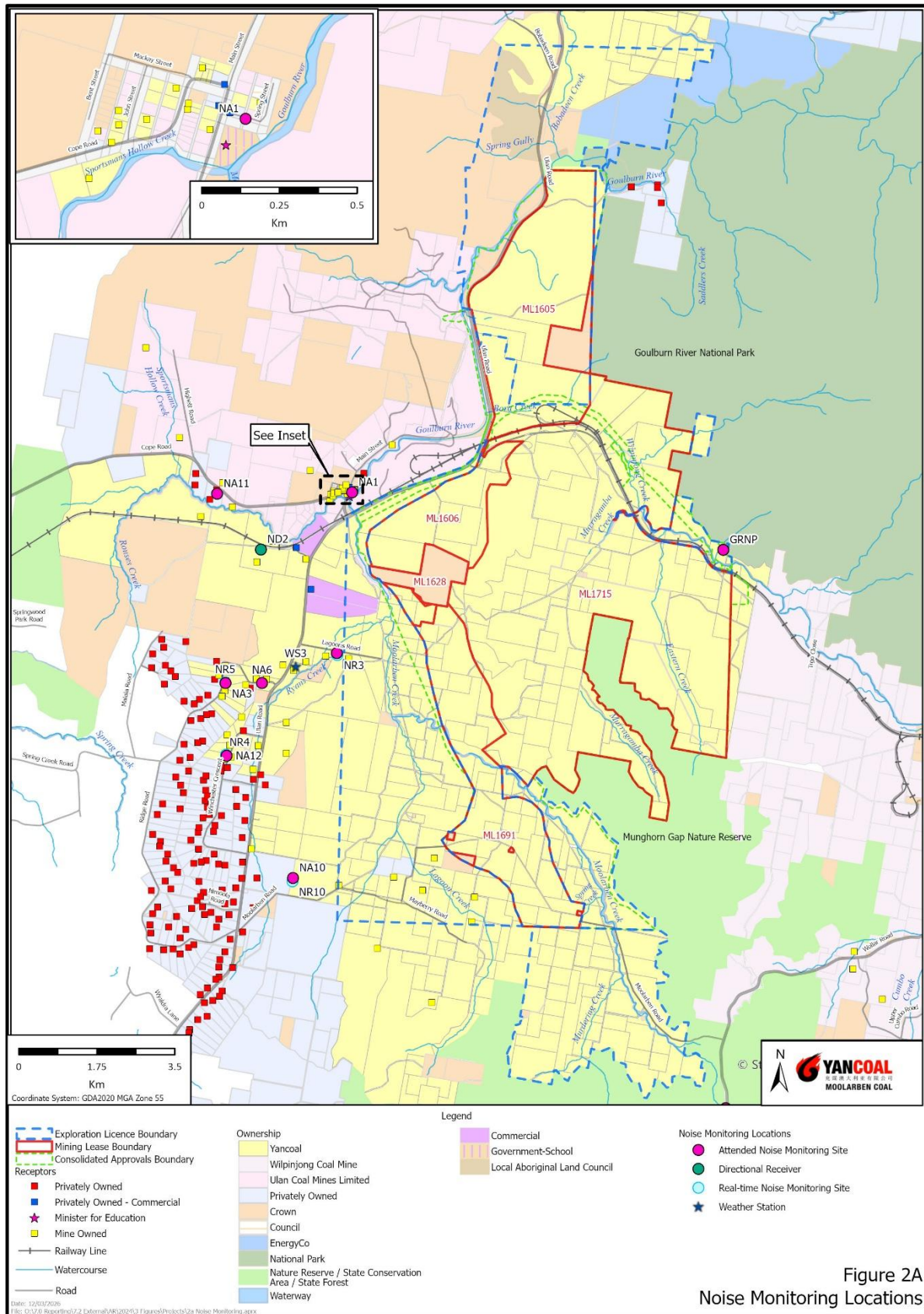


Figure 2A
Noise Monitoring Locations

Figure 2-a Noise Monitoring Locations

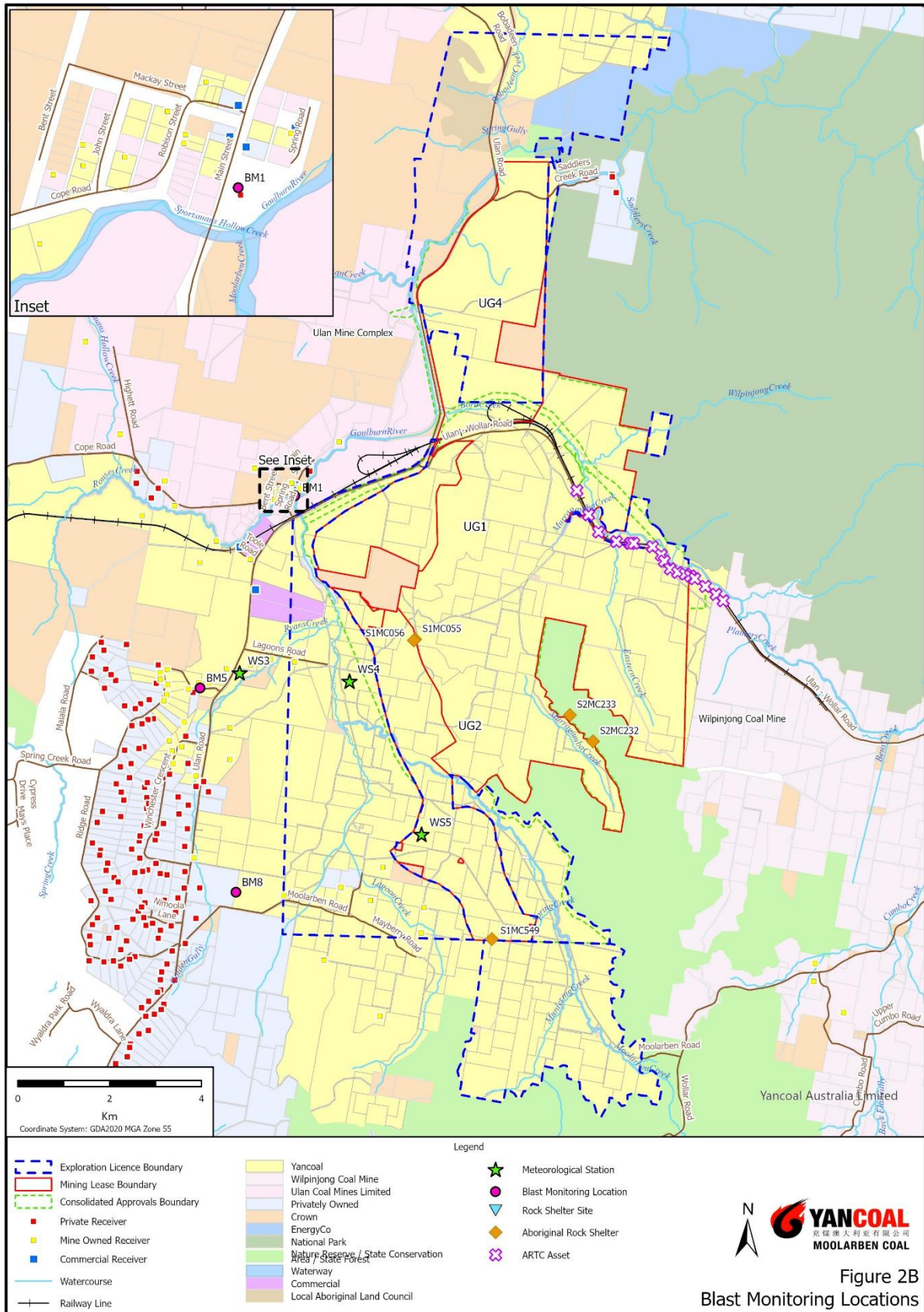
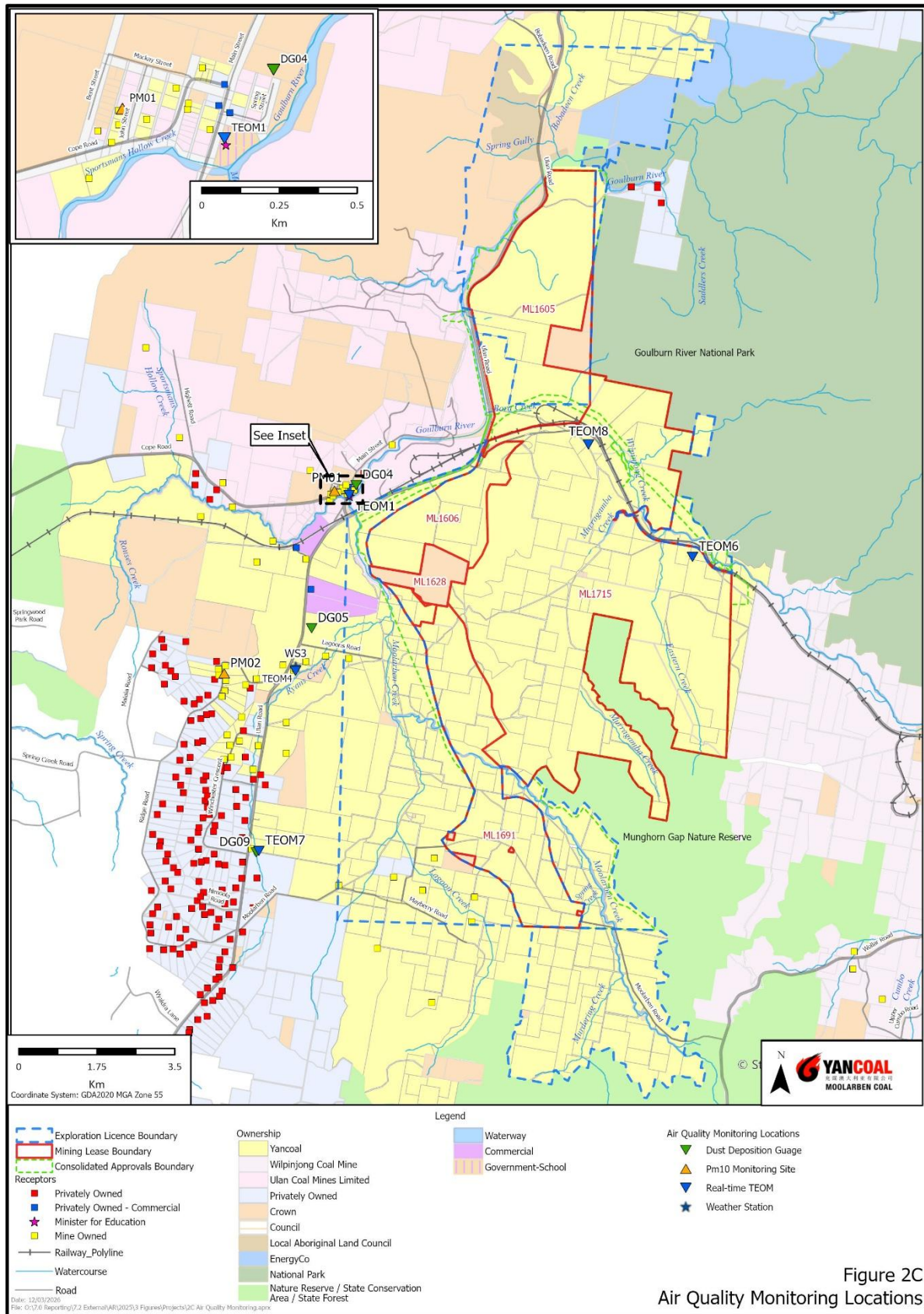
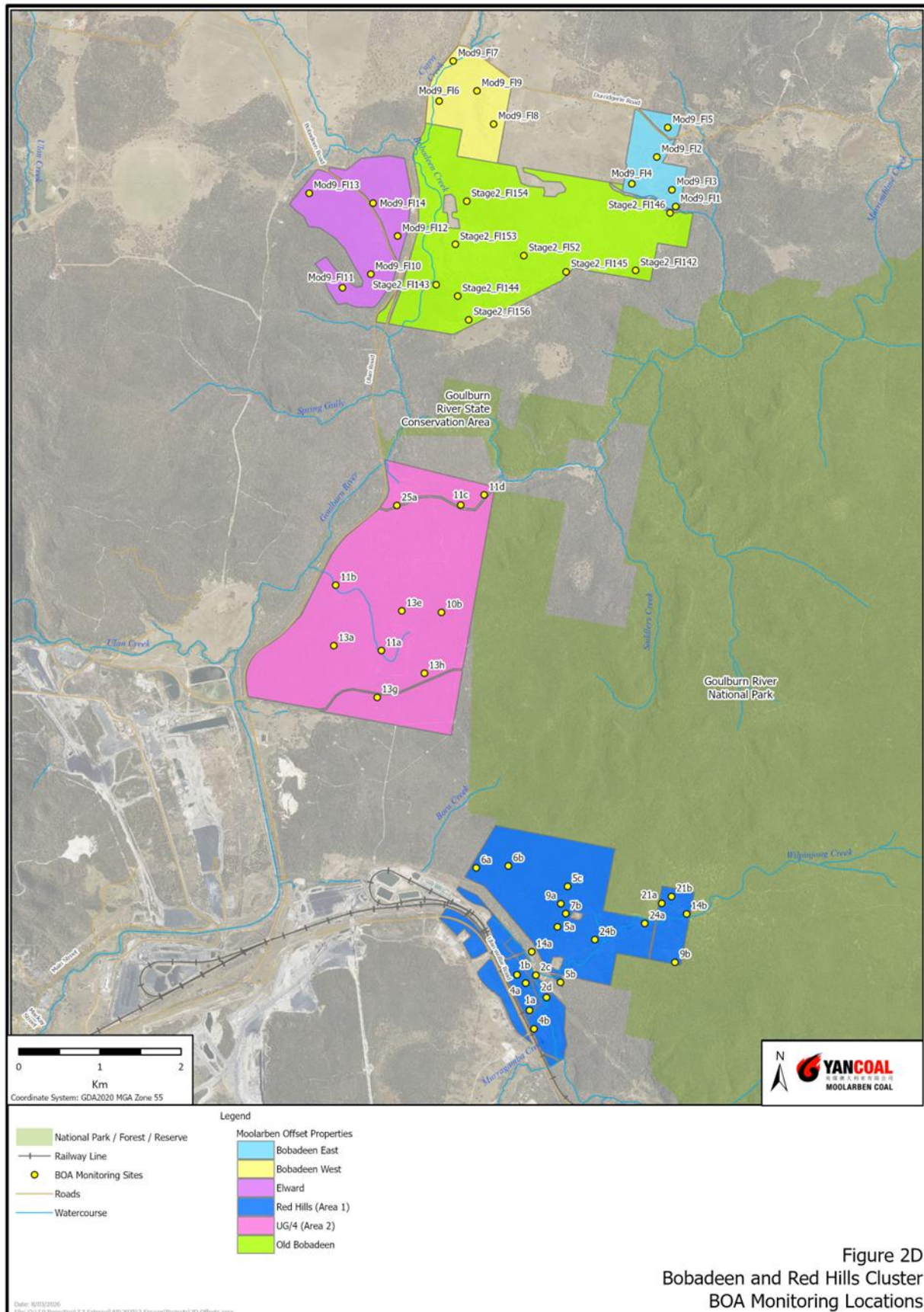


Figure 2-b Blast Monitoring Locations

Figure 2B
Blast Monitoring Locations





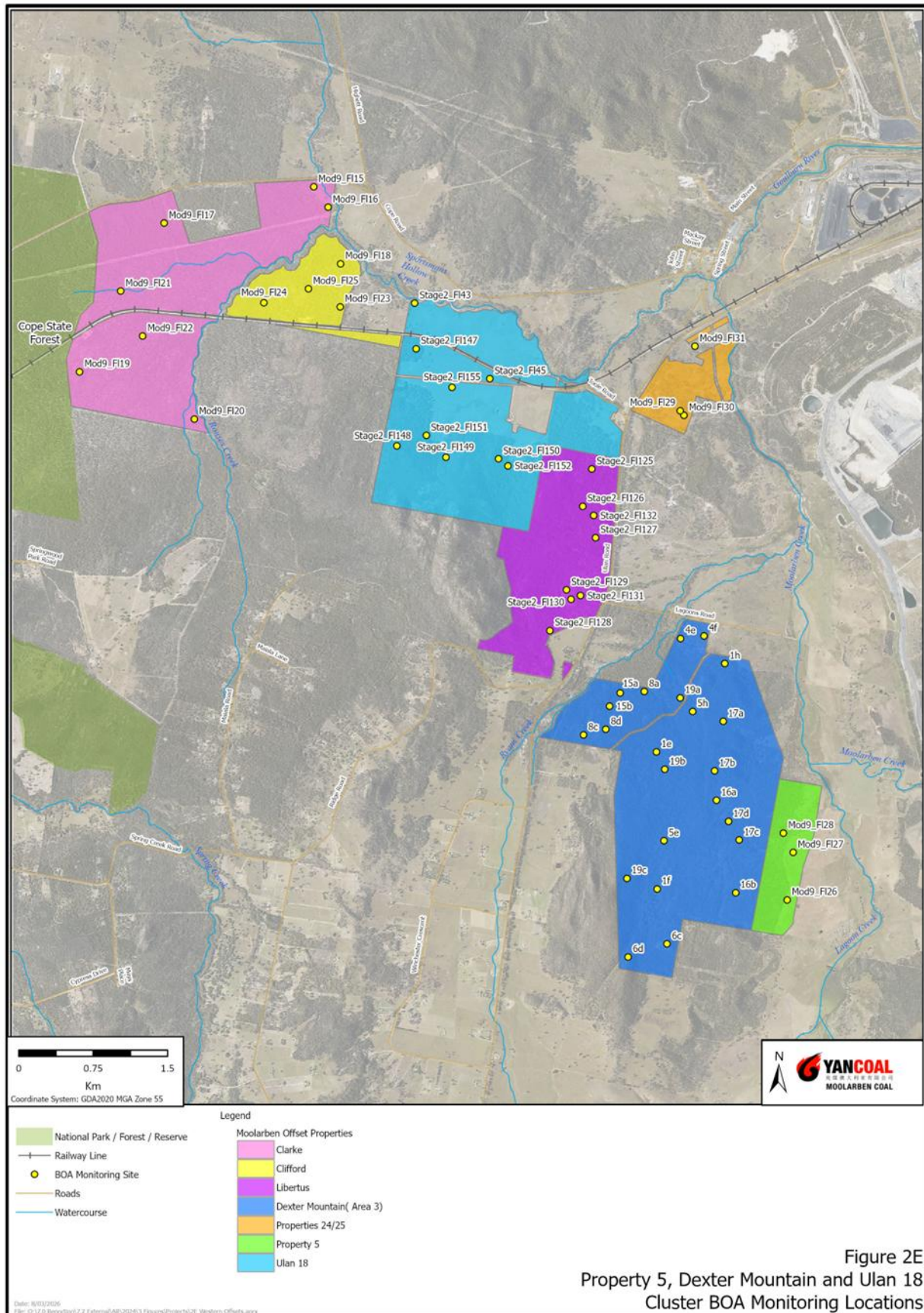
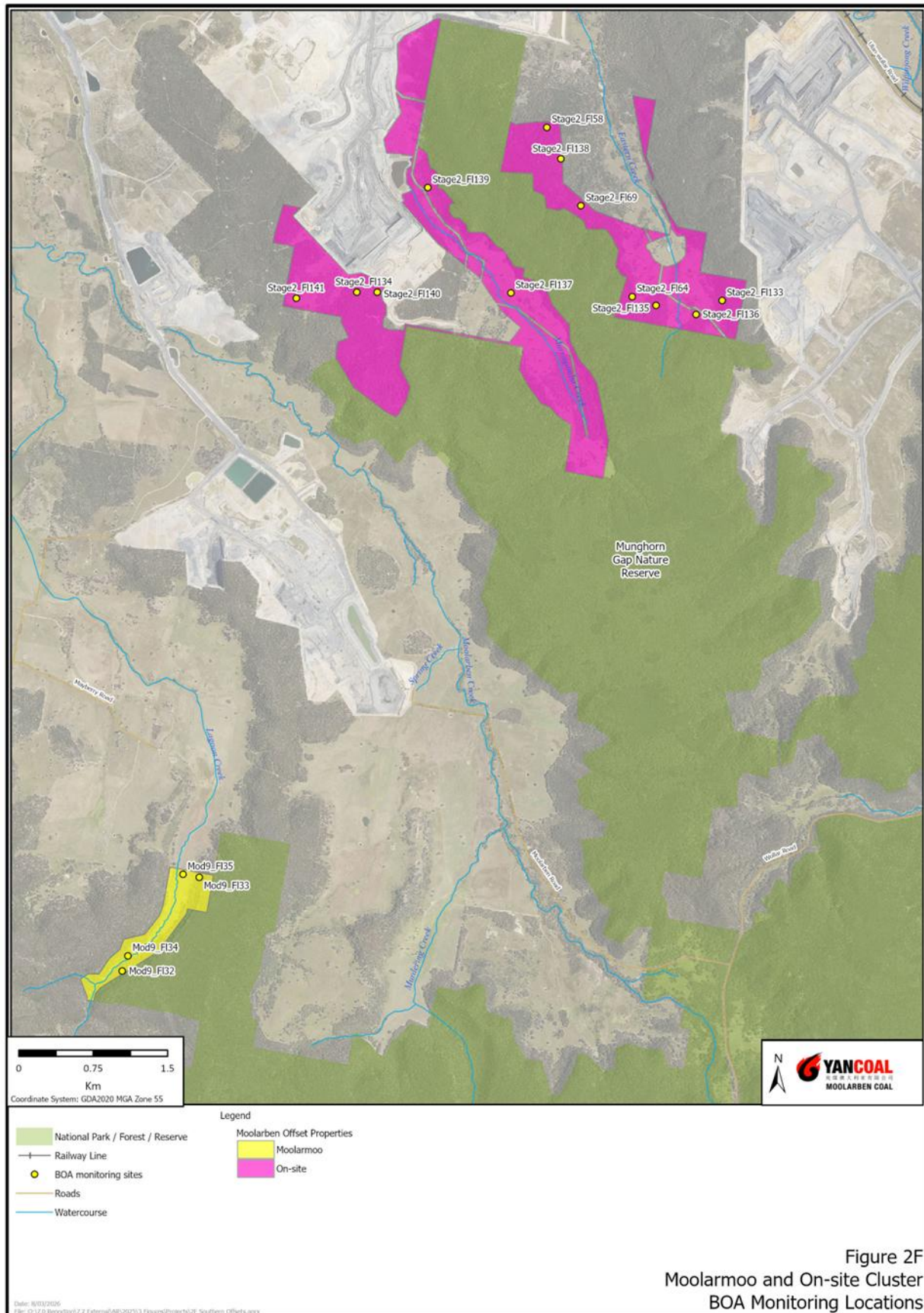


Figure 2-e MCO Western Biodiversity Offset Area Monitoring Site Locations



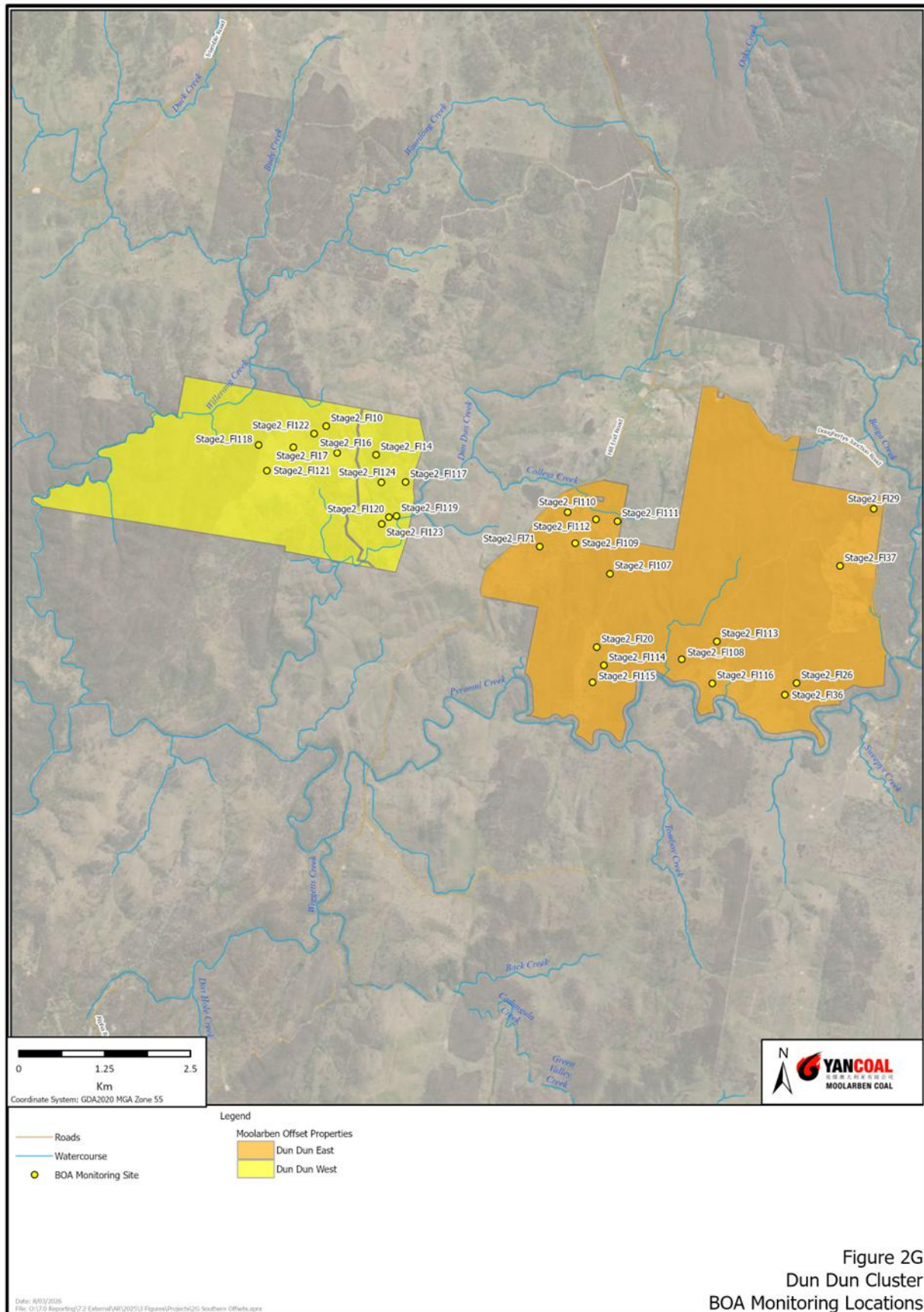
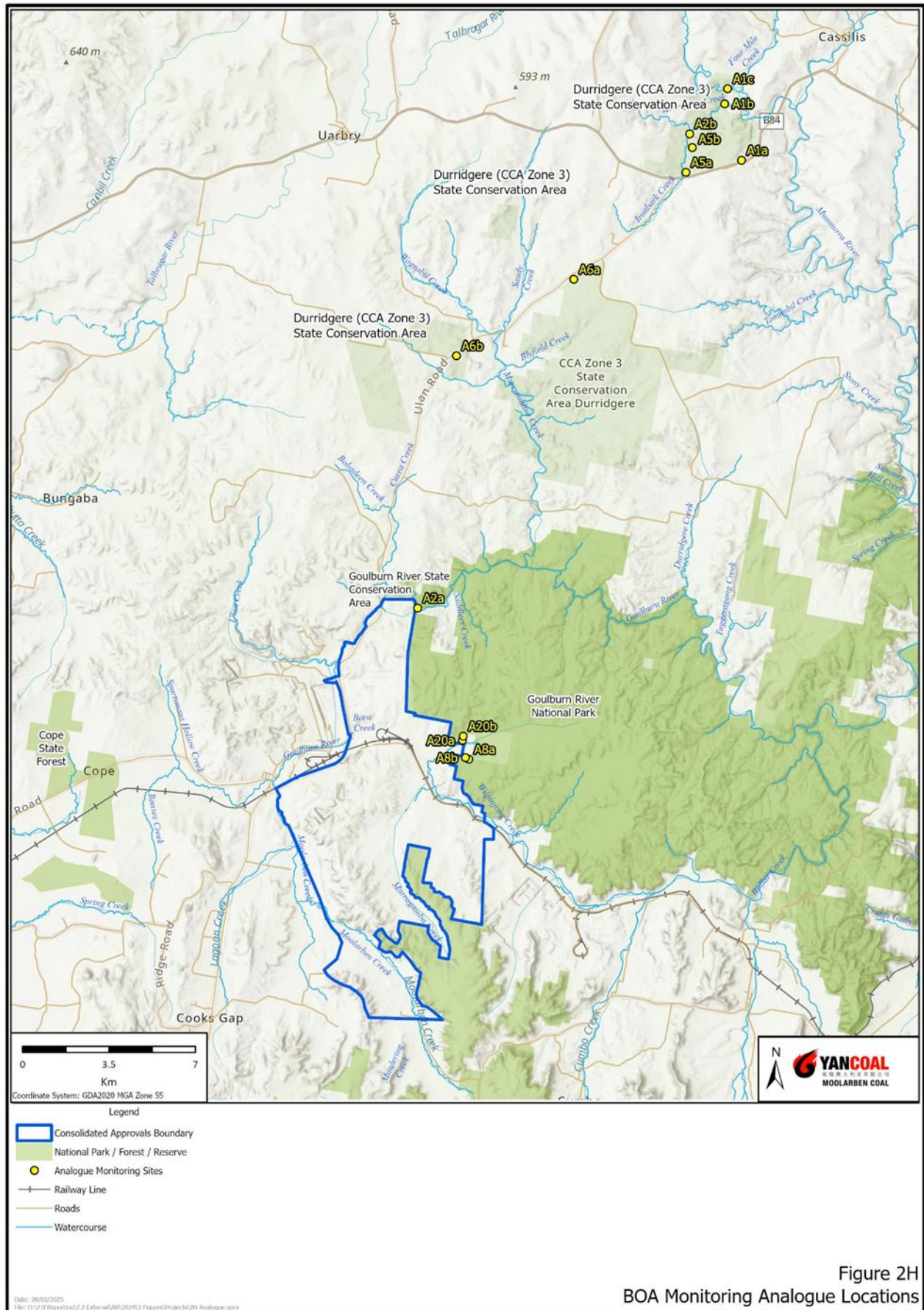
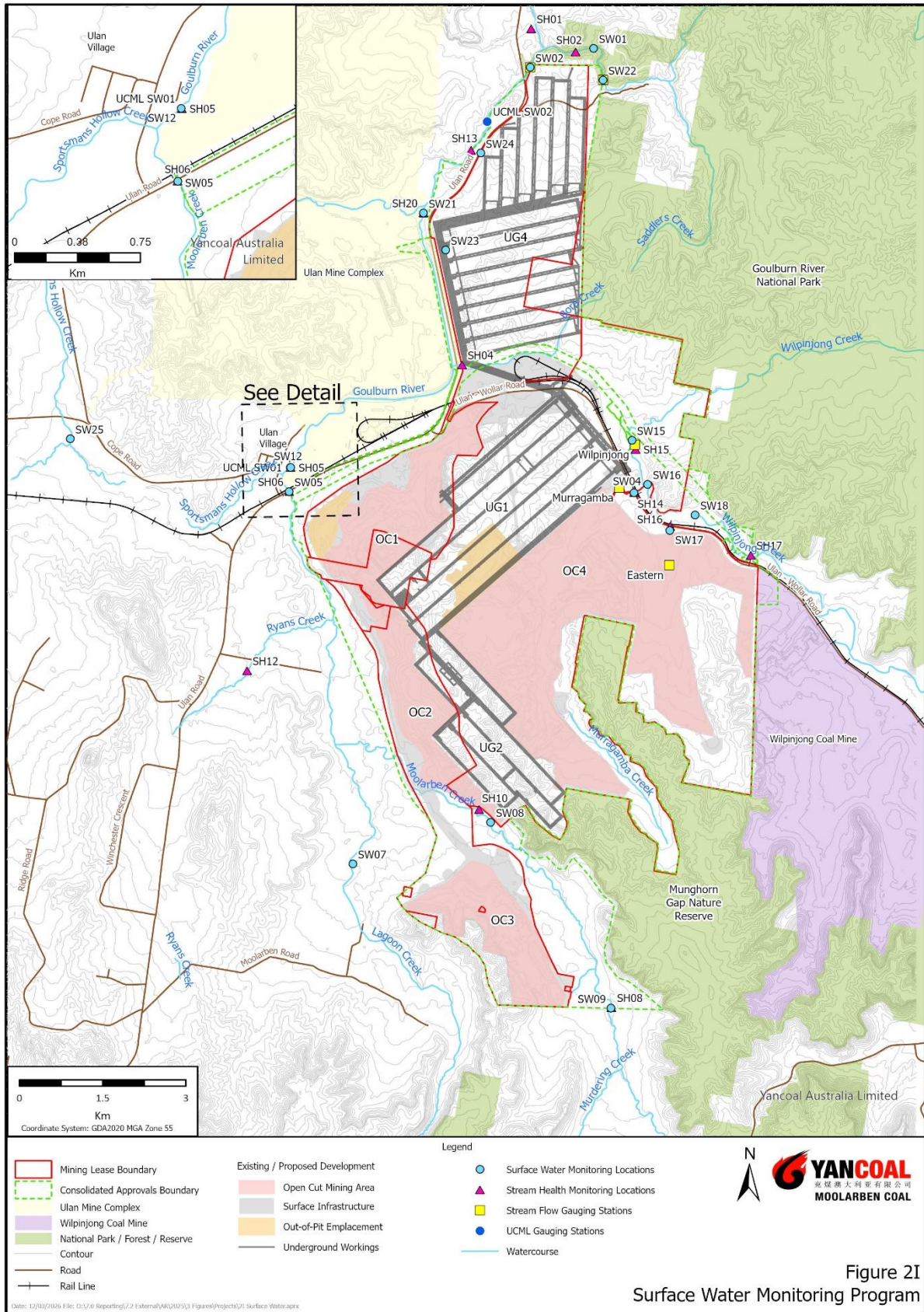


Figure 2-g MCO Remote Biodiversity Offset Monitoring Site Locations





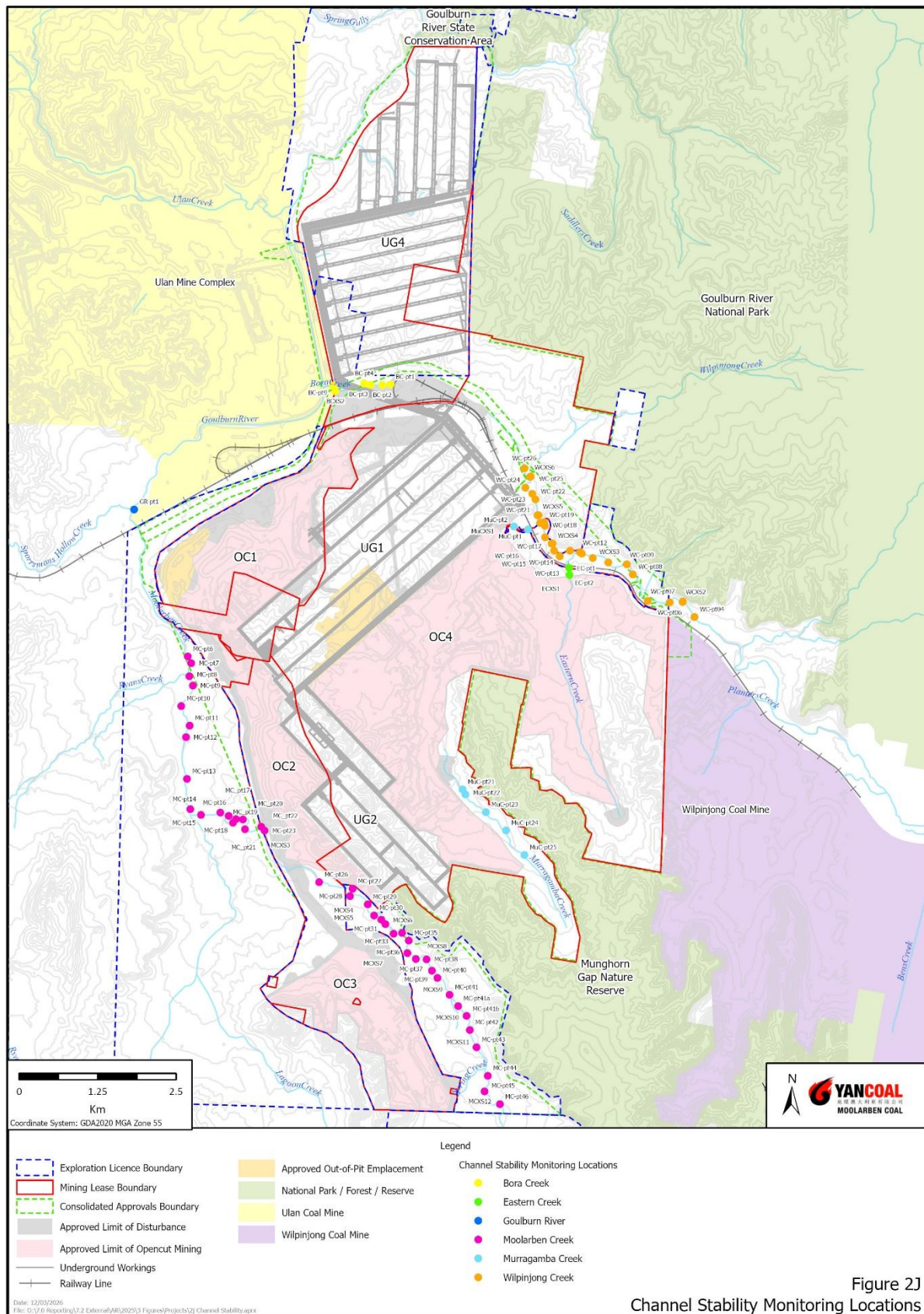


Figure 2-j Channel Stability Monitoring Locations

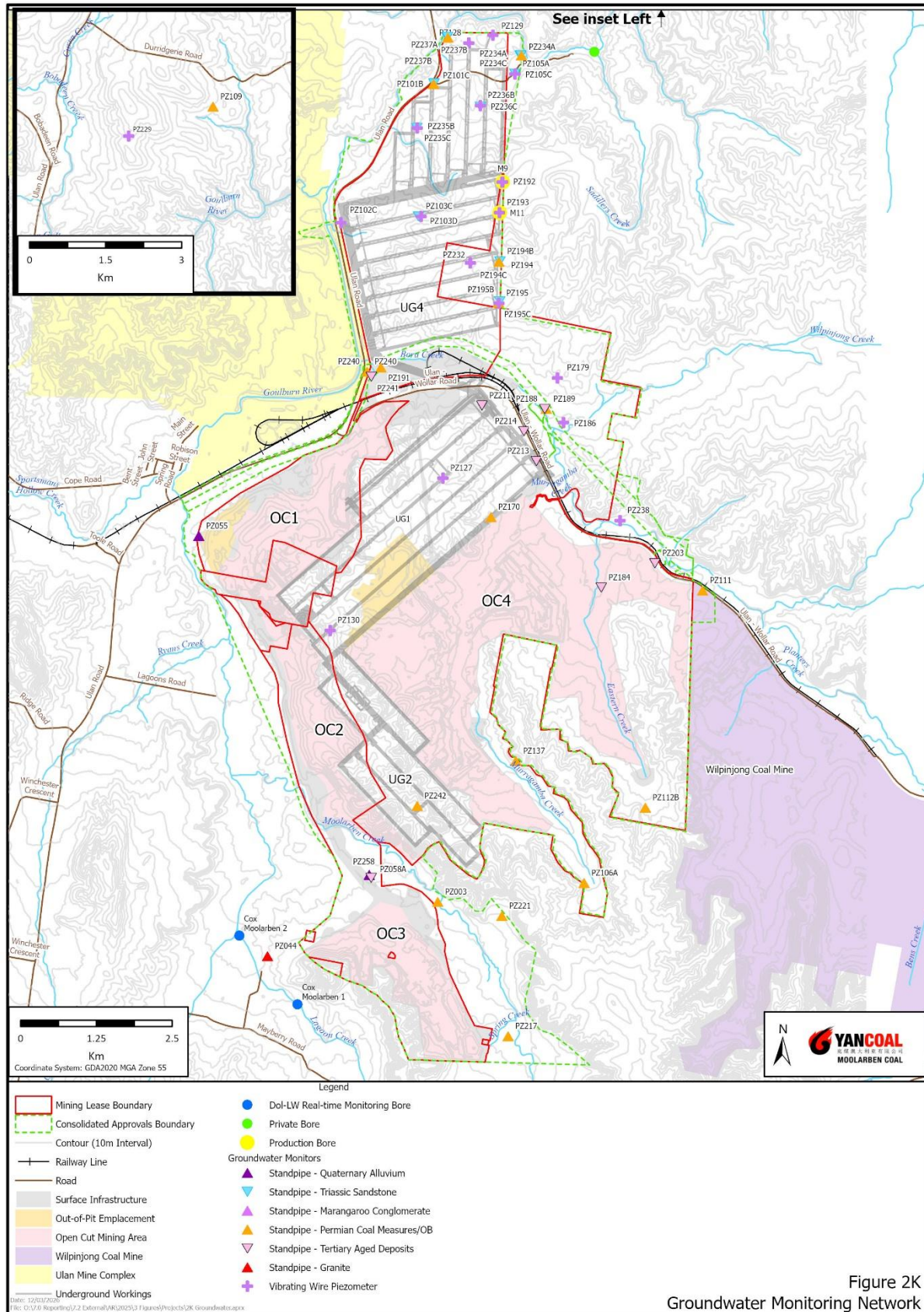


Figure 2-k Groundwater Monitoring Locations

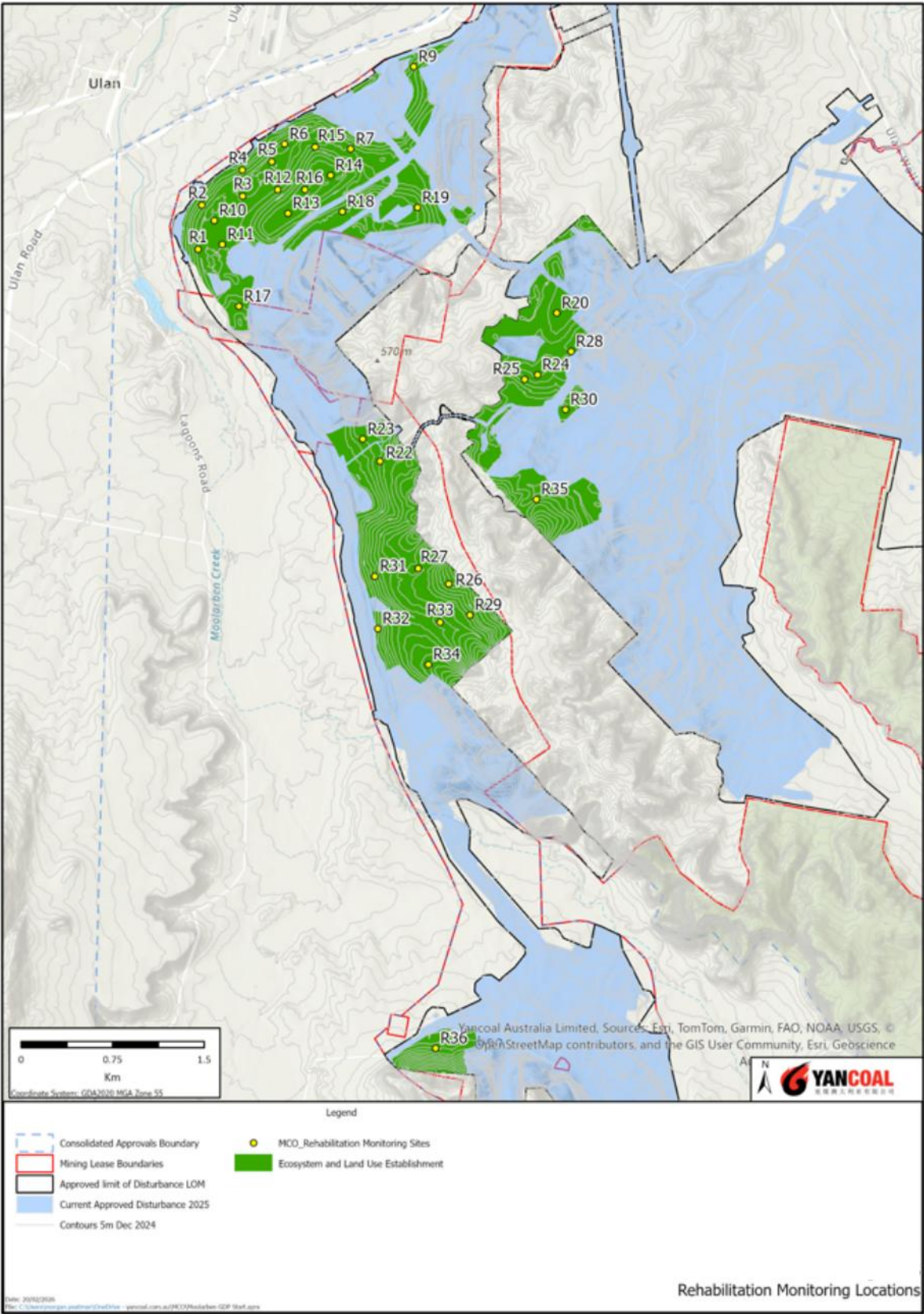


Figure 2-I Rehabilitation Monitoring Locations

APPENDIX 3. MONITORING DATA

APPENDIX 3A. DAILY METEOROLOGICAL DATA (WS03)

Date	Temperature (2m) (°C)		Temperature (10m) (°C)		Relative Humidity (%)	Rain (mm)
	Min	Max	Min	Max	Average	
1/01/2025	14	34.3	15	32.7	57.7	0
2/01/2025	14.5	26.6	15.9	25.8	67.2	0
3/01/2025	16.9	28.1	17.4	27.4	62.2	0
4/01/2025	13.4	33.6	14.8	32.5	70.7	5.2
5/01/2025	13.1	35.4	14.2	35	60.6	3
6/01/2025	14.3	36.4	15.5	35	53.2	0.8
7/01/2025	14.4	23.5	14.7	23.1	85.3	28.2
8/01/2025	13.5	24.7	14.1	24.4	77	12.4
9/01/2025	13.6	26.9	14.4	26.3	66.3	0
10/01/2025	17.7	28	18.2	27.5	72.4	0
11/01/2025	15.5	28.5	16.5	27.7	71.1	0
12/01/2025	14.8	28.2	16	27.4	76	7
13/01/2025	16	32.6	16.8	31.4	68.8	14
14/01/2025	16.6	34.9	17.6	33.6	57.6	0
15/01/2025	17.9	36.1	19	35.7	67.2	13.6
16/01/2025	12	24.9	16	25.6	76.6	9.4
17/01/2025	9.4	19.5	11.8	20.6	68.6	0.2
18/01/2025	13	24.8	15.3	24.7	61.6	0
19/01/2025	15.5	24.7	16.1	24.1	60.6	0
20/01/2025	8.7	29.1	9.7	28.7	60.9	0
21/01/2025	11.4	33.8	12.7	33	58.8	0
22/01/2025	14.8	36.6	16.2	35.3	53.2	0
23/01/2025	17.3	27.1	17.7	26.6	61.2	0
24/01/2025	14.7	32.5	16.1	31.2	58.1	0
25/01/2025	14.9	31.6	15.6	31.3	58	0
26/01/2025	14.5	33.3	15.8	32.9	64	0
27/01/2025	18.2	36.1	19.3	35.5	59.5	0
28/01/2025	19	38.8	20.7	37.7	51.5	0
29/01/2025	18.7	30.5	19	29.9	73.1	4.4
30/01/2025	18.7	30.4	19.1	29.9	74.7	0
31/01/2025	20.1	26.3	20.7	25.7	74.4	0
1/02/2025	18.7	28.2	19.4	27.3	68.6	0
2/02/2025	16.9	30.4	17.6	29.8	58.3	0
3/02/2025	14.4	32.2	15.7	31.5	61.2	0
4/02/2025	16.8	33.8	17.7	32.9	57.3	0
5/02/2025	17.9	36.6	18.5	34.7	59.7	3.6
6/02/2025	18	31.8	18.9	31	70	0.4
7/02/2025	15.1	34.2	16.1	33.3	60	0
8/02/2025	14.9	35.2	16.3	33.2	65.2	3.6
9/02/2025	15.5	33.1	16.4	31.8	72.9	8.4
10/02/2025	14	22.3	14.9	22.6	88.8	30.2
11/02/2025	12.9	21.8	14.9	24.5	81.3	6.2
12/02/2025	11	24.3	13.1	26.5	76	0
13/02/2025	15.2	29.6	17.3	29.8	73.1	0
14/02/2025	19.1	28.5	19.3	28.1	76.8	6.6
15/02/2025	14.2	24.8	16.6	25.9	60	0.2
16/02/2025	7.3	22.4	8.2	21.3	53	0
17/02/2025	6	24.3	7.2	23.8	62.1	0
18/02/2025	8.1	28.9	9.4	27.4	60.4	0
19/02/2025	8.9	30.3	10.4	28.7	62.9	0
20/02/2025	12.1	25.1	13.8	24.3	77.4	0
21/02/2025	16.1	27.1	16.7	26.5	66.1	0
22/02/2025	15.1	29.9	16.3	28.8	67.1	0
23/02/2025	13.5	32.6	14.8	30.5	65.1	0
24/02/2025	14.7	35.3	16.1	34	55.6	0
25/02/2025	19.9	29.7	20.2	28.7	68.3	0
26/02/2025	19	33.4	19.3	32.6	64.1	0
27/02/2025	18	36.4	19.2	35	56.1	0
28/02/2025	15.8	36.4	17.5	35.1	53	0
1/03/2025	14.1	36.7	15.5	35.3	51.2	0

Date	Temperature (2m) (°C)		Temperature (10m) (°C)		Relative Humidity (%)	Rain (mm)
	Min	Max	Min	Max	Average	
2/03/2025	15.5	36.3	17.2	35.1	55.4	0
3/03/2025	19.2	29.1	19.7	27.9	64	0
4/03/2025	13.9	29.1	15.2	27.8	63.7	0
5/03/2025	14.1	28.6	15.8	27.5	60.9	0
6/03/2025	18	25.8	18.6	25	64.1	0
7/03/2025	16.4	25.3	17.2	24.6	66.6	0
8/03/2025	17.2	27.2	17.8	26	68.4	0
9/03/2025	18.6	27.6	19.1	26.8	67.4	0
10/03/2025	16.1	23.7	16.9	22.9	80.8	0.8
11/03/2025	18.2	26.7	18.5	26	80.6	0
12/03/2025	17.7	25	17.9	24.6	76.8	0
13/03/2025	14.3	33.1	15.5	31.8	68.7	0
14/03/2025	14.3	36.3	15.7	34.5	57.3	0
15/03/2025	14.8	36.9	16.4	35.4	49.3	0
16/03/2025	15.8	34.8	17.2	33.1	46.9	0
17/03/2025	14.4	25.9	14.9	26.9	47.9	0
18/03/2025	13.2	26.5	13.7	25.3	62.8	0
19/03/2025	13.6	31.5	15	29.8	65.4	0
20/03/2025	15.5	31.8	16.6	30.6	61.2	0
21/03/2025	14.8	24.8	16.7	23.6	83.5	18.8
22/03/2025	14.3	29.5	14.9	28.4	78.4	0.4
23/03/2025	18.6	27.4	19.1	26.4	75	0
24/03/2025	19	26.2	19.3	25.7	76.5	0
25/03/2025	18.8	26.3	19.4	25.4	72.9	0
26/03/2025	17.7	24.3	18.1	23.8	66.8	0
27/03/2025	17.4	23.6	18.3	23.3	67.3	0
28/03/2025	15.6	22.4	16.1	22.1	75.5	7
29/03/2025	15.6	20.3	16	20.4	93.2	29.4
30/03/2025	13.7	25.7	14.8	27	79	1.6
31/03/2025	13.6	25.7	14.5	24.8	76.3	0
1/04/2025	9.5	22.8	10.9	21.7	74.6	0.4
2/04/2025	10.1	19.8	11.3	19.5	75.9	0
3/04/2025	6.1	25.9	7.2	24.8	69.8	0
4/04/2025	5.7	26.8	7	25.7	60.4	0
5/04/2025	7.7	23.5	10	22.7	52.3	0
6/04/2025	3.6	23.2	4.7	22.4	59.4	0
7/04/2025	4	24.5	5.1	23.6	59.4	0
8/04/2025	5.5	24.1	6.8	23.2	70.6	0
9/04/2025	8.9	24.5	10.8	23.6	75.9	0
10/04/2025	8.2	25.7	9.5	24.2	76.9	0
11/04/2025	10	28.3	11	27.1	68.9	0
12/04/2025	11	24.8	14.3	24.3	71	0
13/04/2025	12.6	25.5	14.9	24.7	73.3	0
14/04/2025	8.5	27.4	9.7	26.6	71.7	0
15/04/2025	9.4	22.6	10.7	22.3	67.6	0
16/04/2025	4.3	22.9	6	23	71.4	0
17/04/2025	5.3	24.1	6.5	24.1	77.2	0
18/04/2025	6.2	26.1	7.2	25.6	72.6	0
19/04/2025	5.3	26.4	6.8	26.2	66.4	0
20/04/2025	6	28.3	8.1	27.9	59.7	0
21/04/2025	11.9	22.5	12.6	21.3	58.3	0.4
22/04/2025	5.2	22.4	6.2	21.8	69	0
23/04/2025	11.8	22.9	13.4	22.4	78	0
24/04/2025	11.4	23.7	13.7	23.3	68.2	0
25/04/2025	10.7	23.1	12	22.6	79	0
26/04/2025	9.6	21.1	10.9	20.8	86.1	4.2
27/04/2025	12.4	15.7	13.4	16.2	93.9	8.2
28/04/2025	7.2	23.1	8.7	22.7	80	0
29/04/2025	13.4	23.8	14.3	22.8	71.2	2.2
30/04/2025	7.4	18.7	9.6	17.7	82.6	2.8
1/05/2025	6.4	19	8.5	18.4	68.1	0.2
2/05/2025	3.3	18.4	4.4	18	77.3	0
3/05/2025	7.2	19.7	9	19.2	80	0
4/05/2025	4.8	20.9	6.4	20.5	83.1	0
5/05/2025	9.1	22	10.5	22	82.9	0
6/05/2025	6.6	23.9	7.9	23.2	79.2	0

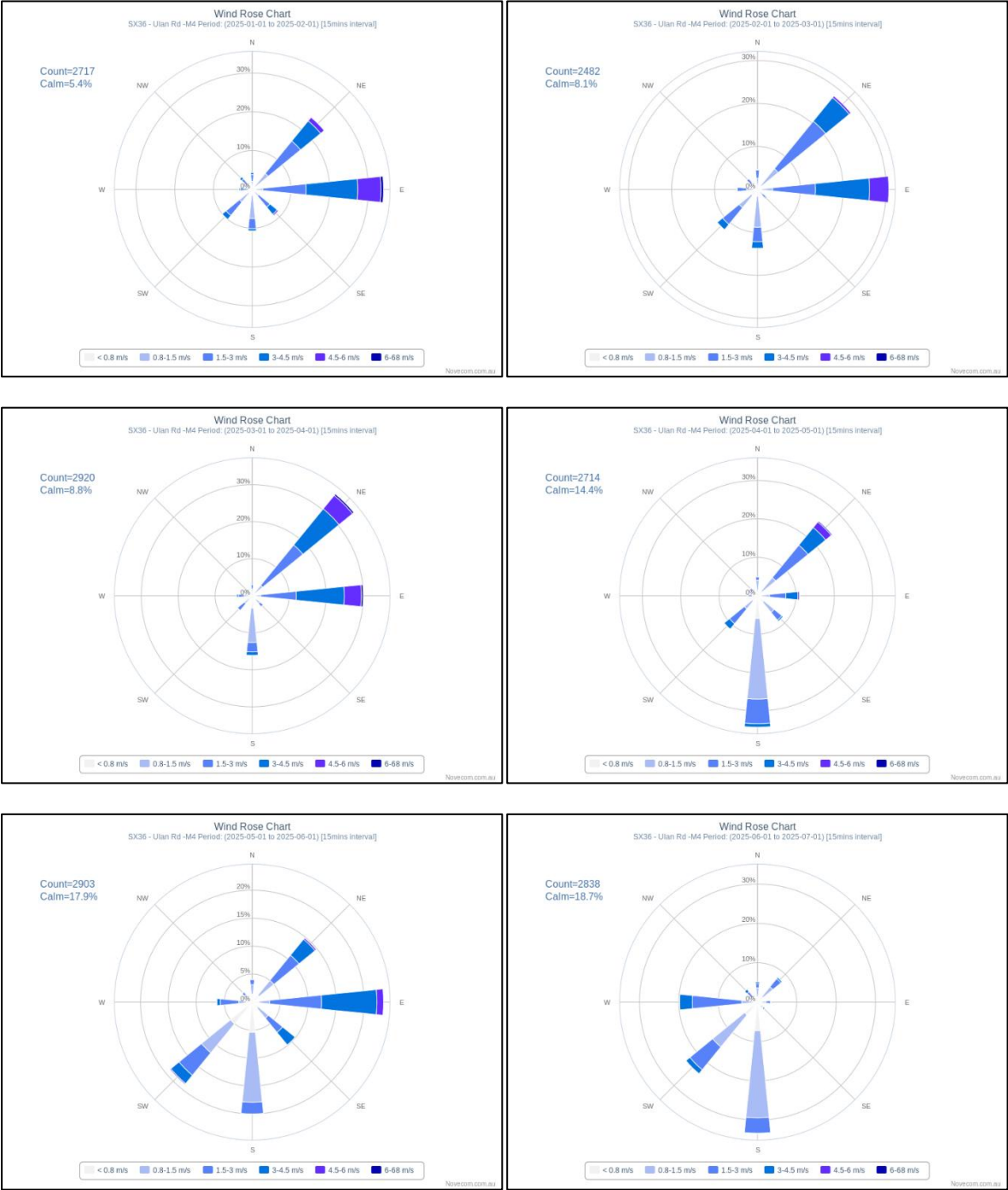
Date	Temperature (2m) (°C)		Temperature (10m) (°C)		Relative Humidity (%)	Rain (mm)
	Min	Max	Min	Max	Average	
7/05/2025	5	23.9	6.1	22.7	75.1	0
8/05/2025	5.1	22.5	6.7	22.3	64.3	0
9/05/2025	4.4	19.1	6.1	18.7	73.1	0
10/05/2025	10.1	19.5	11	18.8	74.2	0
11/05/2025	7.9	19.9	9.2	19.6	81.4	0
12/05/2025	10.5	21.2	12.8	20.9	78.4	0
13/05/2025	9	20.7	10.8	20.5	82.5	0
14/05/2025	9	22.4	10.9	21.8	79.1	0
15/05/2025	9.7	17.5	11	17.4	88.8	0.2
16/05/2025	9	20.4	10.3	20.1	85.4	0
17/05/2025	4.3	21.3	6.7	20.6	76	0.2
18/05/2025	4.1	16.9	5.9	16.4	73.2	0
19/05/2025	6.3	14.9	8.2	14.7	67.5	0.4
20/05/2025	11.5	16.2	11.9	16.2	66.5	0
21/05/2025	13.1	15.1	13.4	15.3	88.6	11.6
22/05/2025	13.6	15.7	14	16	96	22.2
23/05/2025	5.9	18	8.7	17.3	83.4	0.2
24/05/2025	4	17.8	5.1	17.6	76.6	0
25/05/2025	2.3	17.2	3.4	16.6	78.6	0
26/05/2025	4.9	12.9	5.9	13.5	93.3	21.6
27/05/2025	7.7	14.8	8.2	14.7	79	23.4
28/05/2025	6.2	15	7.6	14.6	74.1	0
29/05/2025	3.9	14	4.7	14	87.9	0
30/05/2025	4.7	16.6	5.7	16.6	84.8	0
31/05/2025	3.1	16.9	4.2	16.8	87.1	0.2
1/06/2025	2	17.2	3.4	17.2	89.7	0
2/06/2025	7.2	18.6	8.9	18.1	89.3	10.8
3/06/2025	6.5	17.9	8.7	17.3	82.6	1.4
4/06/2025	0.2	13.7	1.3	13.5	79.6	0
5/06/2025	-1.9	15.5	-0.8	15.2	80.2	0
6/06/2025	-1.5	16.1	-0.6	16.1	86.4	0
7/06/2025	1.7	15.4	3.2	14.9	76.3	0.2
8/06/2025	3.2	12	4.2	11.5	69.8	0
9/06/2025	0.4	7	1.6	7.4	94.5	4.4
10/06/2025	6.1	10.3	6.7	9.9	92.2	1
11/06/2025	0.9	11.6	2	11.4	86.4	0.2
12/06/2025	-2.1	13.6	-0.6	12.4	84.2	0
13/06/2025	0.3	13.6	1.1	13.1	82	0
14/06/2025	-1.9	14.3	-0.9	14.2	86.5	0
15/06/2025	-0.2	16	0.8	14.9	82.6	0.2
16/06/2025	-2.1	15.3	-1.1	14.9	83.3	0
17/06/2025	-1	14.9	0.4	14.3	79.4	0
18/06/2025	-2.1	14.7	-0.7	14.5	77.3	0
19/06/2025	-4.2	15.5	-3.1	15.1	82.3	0
20/06/2025	-4.2	16.3	-3	16.5	79	0
21/06/2025	-3.1	18.5	-1.9	18.1	80.4	0
22/06/2025	-1.9	18.3	-0.6	17.7	83.5	0
23/06/2025	1.2	20.3	2.6	20.1	86	0
24/06/2025	6.3	16.9	8.2	16.7	82.8	18.6
25/06/2025	4.3	12.7	5.2	12	73	4.2
26/06/2025	-1.5	12.3	-0.5	12.1	78	0.2
27/06/2025	-3.2	13.4	-2.2	13.3	84.1	0
28/06/2025	2.2	15.2	3.6	15.8	88.9	0
29/06/2025	1.1	15.7	2.2	14.9	91.9	0.2
30/06/2025	-0.4	15.4	0.6	15	86.8	0
1/07/2025	3.8	13.8	4.7	13.3	77.7	1
2/07/2025	5.7	14	6.2	14.1	79.4	4.4
3/07/2025	2.9	11.5	4.7	10.7	81.4	0
4/07/2025	1.9	14.9	3.3	14.4	89	0
5/07/2025	0.6	14.3	1.6	14.2	89	0
6/07/2025	2.4	19	3.6	18.6	80.5	1.2
7/07/2025	1.5	13.7	2.6	13.2	81.1	0.2
8/07/2025	0.6	14.8	2.1	14.3	80.3	0
9/07/2025	1.1	18.4	2.5	18.3	67.3	0
10/07/2025	5.9	12.2	6.5	12.7	59	0
11/07/2025	0.8	13.2	2.3	12.4	75.7	0

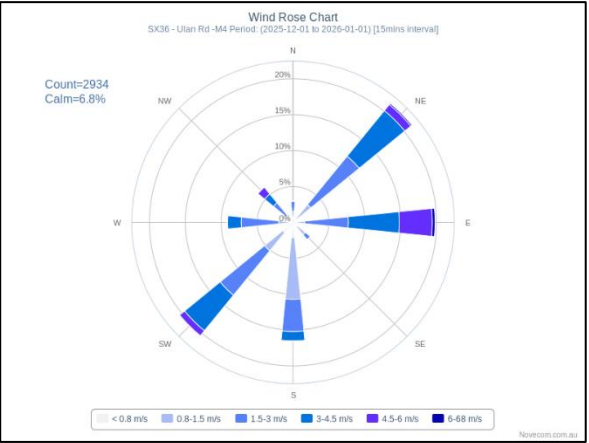
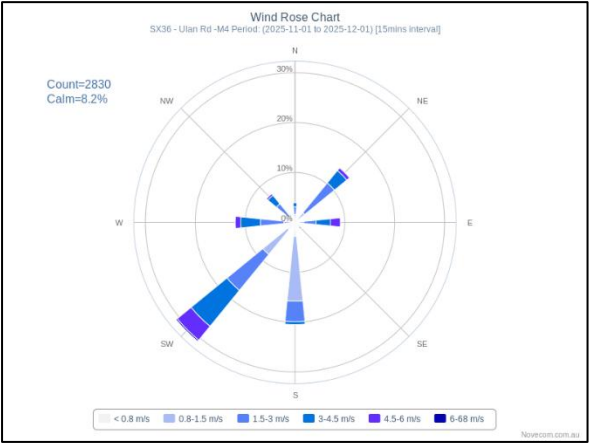
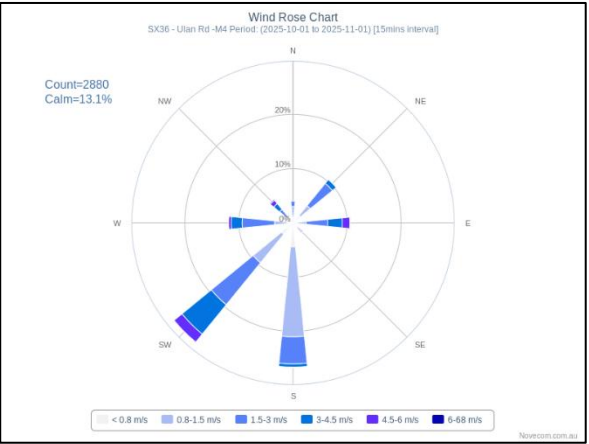
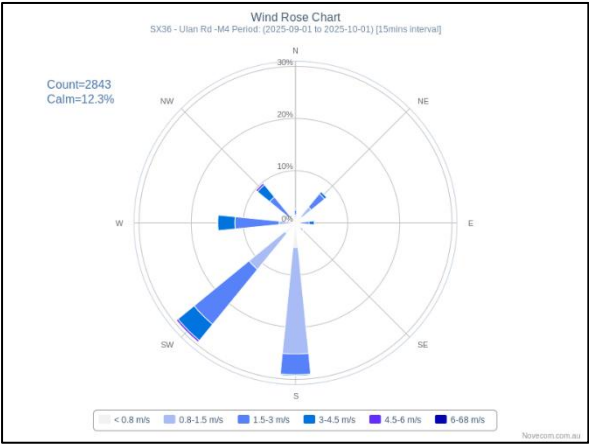
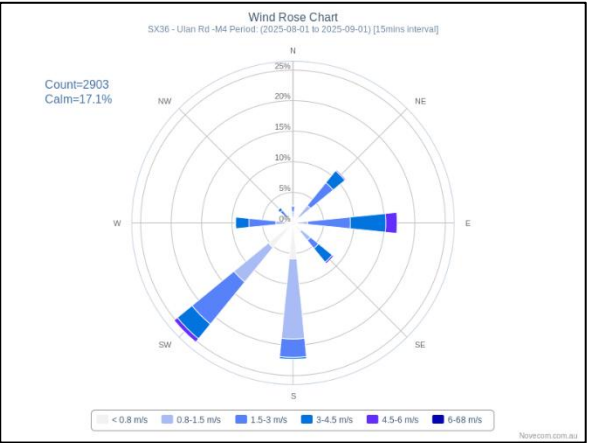
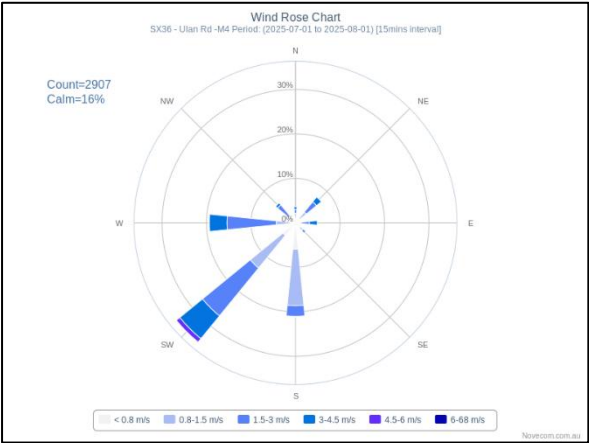
Date	Temperature (2m) (°C)		Temperature (10m) (°C)		Relative Humidity (%)	Rain (mm)
	Min	Max	Min	Max	Average	
12/07/2025	1.3	15.6	2.9	15.1	80.5	0.2
13/07/2025	-1.4	14.8	-0.3	14.4	77.9	0
14/07/2025	-0.2	15	3.5	14.3	65.5	0
15/07/2025	-0.4	9.6	0.8	9.5	93.2	1.4
16/07/2025	-1.8	13	-1.4	12.7	87.2	0.2
17/07/2025	-4.7	14.7	-3.7	14.2	74.3	0
18/07/2025	0.5	15.4	2	15.4	73.8	0
19/07/2025	-2.3	15.8	-1.1	15.3	77.6	0.2
20/07/2025	-4.4	14.5	-2.3	14.6	75.4	0
21/07/2025	-0.9	16.2	0.5	16.3	85.5	0
22/07/2025	4.7	17.5	8.1	17.4	81.6	7.2
23/07/2025	1.4	15.1	3.8	14	81	2.6
24/07/2025	-1.8	13.1	-0.8	12.6	80.5	0
25/07/2025	-3.9	12.7	-2.7	12.6	70.7	0
26/07/2025	6.6	14.3	7.2	14.4	88.1	20
27/07/2025	7.1	10.5	7.8	10.7	88.8	5.8
28/07/2025	7	10.3	7.3	10.2	82.6	0.4
29/07/2025	5.2	14.5	5.8	13.9	72	0
30/07/2025	6	8.2	6.5	8.4	96.6	14.4
31/07/2025	3.3	13.2	4.3	12.8	83.9	0.6
1/08/2025	0.2	13.5	1.3	13.1	89.3	1.6
2/08/2025	4.8	11.9	5.5	12.1	82.7	1
3/08/2025	6.7	17.2	8.4	17.1	71.1	0
4/08/2025	3.9	16.4	5.9	16.3	85.3	0
5/08/2025	5.3	18.7	8.2	18.2	84.8	0.2
6/08/2025	1.1	15.9	2.3	15.3	75.1	0
7/08/2025	-0.7	13.9	0.4	13.6	84.7	0.2
8/08/2025	8.1	13	9.8	13.1	72.4	0
9/08/2025	5.1	15.8	6.2	15.6	78	0
10/08/2025	2.5	15.7	4.2	15.4	84	0
11/08/2025	0	14	1.2	14	86.1	0.2
12/08/2025	1.4	16.3	2.8	16.3	83	0
13/08/2025	-0.8	16.1	0.2	15	78.3	0.2
14/08/2025	2.6	16.6	3.9	16.2	78	0
15/08/2025	0.6	17.5	1.8	16.9	79.6	0
16/08/2025	1.3	15.3	3.7	14.6	72.6	0
17/08/2025	-2.9	12.9	-2	12.3	73.5	0
18/08/2025	-3.8	14.3	-2.7	14	70.1	0
19/08/2025	1.7	14.6	3.6	14.3	75.2	0
20/08/2025	3.4	11.2	4.5	11.2	94	10.4
21/08/2025	6.9	14	7.7	13.5	91.8	13.2
22/08/2025	6.2	18	6.8	17.3	82.2	0
23/08/2025	4.3	19.1	5.7	18.6	70.7	0
24/08/2025	0.4	17.4	1.6	16.7	74.2	0
25/08/2025	1.5	21.3	2.5	21	76.7	0
26/08/2025	3.7	22.7	4.9	22.3	77.1	0
27/08/2025	9.5	16.6	10.6	17.2	72.7	0.2
28/08/2025	4.4	15.4	6	14.7	66.4	0.2
29/08/2025	4	16.8	5	16.1	57.9	1.2
30/08/2025	0.5	10.7	2.6	10.5	76.9	2
31/08/2025	-3.1	17.9	-2.1	17.1	72.1	0
1/09/2025	-1.3	18.9	0	18.1	28.8	0.2
2/09/2025	0	18.8	1.5	18.3	29.3	0
3/09/2025	-0.5	18.6	0.7	17.8	32.8	0
4/09/2025	1.1	20.7	2.4	19.9	24.1	0
5/09/2025	0.7	20	1.8	19.6	29.8	0
6/09/2025	6.8	20.3	9.4	20	41.6	0
7/09/2025	3.4	22	4.9	21.4	40.4	0
8/09/2025	6.5	23.6	7.8	23.3	44.5	0
9/09/2025	11	20.4	13.2	20	59.5	10.8
10/09/2025	6.8	18.7	7.1	18.9	58.7	33
11/09/2025	6.3	15.2	6.7	14.6	54.9	0.8
12/09/2025	1.3	17.1	2	16.2	39.8	0.2
13/09/2025	0.7	19.6	1.6	18.5	25.1	0
14/09/2025	0.9	21	1.8	20.4	25.7	0
15/09/2025	2.2	24	3.4	23.4	29.3	0

Date	Temperature (2m) (°C)		Temperature (10m) (°C)		Relative Humidity (%)	Rain (mm)
	Min	Max	Min	Max	Average	
16/09/2025	9.2	24.8	11.3	24.5	37.6	0
17/09/2025	4.4	20.8	5.7	19.8	43.2	0
18/09/2025	0.3	22	1.4	21.5	19.2	0
19/09/2025	1.4	24	2.4	23.2	24.7	7.2
20/09/2025	3.6	18.5	6	17.7	42.8	4.4
21/09/2025	0.9	17.7	2.1	17	44.6	0
22/09/2025	2.7	19.2	4.2	18.4	38.3	0
23/09/2025	-0.3	17.7	0.8	16.7	27.9	0
24/09/2025	3.3	20.1	5.1	19.4	40	0
25/09/2025	3.5	20.6	5.4	19.8	35.9	0
26/09/2025	5.2	25.5	7.2	25.1	20	0
27/09/2025	8.2	26.6	10.7	25.9	19.3	0
28/09/2025	9.1	28.6	11.2	27.9	21.2	0
29/09/2025	7.7	24.1	9.6	23.6	26.8	0
30/09/2025	5.3	29.6	6.8	29.1	19.5	0
1/10/2025	4.5	22.7	6.9	23.6	46.9	0
2/10/2025	1.8	21	3.6	20.1	57.5	0
3/10/2025	1.2	20.1	3.5	19.3	56.6	0
4/10/2025	3.1	24.9	4.6	24.4	58.5	0
5/10/2025	3.2	27.8	4.6	27.3	56.5	0
6/10/2025	8.7	29.5	11.9	28.6	43.5	0
7/10/2025	14.3	21.7	15.1	21.3	68.9	0
8/10/2025	9.7	31.9	11.2	31.6	50.9	0
9/10/2025	13.7	21.9	15.7	22.6	77.8	13.4
10/10/2025	9.2	25.7	10.3	25	72.5	0
11/10/2025	6.2	26.5	7.3	25.8	57.4	0
12/10/2025	5.3	27.2	7	26.2	66.4	3.2
13/10/2025	7.6	21.5	9	21.2	72.4	0.2
14/10/2025	6.2	23.5	7.3	23.1	67.5	0
15/10/2025	3.3	28	4.8	27.2	55.5	0
16/10/2025	5.9	30.2	7.9	29.5	59.9	0
17/10/2025	12.9	31.7	14.5	30.9	67.3	0.8
18/10/2025	14.4	27.6	15.5	27	67.3	0
19/10/2025	8.3	29.2	9.7	28.7	59.6	0
20/10/2025	11	34.2	12.2	33.2	57.1	0
21/10/2025	14.2	34.4	15.7	33.7	58	0
22/10/2025	14.4	33.8	15.4	33.5	59.1	0.4
23/10/2025	7.1	27.2	8.4	26.6	49.3	0
24/10/2025	6.3	23.9	7.5	22.8	54.8	0
25/10/2025	6.4	19.6	8.3	19.5	73.3	0
26/10/2025	6.3	26.3	7.6	26.1	60.3	0
27/10/2025	8.8	24.8	10.4	23.7	53.6	0
28/10/2025	8.6	12.9	9.1	13.3	85.6	12.8
29/10/2025	8.9	18.6	9.4	18.1	89.7	2.2
30/10/2025	11.8	25.6	13.5	24.6	66.3	0
31/10/2025	10.9	28	12.6	27.1	65.1	0
1/11/2025	15.1	25.9	16.3	25.2	65.6	1
2/11/2025	11.5	27.4	12.8	27.1	70.7	0
3/11/2025	12.9	33.3	13.3	32.7	67.5	0.6
4/11/2025	8.4	18.9	10	18.5	59.7	1.4
5/11/2025	2.9	23.4	4.5	22.5	51.4	0
6/11/2025	2.4	29.1	4.3	28.5	47.8	0
7/11/2025	13.1	30.8	14.1	30.2	57.4	1.2
8/11/2025	14.5	31.3	15.7	30.8	61.6	0.4
9/11/2025	9.2	22.6	9.7	21.7	46.1	0
10/11/2025	6.3	25	7.7	24.2	58.6	0
11/11/2025	4.2	25.5	5.8	24.2	40.7	0
12/11/2025	0.7	23	2.5	22	37.3	0
13/11/2025	1.5	27.8	2.9	27	35.1	0
14/11/2025	9.3	31	11.4	29.7	34.4	0
15/11/2025	15.3	30.8	15.8	29.7	69.3	0.8
16/11/2025	15.7	28.7	16.9	27.7	44.2	0
17/11/2025	9.2	21.7	11.6	20.9	38.1	0
18/11/2025	4.7	28.7	6	27.3	45.6	0
19/11/2025	7.6	32.3	9.3	31.2	41.4	0
20/11/2025	11.6	33.2	13.7	32.4	43.6	0

Date	Temperature (2m) (°C)		Temperature (10m) (°C)		Relative Humidity (%)	Rain (mm)
	Min	Max	Min	Max	Average	
21/11/2025	16.2	24.8	16.5	24.1	67	0
22/11/2025	16	22.8	16.4	22.5	75.6	0.8
23/11/2025	15.5	31.6	17	30.9	60.8	6
24/11/2025	12.3	36.3	14.1	35.1	52.8	0
25/11/2025	15.9	36.7	16.4	35.6	57.2	0.4
26/11/2025	15	33.9	16.4	33.5	57.3	5.4
27/11/2025	10.3	29.4	11.9	28	43.8	0
28/11/2025	6.2	31.2	7.8	29.6	39.8	0
29/11/2025	11.6	29.5	13.3	28.6	49.3	0.6
30/11/2025	6.6	25.3	8.1	23.8	45.5	0
1/12/2025	4.6	21.7	7	20.3	51.1	1.4
2/12/2025	6.4	22.2	7	21.1	57.9	0.4
3/12/2025	4.2	28.7	6	27.1	46.2	0
4/12/2025	7.3	33	9.2	31.6	34.3	0
5/12/2025	10.9	35.8	13.5	34.3	34.7	0
6/12/2025	14.9	38.3	18.4	37.2	34.7	0
7/12/2025	17.1	28.9	17.5	27.4	45.6	0
8/12/2025	14.8	33.2	16.3	31.8	49.1	0
9/12/2025	10.3	36.6	12.1	35	31.2	0
10/12/2025	19.4	34.9	19.8	34	55.3	1
11/12/2025	15	25.1	15	24.4	80.8	14
12/12/2025	14.2	25.8	15.3	25.2	81	1.4
13/12/2025	13.7	31.7	14.7	30.9	76.4	6.8
14/12/2025	16.9	31.1	17.5	30	63.8	0.2
15/12/2025	10.9	32.5	12.5	30.7	50.9	0
16/12/2025	17.2	27.6	17.5	26.8	65.3	0
17/12/2025	16.4	33	16.7	32.5	59.1	0
18/12/2025	14.9	37.5	16.1	35.8	50.5	0
19/12/2025	17.8	38.8	19.5	37.1	44.7	7.2
20/12/2025	19.3	36.7	20.2	35.1	52	0
21/12/2025	20.9	39	21.9	37.9	50	0.8
22/12/2025	18.1	31.5	19.7	30.1	58.3	0
23/12/2025	12.7	31.4	14.3	30.1	45.4	0
24/12/2025	14.5	32.8	15.6	31.3	43.2	0
25/12/2025	9.7	31	11.8	29.4	33.8	0
26/12/2025	11.8	24.6	12.3	23.4	62.1	0
27/12/2025	9.1	28	10.5	26.5	46	0
28/12/2025	9.7	26.5	10.8	25.8	49.9	0
29/12/2025	9.9	29	11.4	28.3	47.4	0
30/12/2025	11.6	35	12.2	33.3	42.6	0
31/12/2025	11.6	27.8	13	27.3	47.5	4.2

Figure 3-a Monthly Wind Rose (WS03)





Appendix 3B. NOISE MONITORING RESULTS

Environmental Noise Monitoring – January 2025

EPL ID	Location	Site ID	Monitoring Type	Frequency	Measured Level ^{1,2,3} LAeq dB (15min)	Measured Level ^{1,2,3} LA1,1dB (1min)	Noise Criteria ⁴	Monitoring Completed during the period	Exceedance (Yes/No) ⁵
44	Ulan Public School	NA1	Compliance - Attended	Monthly	IA	-	Daytime (07:00 – 18:00) LAeq, 15minute: 35 dB	Yes	NA
N/A	Cope Road (Receiver 258)	NA11	Management - Attended	Quarterly	-	-	-	-	-
N/A	Lagoons Road	NA2	Validation - Attended	Annually	-	-	-	-	-
42	Winchester Crescent	NA12	Compliance/Validation - Attended	Monthly	IA	IA	Night time (22:00 – 07:00) LAeq, 15minute: 35 dB LA1, 1minute: 45 dB	Yes	No
N/A	Upper Ridge Road (Receiver 176)	NA3	Validation - Attended	Annually	-	-	-	-	-
41	Lower Ridge Road	NA6	Compliance - Attended	Monthly	<20	<25	Night time (22:00 – 07:00) LAeq, 15minute: 37 dB LA1, 1minute: 45 dB	Yes	No
N/A	Moolarben Road (Receiver 28)	NA10	Validation - Attended	Annually	-	-	-	-	-
46	Goulburn River National Park	GRNP	Compliance - Attended	Annually	-	-	All periods LAeq, 15minute: 50 dB	-	-
46	Munghorn Gap Nature Reserve	MGNR	Compliance - Attended	Annually	-	-	All periods LAeq, 15minute: 50 dB	-	-

1. NA indicates meteorological conditions during the measurement did not correspond with any modelled meteorological conditions and were not applicable for comparison.

2. IA is Inaudible. When site only noise is noted as IA, there was no noise from the source of interest audible at the monitoring location.

3. Site-only noise levels attributed to MCO, including modifying factors where applicable.

4. As detailed in the EPL, noise emission limits apply under all meteorological conditions except:

- Wind speeds greater than 3 m/s at 10 metres above ground level; or
- Stability class F temperature inversion conditions, and wind speeds greater than 2 m/s at 10 metres above ground level; or
- Stability class G temperature inversions.

5. NA in last column means atmospheric conditions outside those specified in EPL, therefore criterion was not applicable.

Environmental Noise Monitoring – February 2025

EPL ID	Location	Site ID	Monitoring Type	Frequency	Measured Level ^{3,4,5} LAeq dB (15min)	Measured Level ^{3,4,5} LA1,1dB (1min)	Noise Criteria ¹	Monitoring Completed during the period	Exceedance (Yes/No) ¹
44	Ulan Public School	NA1	Compliance - Attended	Monthly	NM ⁶	-	Daytime (07:00 – 18:00) LAeq, 15minute: 35 dB	Yes	N/A ²
N/A	Cope Road (Receiver 258)	NA11	Management - Attended	Quarterly	<25	28	Night time (22:00 – 07:00) LAeq, 15minute: 40 dB	Yes	No
N/A	Lagoons Road	NA2	Validation - Attended	Annually	-	-	-	-	-
42	Winchester Crescent	NA12	Compliance/Validation - Attended	Monthly	<25	<25	Night time (22:00 – 07:00) LAeq, 15minute: 35 dB LA1, 1minute: 45 dB	Yes	No
N/A	Upper Ridge Road (Receiver 176)	NA3	Validation - Attended	Annually	-	-	-	-	-
41	Lower Ridge Road	NA6	Compliance - Attended	Monthly	26	30	Night time (22:00 – 07:00) LAeq, 15minute: 37 dB LA1, 1minute: 45 dB	Yes	No
N/A	Moolarben Road (Receiver 28)	NA10	Validation - Attended	Annually	-	-	-	-	-
46	Goulburn River National Park	GRNP	Compliance - Attended	Annually	-	-	All periods LAeq, 15minute: 50 dB	-	-
46	Munghorn Gap Nature Reserve	MGNR	Compliance - Attended	Annually	-	-	All periods LAeq, 15minute: 50 dB	-	-

1. Noise limits are adjusted by +5 dB during 'very noise-enhancing meteorological conditions' in accordance with the NPfI.

2. Ulan School was in recess and not in use, therefore noise limits were not applicable in accordance with the consents.

3. Site-only LAeq, 15minute, includes modifying factor penalties, if applicable

4. Site-only LAeq, 15minute based on measured site-only LAmax

5. Where site-only noise levels are very low or are masked by other sources and are at least 5 dB lower than relevant limits, then a maximum estimate maybe be provided such as "<20 dB".

6. Not Measurable. If site noise is noted as NM, this means some noise was audible but could not be quantified.

Environmental Noise Monitoring – March 2025

EPL ID	Location	Site ID	Monitoring Type	Frequency	Measured Level ^{3,4,5} LAeq dB (15min)	Measured Level ^{3,4,5} LA1,1dB (1min)	Noise Criteria ¹	Monitoring Completed during the period	Exceedance (Yes/No) ¹
44	Ulan Public School	NA1	Compliance - Attended	Monthly	1A	-	Daytime (07:00 – 18:00) LAeq, 15minute: 35 dB	Yes	N/A ²
N/A	Cope Road (Receiver 258)	NA11	Management - Attended	Quarterly	-	-	-	-	-
N/A	Lagoons Road	NA2	Validation - Attended	Annually	-	-	-	-	-
42	Winchester Crescent	NA12	Compliance/Validation - Attended	Monthly	26	30	Night time (22:00 – 07:00) LAeq, 15minute: 35 dB LA1, 1minute: 45 dB	Yes	No
N/A	Upper Ridge Road (Receiver 176)	NA3	Validation - Attended	Annually	-	-	-	-	-
41	Lower Ridge Road	NA6	Compliance - Attended	Monthly	28	30	Night time (22:00 – 07:00) LAeq, 15minute: 37 dB LA1, 1minute: 45 dB	Yes	No
N/A	Moolarben Road (Receiver 28)	NA10	Validation - Attended	Annually	-	-	-	-	-
46	Goulburn River National Park	GRNP	Compliance - Attended	Annually	-	-	All periods LAeq, 15minute: 50 dB	-	-
46	Munghorn Gap Nature Reserve	MGNR	Compliance - Attended	Annually	-	-	All periods LAeq, 15minute: 50 dB	-	-

- Noise limits are adjusted by +5 dB during 'very noise-enhancing meteorological conditions' in accordance with the NPfI.
- Ulan School was in recess and not in use, therefore noise limits were not applicable in accordance with the Consents.
- Site-only LAeq, 15minute, includes modifying factor penalties, if applicable
- Site-only LA1, 1minute based on measured site-only LAmax
- Where site-only noise levels are very low or are masked by other sources and are at least 5 dB lower than relevant limits, then a maximum estimate maybe be provided such as "<20 dB".

Environmental Noise Monitoring – April 2025

EPL ID	Location	Site ID	Monitoring Type	Frequency	Measured Level ^{3,4,5} LAeq dB (15min)	Measured Level ^{3,4,5} LA1,1dB (1min)	Noise Criteria ¹	Monitoring Completed during the period	Exceedance (Yes/No) ¹
44	Ulan Public School	NA1	Compliance - Attended	Monthly	30	-	Daytime (07:00 – 18:00) LAeq, 15minute: 35 dB	Yes	N/A ²
N/A	Cope Road (Receiver 258)	NA11	Management - Attended	Quarterly	-	-	Night time (22:00 – 07:00) LAeq, 15minute: 40 dB	-	No
N/A	Lagoons Road	NA2	Validation - Attended	Annually	-	-	-	-	-
42	Winchester Crescent	NA12	Compliance/Validation - Attended	Monthly	29	38	Night time (22:00 – 07:00) LAeq, 15minute: 35 dB LA1, 1minute: 45 dB	Yes	No
N/A	Upper Ridge Road (Receiver 176)	NA3	Validation - Attended	Annually	-	-	-	-	-
41	Lower Ridge Road	NA6	Compliance - Attended	Monthly	27	30	Night time (22:00 – 07:00) LAeq, 15minute: 37 dB LA1, 1minute: 45 dB	Yes	No
N/A	Moolarben Road (Receiver 28)	NA10	Validation - Attended	Annually	-	-	-	-	-
46	Goulburn River National Park	GRNP	Compliance - Attended	Annually	-	-	All periods LAeq, 15minute: 50 dB	-	-
46	Munghorn Gap Nature Reserve	MGNR	Compliance - Attended	Annually	-	-	All periods LAeq, 15minute: 50 dB	-	-

- Noise limits are adjusted by +5 dB during 'very noise-enhancing meteorological conditions' in accordance with the NPfI.
- Ulan School was in recess and not in use, therefore noise limits were not applicable in accordance with the consents.
- Site-only LAeq, 15minute, includes modifying factor penalties, if applicable
- Site-only LA1, 1minute based on measured site-only LAmax
- Where site-only noise levels are very low or are masked by other sources and are at least 5 dB lower than relevant limits, then a maximum estimate maybe be provided such as "<20 dB".

Environmental Noise Monitoring – May 2025

EPL ID	Location	Site ID	Monitoring Type	Frequency	Measured Level ^{3,4,5} LAeq dB (15min)	Measured Level ^{3,4,5} LA1,1dB (1min)	Noise Criteria ¹	Monitoring Completed during the period	Exceedance (Yes/No) ¹
44	Ulan Public School	NA1	Compliance - Attended	Monthly	34	-	Daytime (07:00 – 18:00) LAeq, 15minute: 35 dB	Yes	N/A ²
N/A	Cope Road (Receiver 258)	NA11	Management - Attended	Quarterly	32	37	-	Yes	No
N/A	Lagoons Road	NA2	Validation - Attended	Annually	-	-	-	-	-
42	Winchester Crescent	NA12	Compliance/Validation - Attended	Monthly	30	33	Night time (22:00 – 07:00) LAeq, 15minute: 35 dB LA1, 1minute: 45 dB	Yes	No
N/A	Upper Ridge Road (Receiver 176)	NA3	Validation - Attended	Annually	-	-	-	-	-
41	Lower Ridge Road	NA6	Compliance -Attended	Monthly	31	35	Night time (22:00 – 07:00) LAeq, 15minute: 37 dB LA1, 1minute: 45 dB	Yes	No
N/A	Moolarben Road (Receiver 28)	NA10	Validation - Attended	Annually	-	-	-	-	-
46	Goulburn River National Park	GRNP	Compliance -Attended	Annually	-	-	All periods LAeq, 15minute: 50 dB	-	-
46	Munghorn Gap Nature Reserve	MGNR	Compliance -Attended	Annually	-	-	All periods LAeq, 15minute: 50 dB	-	-

- Noise limits are adjusted by +5 dB during 'very noise-enhancing meteorological conditions' in accordance with the NPfI.
- Ulan School was in recess and not in use, therefore noise limits were not applicable in accordance with the consents.
- Site-only LAeq, 15minute, includes modifying factor penalties, if applicable
- Site-only LA1, 1minute based on measured site-only LAmax
- Where site-only noise levels are very low or are masked by other sources and are at least 5 dB lower than relevant limits, then a maximum estimate maybe be provided such as "<20 dB".

Environmental Noise Monitoring – June 2025

EPL ID	Location	Site ID	Monitoring Type	Frequency	Measured Level ^{3,4,5,6} LAeq dB (15min)	Measured Level ^{3,4,5} LA1,1dB (1min)	Noise Criteria ¹	Monitoring Completed during the period	Exceedance (Yes/No) ¹
44	Ulan Public School	NA1	Compliance - Attended	Monthly	IA	-	Daytime (07:00 – 18:00) LAeq, 15minute: 35 dB	Yes	N/A ²
N/A	Cope Road (Receiver 258)	NA11	Management - Attended	Quarterly	-	-	-	-	-
N/A	Lagoons Road	NA2	Validation - Attended	Annually	-	-	-	-	-
42	Winchester Crescent	NA12	Compliance/Validation - Attended	Monthly	28	30	Night time (22:00 – 07:00) LAeq, 15minute: 35 dB LA1, 1minute: 45 dB	Yes	No
N/A	Upper Ridge Road (Receiver 176)	NA3	Validation - Attended	Annually	-	-	-	-	-
41	Lower Ridge Road	NA6	Compliance -Attended	Monthly	26	28	Night time (22:00 – 07:00) LAeq, 15minute: 37 dB LA1, 1minute: 45 dB	Yes	No
N/A	Moolarben Road (Receiver 28)	NA10	Validation - Attended	Annually	-	-	-	-	-
46	Goulburn River National Park	GRNP	Compliance -Attended	Annually	-	-	All periods LAeq, 15minute: 50 dB	-	-
46	Munghorn Gap Nature Reserve	MGNR	Compliance -Attended	Annually	-	-	All periods LAeq, 15minute: 50 dB	-	-

- Noise limits are adjusted by +5 dB during 'very noise-enhancing meteorological conditions' in accordance with the NPfI.
- Ulan School was in recess and not in use, therefore noise limits were not applicable in accordance with the consents.
- Site-only LAeq, 15minute, includes modifying factor penalties, if applicable
- Site-only LA1, 1minute based on measured site-only LAmax
- Where site-only noise levels are very low or are masked by other sources and are at least 5 dB lower than relevant limits, then a maximum estimate maybe be provided such as "<20 dB".
- IA is Inaudible. When site only noise is noted as IA, there was no noise from the source of interest audible at the monitoring location.

Environmental Noise Monitoring – July 2025

EPL ID	Location	Site ID	Monitoring Type	Frequency	Measured Level ^{3,4,5,6} LAeq dB (15min)	Measured Level ^{3,4,5,6} LA1,1dB (1min)	Noise Criteria ¹	Monitoring Completed during the period	Exceedance (Yes/No) ¹
44	Ulan Public School	NA1	Compliance - Attended	Monthly	IA	-	Daytime (07:00 – 18:00) LAeq, 15minute: 35 dB	Yes	N/A ²
N/A	Cope Road (Receiver 258)	NA11	Management - Attended	Quarterly	-	-	-	-	-
N/A	Lagoons Road	NA2	Validation - Attended	Annually	-	-	-	-	-
42	Winchester Crescent	NA12	Compliance/Validation - Attended	Monthly	IA	IA	Night time (22:00 – 07:00) LAeq, 15minute: 35 dB LA1, 1minute: 45 dB	Yes	No
N/A	Upper Ridge Road (Receiver 176)	NA3	Validation - Attended	Annually	-	-	-	-	-
41	Lower Ridge Road	NA6	Compliance - Attended	Monthly	IA	IA	Night time (22:00 – 07:00) LAeq, 15minute: 37 dB LA1, 1minute: 45 dB	Yes	No
N/A	Moolarben Road (Receiver 28)	NA10	Validation - Attended	Annually	-	-	-	-	-
46	Goulburn River National Park	GRNP	Compliance - Attended	Annually	39	-	All periods LAeq, 15minute: 50 dB	Yes	No
46	Munghorn Gap Nature Reserve	MGNR	Compliance - Attended	Annually	IA	-	All periods LAeq, 15minute: 50 dB	Yes	No

- Noise limits are adjusted by +5 dB during 'very noise-enhancing meteorological conditions' in accordance with the NPfl.
- Ulan School was in recess and not in use, therefore noise limits were not applicable in accordance with the consents.
- Site-only LAeq, 15minute includes modifying factor penalties, if applicable
- Site-only LA1, 1minute based on measured site-only LAmax
- Where site-only noise levels are very low or are masked by other sources and are at least 5 dB lower than relevant limits, then a maximum estimate maybe be provided such as "<20 dB".
- IA is Inaudible. When site only noise is noted as IA, there was no noise from the source of interest audible at the monitoring location.

Environmental Noise Monitoring – August 2025

EPL ID	Location	Site ID	Monitoring Type	Frequency	Measured Level ^{3,4,5,6} LAeq dB (15min)	Measured Level ^{3,4,5,6} LA1,1dB (1min)	Noise Criteria ¹	Monitoring Completed during the period	Exceedance (Yes/No) ¹
44	Ulan Public School	NA1	Compliance - Attended	Monthly	<25	-	Daytime (07:00 – 18:00) LAeq, 15minute: 35 dB	Yes	N/A ²
N/A	Cope Road (Receiver 258)	NA11	Management - Attended	Quarterly	<25	-	Night time (22:00 – 07:00) LAeq, 15minute: 40 dB	Yes	No
N/A	Lagoons Road	NA2	Validation - Attended	Annually	-	-	-	-	-
42	Winchester Crescent	NA12	Compliance/Validation - Attended	Monthly	IA	IA	Night time (22:00 – 07:00) LAeq, 15minute: 35 dB LA1, 1minute: 45 dB	Yes	No
N/A	Upper Ridge Road (Receiver 176)	NA3	Validation - Attended	Annually	-	-	-	-	-
41	Lower Ridge Road	NA6	Compliance - Attended	Monthly	<20	<20	Night time (22:00 – 07:00) LAeq, 15minute: 37 dB LA1, 1minute: 45 dB	Yes	No
N/A	Moolarben Road (Receiver 28)	NA10	Validation - Attended	Annually	-	-	-	-	-
46	Goulburn River National Park	GRNP	Compliance - Attended	Annually	-	-	-	-	No
46	Munghorn Gap Nature Reserve	MGNR	Compliance - Attended	Annually	-	-	-	-	No

- Noise limits are adjusted by +5 dB during 'very noise-enhancing meteorological conditions' in accordance with the NPfl.
- Ulan School was in recess and not in use, therefore noise limits were not applicable in accordance with the consents.
- Site-only LAeq, 15minute includes modifying factor penalties, if applicable
- Site-only LA1, 1minute based on measured site-only LAmax
- Where site-only noise levels are very low or are masked by other sources and are at least 5 dB lower than relevant limits, then a maximum estimate maybe be provided such as "<20 dB".
- IA is Inaudible. When site only noise is noted as IA, there was no noise from the source of interest audible at the monitoring location.

Environmental Noise Monitoring – September 2025

EPL ID	Location	Site ID	Monitoring Type	Frequency	Measured Level ^{3,5,6} LAeq dB (15min)	Measured Level ^{4,5,6} LA1,1dB (1min)	Noise Criteria ¹	Monitoring Completed during the period	Exceedance (Yes/No) ¹
44	Ulan Public School	NA1	Compliance - Attended	Monthly	IA	-	Daytime (07:00 – 18:00) LAeq, 15minute: 35 dB	Yes	N/A ²
N/A	Cope Road (Receiver 258)	NA11	Management - Attended	Quarterly	-	-	-	-	-
N/A	Lagoons Road	NA2	Validation - Attended	Annually	-	-	-	-	-
42	Winchester Crescent	NA12	Compliance/Validation - Attended	Monthly	IA	IA	Night time (22:00 – 07:00) LAeq, 15minute: 35 dB LA1, 1minute: 45 dB	Yes	No
N/A	Upper Ridge Road (Receiver 176)	NA3	Validation - Attended	Annually	-	-	-	-	-
41	Lower Ridge Road	NA6	Compliance -Attended	Monthly	IA	IA	Night time (22:00 – 07:00) LAeq, 15minute: 37 dB LA1, 1minute: 45 dB	Yes	No
N/A	Moolarben Road (Receiver 28)	NA10	Validation - Attended	Annually	-	-	-	-	-
46	Goulburn River National Park	GRNP	Compliance -Attended	Annually	-	-	-	-	No
46	Munghorn Gap Nature Reserve	MGNR	Compliance -Attended	Annually	-	-	-	-	No

- Noise limits are adjusted by +5 dB during 'very noise-enhancing meteorological conditions' in accordance with the NPfI.
- Ulan School was in recess and not in use, therefore noise limits were not applicable in accordance with the consents.
- Site-only LAeq, 15minute, includes modifying factor penalties, if applicable
- Site-only LA1, 1minute based on measured site-only LAmax
- Where site-only noise levels are very low or are masked by other sources and are at least 5 dB lower than relevant limits, then a maximum estimate may be provided such as "<20 dB".
- IA is Inaudible. When site only noise is noted as IA, there was no noise from the source of interest audible at the monitoring location.

Environmental Noise Monitoring – October 2025

EPL ID	Location	Site ID	Monitoring Type	Frequency	Measured Level ^{3,5,6} LAeq dB (15min)	Measured Level ^{4,5,6} LA1,1dB (1min)	Noise Criteria ¹	Monitoring Completed during the period	Exceedance (Yes/No) ¹
44	Ulan Public School	NA1	Compliance - Attended	Monthly	IA	-	Daytime (07:00 – 18:00) LAeq, 15minute: 35 dB	Yes	N/A ²
N/A	Cope Road (Receiver 258)	NA11	Management - Attended	Quarterly	-	-	-	-	-
N/A	Lagoons Road	NA2	Validation - Attended	Annually	-	-	-	-	-
42	Winchester Crescent	NA12	Compliance/Validation - Attended	Monthly	IA	IA	Night time (22:00 – 07:00) LAeq, 15minute: 35 dB LA1, 1minute: 45 dB	Yes	No
N/A	Upper Ridge Road (Receiver 176)	NA3	Validation - Attended	Annually	-	-	-	-	-
41	Lower Ridge Road	NA6	Compliance -Attended	Monthly	IA	IA	Night time (22:00 – 07:00) LAeq, 15minute: 37 dB LA1, 1minute: 45 dB	Yes	No
N/A	Moolarben Road (Receiver 28)	NA10	Validation - Attended	Annually	-	-	-	-	-
46	Goulburn River National Park	GRNP	Compliance -Attended	Annually	-	-	-	-	-
46	Munghorn Gap Nature Reserve	MGNR	Compliance -Attended	Annually	-	-	-	-	-

- Noise limits are adjusted by +5 dB during 'very noise-enhancing meteorological conditions' in accordance with the NPfI.
- Ulan School was in recess and not in use, therefore noise limits were not applicable in accordance with the consents.
- Site-only LAeq, 15minute, includes modifying factor penalties, if applicable
- Site-only LA1, 1minute based on measured site-only LAmax
- Where site-only noise levels are very low or are masked by other sources and are at least 5 dB lower than relevant limits, then a maximum estimate may be provided such as "<20 dB".
- IA is Inaudible. When site only noise is noted as IA, there was no noise from the source of interest audible at the monitoring location.

Environmental Noise Monitoring – November 2025

EPL ID	Location	Site ID	Monitoring Type	Frequency	Measured Level ^{3,5,6} LAeq dB (15min)	Measured Level ^{4,5,6} LA1,1dB (1min)	Noise Criteria ¹	Monitoring Completed during the period	Exceedance (Yes/No) ¹
44	Ulan Public School	NA1	Compliance - Attended	Monthly	IA	-	Daytime (07:00 – 18:00) LAeq, 15minute: 35 dB	Yes	N/A ²
N/A	Cope Road (Receiver 258)	NA11	Management (Cumulative) - Attended	Quarterly	Nil ⁷	-	-	Yes	No
N/A	Lagoons Road	NA2	Validation - Attended	Annually	-	-	-	-	-
42	Winchester Crescent	NA12	Compliance/Validation - Attended	Monthly	IA	IA	Night time (22:00 – 07:00) LAeq, 15minute: 35 dB LA1, 1minute: 45 dB	Yes	No
N/A	Upper Ridge Road (Receiver 176)	NA3	Validation - Attended	Annually	-	-	-	-	-
41	Lower Ridge Road	NA6	Compliance -Attended	Monthly	<20	<20	Night time (22:00 – 07:00) LAeq, 15minute: 37 dB LA1, 1minute: 45 dB	Yes	No
N/A	Moolarben Road (Receiver 28)	NA10	Validation - Attended	Annually	-	-	-	-	-
46	Goulburn River National Park	GRNP	Compliance -Attended	Annually	-	-	-	-	-
46	Munghorn Gap Nature Reserve	MGNR	Compliance -Attended	Annually	-	-	-	-	-

- Noise limits are adjusted by +5 dB during 'very noise-enhancing meteorological conditions' in accordance with the NPfl.
- Ulan School was in recess and not in use, therefore noise limits were not applicable in accordance with the consents.
- Site-only LAeq, 15minute, includes modifying factor penalties, if applicable
- Site-only LA1, 1minute based on measured site-only LAmax
- Where site-only noise levels are very low or are masked by other sources and are at least 5 dB lower than relevant limits, then a maximum estimate may be provided such as "<20 dB".
- IA is Inaudible. When site only noise is noted as IA, there was no noise from the source of interest audible at the monitoring location.
- By definition, cumulative noise refers to two or more noise sources. If only one source of mining noise is audible then the measured cumulative noise is defined here as 'Nil'.

Environmental Noise Monitoring – December 2025

EPL ID	Location	Site ID	Monitoring Type	Frequency	Measured Level ^{3,5,6} LAeq dB (15min)	Measured Level ^{4,5,6} LA1,1dB (1min)	Noise Criteria ¹	Monitoring Completed during the period	Exceedance (Yes/No) ¹
44	Ulan Public School	NA1	Compliance - Attended	Monthly	IA	-	Daytime (07:00 – 18:00) LAeq, 15minute: 35 dB	Yes	N/A ²
N/A	Cope Road (Receiver 258)	NA11	Management (Cumulative) - Attended	Quarterly	-	-	-	-	No
N/A	Lagoons Road	NA2	Validation - Attended	Annually	-	-	-	-	-
42	Winchester Crescent	NA12	Compliance/Validation - Attended	Monthly	IA	IA	Night time (22:00 – 07:00) LAeq, 15minute: 35 dB LA1, 1minute: 45 dB	Yes	No
N/A	Upper Ridge Road (Receiver 176)	NA3	Validation - Attended	Annually	-	-	-	-	-
41	Lower Ridge Road	NA6	Compliance -Attended	Monthly	IA	IA	Night time (22:00 – 07:00) LAeq, 15minute: 37 dB LA1, 1minute: 45 dB	Yes	No
N/A	Moolarben Road (Receiver 28)	NA10	Validation - Attended	Annually	-	-	-	-	-
46	Goulburn River National Park	GRNP	Compliance -Attended	Annually	-	-	-	-	-
46	Munghorn Gap Nature Reserve	MGNR	Compliance -Attended	Annually	-	-	-	-	-

- Noise limits are adjusted by +5 dB during 'very noise-enhancing meteorological conditions' in accordance with the NPfl.
- Ulan School was in recess and not in use, therefore noise limits were not applicable in accordance with the consents.
- Site-only LAeq, 15minute, includes modifying factor penalties, if applicable
- Site-only LA1, 1minute based on measured site-only LAmax
- Where site-only noise levels are very low or are masked by other sources and are at least 5 dB lower than relevant limits, then a maximum estimate may be provided such as "<20 dB".
- IA is Inaudible. When site only noise is noted as IA, there was no noise from the source of interest audible at the monitoring location.

APPENDIX 3C. BLAST MONITORING DATA

Date	Time	BM1 Ulan School		BM5 Ridge Road		BM8 Moolarben Road	
		Ground Vibration (mm/s)	Blast Overpressure (dBL)	Ground Vibration (mm/s)	Blast Overpressure (dBL)	Ground Vibration (mm/s)	Blast Overpressure (dBL)
4/01/2025	12:15	0.12	86.4	0.13	93.7	0.13	90.6
6/01/2025	12:02	0.04	94	0.02	93.9	0	88.3
7/01/2025	12:10	0.05	90.2	0.04	89.3	0.01	91.7
9/01/2025	12:11	0.21	97.6	0.23	96.1	0.2	96.1
13/01/2025	12:09	0.38	86.7	0.19	96.2	0.38	99.9
13/01/2025	12:14	0.15	93.6	0.11	92.8	0.11	88.8
14/01/2025	14:51	0.19	99.3	0.17	96.6	0.29	93.9
16/01/2025	12:04	0.59	106.8	0.17	102.8	0.09	88.1
16/01/2025	15:25	0.16	88	0.18	90.7	0.12	84.3
20/01/2025	16:04	0.35	94.5	0.43	98	0.3	99.6
22/01/2025	16:12	0.1	91.8	0.1	88.2	0.07	95
22/01/2025	16:20	0.14	92	0.13	97.6	0.22	100.2
24/01/2025	12:08	0.07	95.9	0.05	92.5	0.03	83.6
25/01/2025	15:55	0.06	92	0.7	95.4	0.02	90.5
28/01/2025	12:03	0.04	94.8	0.07	99.3	0.03	93.2
3/02/2025	12:17	0.2	99.1	0.15	100.9	0.25	95.2
3/02/2025	16:04	0.12	110.8	0.15	103.2	0.1	100.3
4/02/2025	12:07	0.48	99.1	0.14	101.4	0.06	93.3
4/02/2025	16:25	0.19	88.9	0.14	85.6	0.13	82.3
6/02/2025	16:03	0.09	86.5	0.06	96	0.04	87
8/02/2025	12:21	0.36	99.1	0.18	95.6	0.06	89.2
10/02/2025	12:01	0.12	82.3	0.12	88.9	0.09	92.3
17/02/2025	12:05	0.17	110.7	0.11	103.1	0.07	94.3
17/02/2025	16:44	0.19	94.7	0.17	95.8	0.19	91.7
19/02/2025	12:24	0.19	96.7	0.11	101.4	0.08	97.9
20/02/2025	15:54	0.22	103.2	0.2	101	0.59	101.6
22/02/2025	12:29	0.03	86.8	0.03	84.5	0.01	82.3
22/02/2025	16:00	0.08	92.3	0.06	91.7	0.1	85.3
24/02/2025	12:03	0.13	87.2	0.11	100.3	0.15	93.4
25/02/2025	12:03	0.13	89.3	0.09	100.6	0.09	99.2
26/02/2025	12:02	0.21	90.8	0.12	91.6	0.13	93.1
28/02/2025	12:15	0.1	92.3	0.08	87.9	0.04	91.1
3/03/2025	12:16	0.16	97	0.33	106.9	0.23	103.3
4/03/2025	13:06	0.28	101.5	0.12	104.3	0.1	103
7/03/2025	14:32	0.54	103.9	0.15	108	0.1	108.7
7/03/2025	16:13	0.13	100.5	0.09	100.9	0.15	104.8
10/03/2025	12:29	0.09	95.7	0.15	101	0.18	100.8
10/03/2025	16:04	0.12	97.7	0.07	94.3	0.03	92.9
11/03/2025	16:03	0.55	102.4	0.17	94.7	0.11	87.2
15/03/2025	12:00	0.2	88.2	0.25	95.6	0.15	97.7
15/03/2025	14:02	0.65	101.5	0.27	95.8	0.18	91.7
17/03/2025	12:05	0.13	95	0.15	97.6	0.18	97.3
17/03/2025	16:06	0.18	96.9	0.08	104.1	0.08	95.3
21/03/2025	12:08	0.33	94.9	0.28	94.1	0.38	98.1
21/03/2025	15:57	0.11	99.8	0.09	98.2	0.21	92.6
24/03/2025	16:04	0.1	87.5	0.05	84.3	0.03	93.6

Date	Time	BM1 Ulan School		BM5 Ridge Road		BM8 Moolarben Road	
		Ground Vibration (mm/s)	Blast Overpressure (dBL)	Ground Vibration (mm/s)	Blast Overpressure (dBL)	Ground Vibration (mm/s)	Blast Overpressure (dBL)
25/03/2025	11:57	0.1	103.8	0.08	104.2	0.15	98.1
26/03/2025	12:05	0.06	90.3	0.05	94.9	0.02	94.8
27/03/2025	11:59	0.08	92.3	0.05	105.5	0.05	108.3
28/03/2025	12:03	0.23	102.4	0.13	104.6	0.08	102.8
29/03/2025	12:08	0.23	97.4	0.27	101.8	0.21	100.5
29/03/2025	16:01	0.1	87.2	0.07	79.4	0.13	85.9
31/03/2025	12:07	0.17	84.8	0.13	81.9	0.15	94.8
2/04/2025	12:09	0.15	111.6	0.16	99.4	0.22	99.7
3/04/2025	12:04	0.08	86.8	0.09	87.1	0.09	91.2
4/04/2025	14:30	0.21	93.7	0.11	89	0.05	94.3
5/04/2025	12:01	0.05	86.8	0.03	89.5	0.03	98.2
11/04/2025	15:56	0.11	94	0.06	83.4	0.1	83.4
12/04/2025	12:08	0.11	94.8	0.09	99.3	0.07	100.4
14/04/2025	16:11	0.19	97.3	0.13	90.7	0.12	91.7
15/04/2025	12:22	0.03	86.4	0.03	106.7	0.04	94.3
17/04/2025	16:02	0.4	105.3	0.18	103.4	0.18	104
17/04/2025	16:47	0.27	99.9	0.12	101.5	0.22	97.2
22/04/2025	12:27	0.09	88.1	0.04	84.3	0.01	88.5
22/04/2025	12:44	0.16	102.9	0.09	94.6	0.11	88.9
23/04/2025	12:07	0.05	100.7	0.06	114.4	0.05	100.2
23/04/2025	16:04	0.08	91.1	0.06	102.2	0.07	101.4
24/04/2025	12:06	0.05	96.7	0.03	99.6	0.03	102.1
26/04/2025	12:01	0.14	96.2	0.07	101.4	0.06	103.3
26/04/2025	16:02	0.1	88.3	0.1	85.9	0.08	88.1
29/04/2025	12:08	0.56	97.8	0.17	93.8	0.12	89.6
29/04/2025	12:15	0.25	95.9	0.08	97.5	0.05	89.6
30/04/2025	12:00	0.08	105.6	0.07	92.6	0.08	91.9
3/05/2025	12:03	0.38	102.9	0.22	100.9	0.28	93.3
5/05/2025	13:16	0.37	94.7	0.28	94.9	0.37	92.3
6/05/2025	12:03	0.36	96.2	0.13	92.4	0.12	94.4
7/05/2025	12:03	0.09	82.7	0.06	99.3	0.06	86.1
10/05/2025	11:57	0.16	99.5	0.07	105.5	0.07	97.1
14/05/2025	16:08	0.18	102.1	0.13	96.7	0.04	88.4
15/05/2025	12:14	0.09	103.8	0.08	116	0.03	102.3
16/05/2025	12:09	0.19	88.7	0.13	88	0.16	90.6
16/05/2025	15:11	1.11	109.8	0.75	101.9	0.42	94.5
19/05/2025	13:08	0.24	103.4	0.1	102.8	0.2	99.1
20/05/2025	15:58	0.17	94.5	0.14	98.9	0.16	96.3
26/05/2025	11:59	0.25	83.8	0.19	89.9	0.28	90.9
27/05/2025	12:01	0.26	102.9	0.13	102.7	0.07	103.9
28/05/2025	16:03	0.1	94.5	0.15	94.1	0.42	98.9
31/05/2025	16:14	0.21	98.6	0.24	105	0.24	101.4
2/06/2025	16:04	0.1	99.6	0.13	98.9	0.19	92.9
3/06/2025	12:08	0.36	104.1	0.14	95.3	0.09	98.5
3/06/2025	16:17	0.27	91.1	0.15	91.2	0.11	97
7/06/2025	11:55	0.14	89.2	0.12	91.3	0.09	101.6
7/06/2025	15:46	0.04	96.4	0.04	101	0.02	102.6
10/06/2025	11:59	0.45	98.2	0.15	90.4	0.07	87.9
10/06/2025	15:56	0.06	94.4	0.06	90.2	0.03	85.6

Date	Time	BM1 Ulan School		BM5 Ridge Road		BM8 Moolarben Road	
		Ground Vibration (mm/s)	Blast Overpressure (dBL)	Ground Vibration (mm/s)	Blast Overpressure (dBL)	Ground Vibration (mm/s)	Blast Overpressure (dBL)
14/06/2025	16:03	0.09	86.8	0.14	92.4	0.12	94
16/06/2025	12:05	0.47	109.6	0.1	101.6	0.07	93.6
16/06/2025	15:58	0.17	99	0.13	90.3	0.09	85.1
17/06/2025	11:53	0.09	90.3	0.08	90.7	0.08	93.9
19/06/2025	13:07	0.17	90	0.16	87.4	0.07	89.2
21/06/2025	12:02	0.07	82.9	0.07	80.8	0.03	74.6
21/06/2025	16:00	0.09	86	0.09	80.1	0.09	77.3
23/06/2025	12:10	0.16	94.8	0.08	101.1	0.04	99.4
23/06/2025	16:07	0.21	88.9	0.09	94.6	0.05	87.7
25/06/2025	11:59	0.55	107.7	0.27	102.4	0.16	103.5
26/06/2025	16:00	0.2	90.7	0.25	92.7	0.45	99.1
30/06/2025	16:06	0.14	96.8	0.14	92.3	0.12	88.3
30/06/2025	16:13	0.25	93.3	0.15	98.7	0.2	91.1
2/07/2025	12:02	0.13	100.8	0.1	97.1	0.04	94.1
3/07/2025	12:14	0.09	92.7	0.16	100.1	0.12	94.3
4/07/2025	16:00	0.26	90.4	0.3	96.6	0.18	100.6
5/07/2025	12:02	0.12	84.5	0.16	84.1	0.09	79.4
7/07/2025	12:05	0.08	100.8	0.1	101.1	0.05	96
10/07/2025	12:00	0.15	93.9	0.37	105.1	0.26	108.1
11/07/2025	16:01	0.09	89.8	0.21	92.2	0.35	90.5
14/07/2025	12:03	0.42	95.8	0.11	100.8	0.08	98.6
14/07/2025	15:56	0.15	96	0.09	88.5	0.04	79.4
17/07/2025	14:10	0.33	111.6	0.13	101.4	0.07	88.3
19/07/2025	13:00	0.18	103.1	0.13	97.5	0.1	94.9
22/07/2025	16:07	0.17	99.5	0.32	102.2	0.25	97
22/07/2025	16:14	0.1	86	0.11	92.5	0.09	91.4
23/07/2025	13:03	0.5	97.5	0.2	97.1	0.12	99.8
23/07/2025	13:09	0.16	101.3	0.05	94.3	0.02	94
26/07/2025	16:00	0.17	91.2	0.18	94.3	0.14	100.6
28/07/2025	12:11	0.84	111.3	0.43	93.5	0.29	101.2
28/07/2025	16:10	0.11	90.6	0.13	92	0.09	94.3
31/07/2025	12:23	0.08	89.3	0.12	92.3	0.13	94.1
31/07/2025	16:03	0.21	95.8	0.25	102.4	0.25	100.1
5/08/2025	12:16	0.26	91.4	0.1	86.1	0.05	99.3
5/08/2025	16:07	0.16	97.1	0.14	87.8	0.09	87.9
6/08/2025	11:59	0.22	97.7	0.13	96.8	0.14	85.6
7/08/2025	16:06	0.07	93.2	0.08	100.6	0.06	93.2
9/08/2025	16:07	0.06	88.4	0.06	99.4	0.03	97
9/08/2025	16:13	0.07	90.4	0.1	97.3	0.05	98.3
14/08/2025	16:20	0.11	87.2	0.19	95.4	0.14	95
15/08/2025	16:04	0.2	81.8	0.08	78.1	0.1	77.6
18/08/2025	12:02	0.1	90	0.13	96.1	0.08	94.6
18/08/2025	16:02	0.14	99.2	0.16	116.4	0.21	98.2
19/08/2025	15:59	0.17	97.3	0.18	103.3	0.16	99.7
22/08/2025	11:59	0.04	81.3	0.03	85.7	0.01	82.6
23/08/2025	11:59	0.26	90.1	0.26	86.1	0.24	95.9
26/08/2025	15:59	0.15	90	0.16	88.4	0.11	94.8
27/08/2025	12:04	0.36	100.7	0.22	100.6	0.12	99.4
30/08/2025	12:05	0.09	112.3	0.08	108.7	0.05	104.4

Date	Time	BM1 Ulan School		BM5 Ridge Road		BM8 Moolarben Road	
		Ground Vibration (mm/s)	Blast Overpressure (dBL)	Ground Vibration (mm/s)	Blast Overpressure (dBL)	Ground Vibration (mm/s)	Blast Overpressure (dBL)
1/09/2025	16:06	0.09	85.3	0.1	85.5	0.05	82.6
5/09/2025	12:06	0.15	89.5	0.13	96	0.07	90.7
6/09/2025	12:00	0.15	101	0.22	108.2	0.14	102.9
8/09/2025	15:55	0.06	97.8	0.05	100.6	0.01	90.8
9/09/2025	16:01	0.09	102.4	0.08	86.2	0.03	87.3
10/09/2025	15:17	0.09	81.1	0.04	80.3	0.02	89.9
15/09/2025	16:12	0.28	89	0.19	95.7	0.12	90.4
17/09/2025	11:59	0.09	90.8	0.46	94.6	0.11	90.3
19/09/2025	12:50	0.33	96.6	0.11	89.2	0.04	93.5
20/09/2025	12:03	0.11	104.5	0.09	99.1	0.09	107.6
22/09/2025	12:01	0.08	99.2	0.06	101	0.05	99.5
23/09/2025	12:00	0.1	86.5	0.07	81	0.02	83.1
26/09/2025	12:01	0.07	102.1	0.04	104.1	0.02	106.2
27/09/2025	16:07	0.26	95.2	0.15	95.2	0.08	104.2
27/09/2025	16:18	0.06	90.7	0.02	99.7	0.01	95.2
29/09/2025	12:26	0.28	95	0.17	99.6	0.16	96.4
30/09/2025	16:02	0.16	90.5	0.25	103.4	0.3	94.2
1/10/2025	12:02	0.1	94.1	0.06	105.5	0.03	96.7
1/10/2025	16:00	0.42	97.9	0.12	92	0.05	97.2
3/10/2025	12:00	0.13	97.6	0.09	101.6	0.06	100.6
4/10/2025	12:01	0.16	86.7	0.07	88.1	0.1	82.2
7/10/2025	11:57	0.08	87.1	0.14	92.8	0.12	96.1
9/10/2025	12:12	0.08	81.1	0.06	80.3	0.03	81.2
10/10/2025	15:57	0.09	82.7	0.07	92.9	0.08	96.1
11/10/2025	11:58	0.07	102.2	0.05	100.9	0.02	98.1
13/10/2025	11:58	0.07	82.3	0.06	94.1	0.07	99.9
14/10/2025	15:59	0.33	88.5	0.39	91.4	0.2	92.8
17/10/2025	12:05	0.1	96.4	0.08	97.8	0.04	97.9
17/10/2025	12:22	0.16	103.1	0.09	99.6	0.1	98.5
20/10/2025	16:08	0.09	83.2	0.06	91.3	0.05	91.8
21/10/2025	16:06	0.1	89.8	0.09	104.2	0.06	99.5
24/10/2025	12:06	0.27	98.3	0.1	107.9	0.07	86.6
25/10/2025	11:53	0.06	81.8	0.06	83.4	0.06	85.4
27/10/2025	12:04	0.19	99.1	0.28	104.6	0.7	105.9
29/10/2025	15:58	0.48	111.7	0.17	117	0.12	107.8
31/10/2025	11:07	0.27	103	0.11	98.5	0.08	93.8
1/11/2025	11:59	0.15	89.6	0.12	95.1	0.13	94.3
3/11/2025	12:05	0.11	85.7	0.06	98.4	0.04	100.8
7/11/2025	16:04	0.11	92	0.11	87	0.06	101.7
10/11/2025	14:09	0.11	93.3	0.04	91	0.02	90.3
10/11/2025	16:05	0.21	86.2	0.12	83.7	0.08	80.6
12/11/2025	11:57	0.24	91.5	0.12	94.8	0.16	91.9
13/11/2025	11:55	0.06	98.4	0.12	87.4	0.08	93.2
15/11/2025	15:24	0.22	99	0.26	92.7	0.16	93.8
17/11/2025	12:04	0.06	87.2	0.12	103.2	0.08	110.7
17/11/2025	15:58	0.25	85.7	0.48	96.5	0.18	99
20/11/2025	15:57	0.05	90.1	0.05	85.9	0.03	88.8
21/11/2025	12:00	0.09	95.8	0.06	106.2	0.02	100.9
21/11/2025	15:58	0.05	100.9	0.06	102.7	0.16	106.7

Date	Time	BM1 Ulan School		BM5 Ridge Road		BM8 Moolarben Road	
		Ground Vibration (mm/s)	Blast Overpressure (dBL)	Ground Vibration (mm/s)	Blast Overpressure (dBL)	Ground Vibration (mm/s)	Blast Overpressure (dBL)
22/11/2025	11:56	0.06	85.8	0.06	102.6	0.03	94.1
25/11/2025	11:58	0.08	104.4	0.07	110	0.06	101.5
28/11/2025	12:00	0.33	99.3	0.12	89.4	0.06	98.6
29/11/2025	15:59	0.22	106.6	0.2	117.7	0.15	102.8
1/12/2025	12:07	0.27	102.5	0.13	108.4	0.06	87.8
1/12/2025	15:53	0.11	91.9	0.08	86.4	0.06	94.3
2/12/2025	11:54	0.16	101.5	0.1	107.4	0.13	103.8
4/12/2025	15:10	0.51	104.3	0.32	94.7	0.14	88.9
5/12/2025	16:00	0.15	100.3	0.17	96.6	0.29	97.6
9/12/2025	12:02	0.21	92.5	0.16	93.2	0.16	84.8
12/12/2025	12:00	0.08	102.7	0.08	98.5	0.07	88.3
15/12/2025	16:06	0.16	93.2	0.1	89.8	0.09	88
16/12/2025	16:01	0.04	86.8	0.07	99.2	0.03	91.7
17/12/2025	16:04	0.15	97.8	0.09	93.7	0.09	85
18/12/2025	16:02	0.18	96.7	0.13	92.2	0.1	85.6
20/12/2025	15:56	0.17	107.8	0.1	100.3	0.07	85.1
22/12/2025	11:53	0.12	84.8	0.07	99.6	0.1	95
23/12/2025	11:59	0.06	89.4	0.07	101.7	0.06	98.8
29/12/2025	16:00	0.13	93.6	0.09	101.3	0.16	92.4
31/12/2025	12:00	0.13	91.8	0.05	83.4	0.1	101.2

Date	Time	OC402 Power Pole	OC402 Culvert
		Ground Vibration (mm/s)	Ground Vibration (mm/s)
22/04/2026	12:44	2.42	2.66

APPENDIX 3D. AIR QUALITY DATA

Table 3-a : Summary of the MCO Air Quality-Monitoring Program

Monitoring Parameter	Monitoring Location	Frequency	Justification
Dust Deposition	DG01 – Bobadeen	Every 30 days $\pm$ 2 days	Background monitoring north of the Moolarben Coal Complex.
	DG04 – Ulan Village	Every 30 days $\pm$ 2 days	Representative of nearest non-mine owned residences to the north-west of the Moolarben Coal Complex.
	DG05 – Glenmoor	Every 30 days $\pm$ 2 days	Representative of nearest non-mine owned residences to the south-west and west of the Moolarben Coal Complex.
	DG09 – Wilga	Every 30 days $\pm$ 2 days	Representative of non-mine owned residences to the south-west and west of the Moolarben Coal Complex.
HVAS – PM10	PM 01 (Ulan Village)	Every 6 days	Indicative of potential impacts to nearest non-mine owned residences to the north-west of the Moolarben Coal Complex.
	PM 02 (Ridge Road)	Every 6 days	Background monitoring south-west and west of the Moolarben Coal Complex.
Real Time PM ₁₀	TEOM 01 (Ulan School)	Real Time PM ₁₀	Real time monitoring at Ulan Public School.
	TEOM 04 (Ulan Road)	Real Time PM ₁₀	Real time monitoring representative of nearest non-mine owned residences to the west of the Moolarben Coal Complex.
	TEOM 07 (Ulan Road)	Real Time PM ₁₀	Real time monitoring representative of non-mine owned residences to the south-west of and west of the Moolarben Coal Complex.
	TEOM 06 (Ulan-Wollar Rd)	Real Time PM ₁₀	Real time monitoring not representative of private residences, used to measure “upwind” air quality.
	TEOM 08 (Core Shed)	Real Time PM ₁₀	Real time monitoring not representative of private residences, used to measure “upwind” air quality.
Real Time PM _{2.5}	TEOM 07 (Ulan Road)	Real Time PM _{2.5}	Real time monitoring representative of non-mine owned residences to the south-west of and west of the Moolarben Coal Complex.

Table 3-b : Summary of the MCO Air Quality-Monitoring Program – Dust Deposition

Dust Gauge	Jan-25	Feb-25	Mar-25	Apr-25	May-25	Jun-25	Jul- 25	Aug-25	Sep-25	Oct-25	Nov-25	Dec-25
DG1	0.6	0.4	0.6	0.2	0.3	0.1	0.1	0.1	0.1	0.3	0.5	0.9
DG4	1.1	1.1	1.8	0.7	1.3	0.4	0.7	2.6	0.8	0.5	0.6	0.7
DG5	0.5	0.8	1.1	1.1	1.1	3.9	0.4	0.7	1.6	0.3	1.6	0.7
DG9	0.7	0.6	0.9	0.1	0.7	0.1	0.1	0.1	0.2	0.3	0.8	3

Figure 3-b 2020 to 2025 Dust Depositional Results

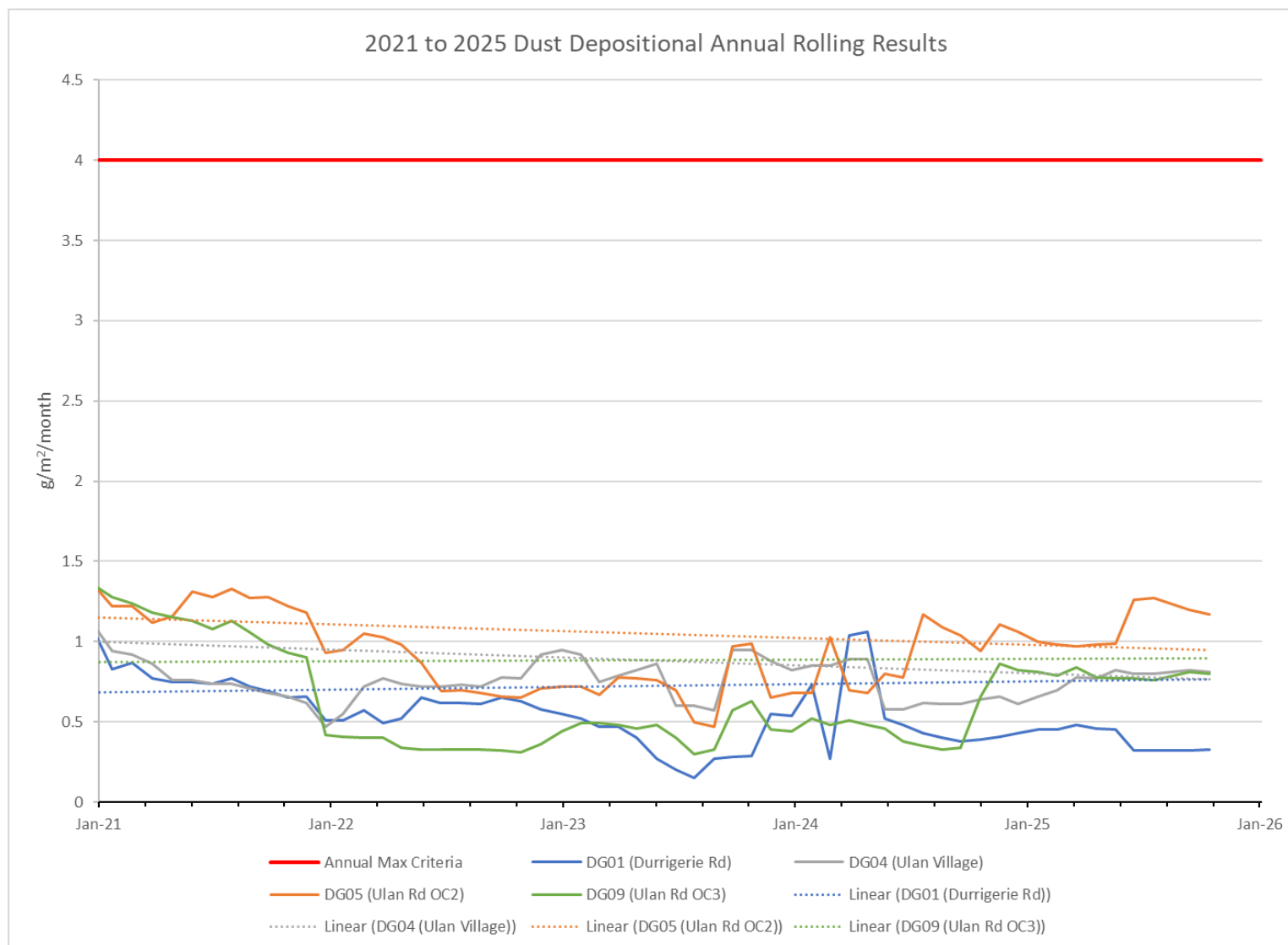


Table 3-c: TEOM Monitoring Data (Cumulative)

Date	Ulan School TEOM01 EPL 17	Lagoons Road TEOM04	Ulan Road TEOM07 EPL27		Ulan-Wollar Road TEOM06^ EPL15	Ulan-Wollar Road TEOM08^	Comment
	PM10 Daily Result (24hr Average Limit = 50µg/m³)		PM2.5 Daily Result (24hr Average Limit = 25µg/m³)	PM10 Daily Result (µg/m³)			
1/01/2025	17.8	20.1	Insufficient data	Insufficient data	21.2	18.2	Equipment Failure
2/01/2025	31.4	29.4	Insufficient data	Insufficient data	31.5	32.6	Equipment Failure
3/01/2025	25.3	26.2	Insufficient data	Insufficient data	20.1	20.0	Equipment Failure
4/01/2025	21.1	17.8	Insufficient data	Insufficient data	21.4	18.3	Equipment Failure
5/01/2025	14.4	13.0	Insufficient data	Insufficient data	19.0	16.9	Equipment Failure
6/01/2025	18.3	14.9	Insufficient data	Insufficient data	23.6	19.8	Equipment Failure
7/01/2025	13.8	11.1	7.4	6.0	10.9	10.1	
8/01/2025	5.4	4.4	3.1	1.8	4.8	3.8	
9/01/2025	9.5	5.1	3.1	1.9	7.5	6.1	
10/01/2025	10.8	9.0	6.2	4.1	8.2	7.5	
11/01/2025	9.3	10.6	7.5	4.7	7.1	6.8	
12/01/2025	9.4	10.0	5.0	1.9	9.0	6.8	
13/01/2025	9.4	10.1	8.2	5.4	10.6	8.1	
14/01/2025	18.1	14.6	11.7	7.5	16.3	14.5	
15/01/2025	21.7	17.3	10.9	6.0	22.4	Insufficient data	Scheduled Maintenance
16/01/2025	14.5	Insufficient data	Insufficient data	Insufficient data	10.6	Insufficient data	Scheduled Maintenance
17/01/2025	13.7	10.4	7.2	3.0	11.9	11.1	
18/01/2025	15.1	9.4	5.4	2.0	17.9	12.6	
19/01/2025	18.2	13.5	10.1	5.6	11.8	11.9	
20/01/2025	23.1	21.8	16.6	6.2	16.6	18.4	
21/01/2025	38.9	25.9	18.6	9.2	25.1	26.5	
22/01/2025	32.1	22.2	17.9	9.0	44.2	49.6	
23/01/2025	26.2	24.5	13.2	6.6	16.5	19.0	
24/01/2025	27.4	27.2	12.8	10.4	30.8	27.8	
25/01/2025	23.4	23.3	11.6	6.1	15.3	17.0	
26/01/2025	26.9	26.8	15.3	6.4	19.0	20.0	
27/01/2025	17.5	20.1	12.6	6.1	13.7	15.6	
28/01/2025	27.1	25.2	19.2	7.0	37.7	42.7	
29/01/2025	21.8	21.0	14.3	9.2	13.3	Insufficient data	Power Outage
30/01/2025	11.6	12.4	6.4	4.1	7.7	Insufficient data	Power Outage
31/01/2025	9.8	8.5	4.3	2.8	4.8	4.8	
1/02/2025	12.5	13.2	7.0	4.5	10.0	11.2	
2/02/2025	17.8	18.2	10.1	5.3	11.5	13.6	
3/02/2025	16.4	17.2	8.0	3.5	10.8	10.6	
4/02/2025	19.2	17.0	10.2	2.7	11.8	12.3	
5/02/2025	19.5	14.3	7.9	3.5	18.9	25.5	
6/02/2025	23.4	22.5	16.6	12.4	17.7	19.6	
7/02/2025	23.0	21.4	12.2	6.7	17.3	16.6	
8/02/2025	23.3	19.2	10.4	6.0	15.5	19.6	
9/02/2025	13.9	13.4	9.6	7.4	11.2	12.3	
10/02/2025	Insufficient data	9.8	7.9	6.1	7.5	8.6	Power Outage
11/02/2025	9.9	9.1	4.3	2.3	7.5	7.7	
12/02/2025	15.5	14.7	8.7	6.6	10.1	11.2	
13/02/2025	14.5	14.0	9.9	6.6	10.3	11.2	
14/02/2025	19.0	16.1	9.8	6.0	13.6	13.3	
15/02/2025	12.0	10.9	11.3	6.1	16.3	13.4	

Date	Ulan School TEOM01 EPL 17	Lagoons Road TEOM04	Ulan Road TEOM07 EPL27		Ulan-Wollar Road TEOM06^ EPL15	Ulan-Wollar Road TEOM08^	Comment
	PM10 Daily Result (24hr Average Limit = 50µg/m³)			PM2.5 Daily Result (24hr Average Limit = 25µg/m³)	PM10 Daily Result (µg/m³)		
16/02/2025	9.8	8.3	5.0	1.7	14.1	14.6	
17/02/2025	18.8	17.4	10.4	4.9	13.8	16.4	
18/02/2025	20.4	19.2	11.2	5.4	16.8	20.0	
19/02/2025	25.1	20.2	14.6	6.5	27.8	26.7	
20/02/2025	21.2	19.5	11.5	6.8	12.6	13.5	
21/02/2025	17.3	18.4	9.6	5.5	11.7	13.7	
22/02/2025	18.1	17.3	10.3	5.7	10.7	11.5	
23/02/2025	19.7	15.1	12.1	5.8	16.1	17.7	
24/02/2025	22.9	19.1	13.5	4.5	39.8	42.8	
25/02/2025	25.7	24.9	14.3	8.6	15.2	18.1	
26/02/2025	17.5	18.3	12.9	6.8	12.0	14.1	
27/02/2025	31.5	25.3	18.3	8.6	22.1	26.8	
28/02/2025	24.0	23.7	17.8	6.9	32.9	40.9	
1/03/2025	22.7	23.8	18.5	9.1	37.4	41.4	
2/03/2025	26.5	32.1	22.2	13.6	40.0	44.1	
3/03/2025	18.4	18.2	10.2	6.3	10.7	12.0	
4/03/2025	24.3	13.7	8.2	4.3	15.9	12.8	
5/03/2025	24.8	12.6	7.2	4.1	14.2	12.5	
6/03/2025	23.5	11.7	5.0	1.8	11.1	10.6	
7/03/2025	21.2	8.7	3.0	1.6	9.5	8.3	
8/03/2025	19.9	10.4	5.6	3.9	8.3	8.2	
9/03/2025	18.3	13.1	5.1	2.4	9.6	11.8	
10/03/2025	12.2	12.7	5.0	3.1	7.8	9.1	
11/03/2025	10.5	6.5	Insufficient data	Insufficient data	6.1	6.1	Scheduled Maintenance
12/03/2025	11.7	10.4	7.5	5.9	7.0	7.1	
13/03/2025	15.2	12.3	9.6	6.3	11.4	12.7	
14/03/2025	30.4	17.8	14.2	8.0	23.3	26.9	
15/03/2025	18.5	16.1	12.0	5.1	28.4	34.0	
16/03/2025	18.5	13.7	14.0	6.4	23.1	28.8	
17/03/2025	31.8	28.7	19.4	5.3	27.3	31.0	
18/03/2025	24.6	23.1	14.1	4.4	15.2	17.9	
19/03/2025	20.1	20.7	17.2	4.9	13.9	14.9	
20/03/2025	27.2	21.4	21.7	5.4	25.1	21.9	
21/03/2025	20.7	12.2	10.0	3.4	35.0	29.8	
22/03/2025	11.9	11.9	8.5	5.1	13.6	12.6	
23/03/2025	11.9	11.7	8.4	5.8	8.7	8.7	
24/03/2025	13.1	12.3	8.0	5.4	9.1	9.6	
25/03/2025	13.5	11.0	7.4	4.4	8.8	8.8	
26/03/2025	13.9	11.6	7.1	2.3	8.2	8.2	
27/03/2025	15.7	13.3	7.9	2.7	10.6	9.3	
28/03/2025	12.6	12.0	5.2	2.2	8.7	7.5	
29/03/2025	5.8	5.5	3.7	2.2	5.8	5.0	
30/03/2025	9.7	8.4	4.0	1.8	10.1	10.7	
31/03/2025	10.7	7.2	Insufficient data	Insufficient data	11.1	11.8	Power Outage
1/04/2025	11.8	8.1	Insufficient data	Insufficient data	7.1	7.7	Abnormal operation
2/04/2025	14.4	14.3	11.3	4.0	10.9	11.2	
3/04/2025	14.6	11.0	11.6	7.1	18.7	20.0	
4/04/2025	19.2	15.7	14.3	5.9	27.1	32.0	
5/04/2025	17.2	15.2	13.9	4.5	28.6	34.9	

Date	Ulan School TEOM01 EPL 17	Lagoons Road TEOM04	Ulan Road TEOM07 EPL27		Ulan-Wollar Road TEOM06^ EPL15	Ulan-Wollar Road TEOM08^	Comment
	PM10 Daily Result (24hr Average Limit = 50µg/m³)		PM2.5 Daily Result (24hr Average Limit = 25µg/m³)	PM10 Daily Result (µg/m³)			
6/04/2025	17.3	14.5	13.6	4.6	23.8	26.6	
7/04/2025	19.1	14.5	13.3	3.6	29.1	30.5	
8/04/2025	22.8	20.9	15.9	5.7	26.3	25.0	
9/04/2025	18.7	15.4	13.5	5.8	12.8	12.3	
10/04/2025	17.4	17.0	11.8	3.9	17.8	13.2	
11/04/2025	20.2	19.1	15.2	7.6	23.4	23.6	
12/04/2025	21.7	21.2	17.2	9.7	24.2	24.4	
13/04/2025	16.2	13.2	8.7	3.6	10.7	9.1	
14/04/2025	19.4	12.3	10.1	5.1	19.7	19.3	
15/04/2025	24.5	14.0	9.8	4.9	24.3	23.9	
16/04/2025	25.2	14.9	11.9	4.3	17.1	17.3	
17/04/2025	17.3	14.7	12.0	6.0	17.3	20.5	
18/04/2025	16.0	16.0	13.9	5.0	17.0	18.1	
19/04/2025	19.1	15.6	12.0	4.3	29.3	33.6	
20/04/2025	22.7	13.6	9.6	2.8	29.3	29.3	
21/04/2025	22.0	17.6	14.6	2.9	36.1	29.6	
22/04/2025	10.7	9.2	5.6	2.0	17.6	22.8	
23/04/2025	18.6	14.7	8.2	3.1	12.0	11.6	
24/04/2025	23.7	21.0	12.9	4.5	15.9	15.7	
25/04/2025	17.0	14.8	9.8	4.1	15.0	13.9	
26/04/2025	16.7	15.6	8.9	3.5	14.3	11.4	
27/04/2025	6.0	5.6	5.2	3.5	8.1	8.0	
28/04/2025	13.2	8.1	6.2	3.7	10.0	9.9	
29/04/2025	13.5	8.8	5.8	3.3	11.9	13.5	
30/04/2025	9.5	6.6	4.7	3.0	7.6	6.4	
1/05/2025	14.3	6.3	4.4	1.6	12.3	13.3	
2/05/2025	11.5	7.0	4.0	1.8	13.7	11.5	
3/05/2025	16.9	10.1	6.2	2.9	12.8	12.7	
4/05/2025	15.8	10.4	7.3	3.1	12.4	10.4	
5/05/2025	16.1	10.8	8.1	4.2	10.1	8.7	
6/05/2025	16.4	8.8	4.5	1.3	22.4	28.2	
7/05/2025	14.9	9.4	7.5	2.6	28.3	31.7	
8/05/2025	15.1	11.3	10.1	4.3	15.7	19.7	
9/05/2025	17.8	15.4	8.1	2.2	13.1	12.1	
10/05/2025	14.6	11.3	5.6	2.3	11.7	9.2	
11/05/2025	10.8	10.5	3.9	1.2	8.5	6.2	
12/05/2025	12.8	9.7	5.6	3.0	8.5	6.7	
13/05/2025	18.2	12.1	7.5	4.2	13.5	10.3	
14/05/2025	20.6	11.4	7.8	3.2	18.8	13.9	
15/05/2025	17.6	13.4	8.8	5.1	17.7	20.5	
16/05/2025	11.8	8.6	7.2	3.0	8.8	9.0	
17/05/2025	13.8	14.7	12.4	6.5	18.4	18.3	
18/05/2025	17.1	15.7	11.2	5.8	21.0	20.6	
19/05/2025	17.4	9.3	4.7	1.7	13.0	10.6	
20/05/2025	15.0	8.9	5.5	2.4	15.4	13.5	
21/05/2025	8.6	6.5	3.3	2.0	7.9	7.1	
22/05/2025	6.4	5.1	1.7	0.9	5.5	4.8	
23/05/2025	8.5	5.0	3.2	2.0	6.1	7.1	
24/05/2025	9.9	7.8	5.7	3.5	9.3	11.6	

Date	Ulan School TEOM01 EPL 17	Lagoons Road TEOM04	Ulan Road TEOM07 EPL27		Ulan-Wollar Road TEOM06^ EPL15	Ulan-Wollar Road TEOM08^	Comment
	PM10 Daily Result (24hr Average Limit = 50µg/m³)			PM2.5 Daily Result (24hr Average Limit = 25µg/m³)	PM10 Daily Result (µg/m³)		
25/05/2025	12.6	9.4	7.8	4.3	16.7	17.4	
26/05/2025	18.3	13.8	7.6	4.0	22.3	23.3	
27/05/2025	89.5c	77.9c	74.6c	11.3	79.4c	85.3c	Extraordinary Event - regional dust storm
28/05/2025	10.5	7.5	4.7	1.9	10.2	10.1	
29/05/2025	14.7	11.8	6.3	3.6	10.8	13.2	
30/05/2025	12.1	8.7	5.4	2.4	11.8	14.0	
31/05/2025	11.7	9.3	7.0	3.2	15.5	14.7	
1/06/2025	10.1	7.3	5.8	3.3	11.2	12.4	
2/06/2025	15.4	9.4	8.2	5.4	16.8	11.3	
3/06/2025	10.5	6.4	5.2	3.6	11.8	9.6	
4/06/2025	13.2	8.6	6.8	4.6	10.1	12.7	
5/06/2025	10.9	6.3	4.9	2.7	13.3	18.1	
6/06/2025	13.0	7.7	6.0	3.4	18.2	19.5	
7/06/2025	9.4	7.0	5.2	2.4	13.2	18.3	
8/06/2025	9.0	8.0	6.6	3.4	9.5	10.0	
9/06/2025	4.9	4.0	2.0	1.4	4.8	5.4	
10/06/2025	7.1	5.2	3.2	2.0	6.3	8.5	
11/06/2025	8.7	5.0	3.4	2.5	7.7	10.9	
12/06/2025	10.4	6.1	2.8	2.0	11.9	17.9	
13/06/2025	9.0	6.4	3.5	2.7	12.5	15.6	
14/06/2025	10.6	8.3	4.9	2.8	12.2	14.6	
15/06/2025	11.5	6.7	6.2	4.0	18.8	19.9	
16/06/2025	11.8	6.7	4.2	2.8	16.8	23.3	
17/06/2025	13.3	7.9	5.1	2.8	18.5	27.6	
18/06/2025	13.3	8.2	6.5	3.7	11.1	14.1	
19/06/2025	15.3	10.7	8.5	3.9	21.5	20.0	
20/06/2025	13.0	9.6	9.8	7.0	21.7	23.3	
21/06/2025	14.2	11.4	8.4	5.4	28.7	24.9	
22/06/2025	12.8	7.8	5.9	3.9	21.6	23.4	
23/06/2025	18.2	8.9	6.7	3.6	24.1	20.8	
24/06/2025	8.4	7.3	4.9	2.2	11.1	12.1	
25/06/2025	12.5	9.8	7.2	2.2	11.3	13.3	
26/06/2025	12.7	5.8	3.3	2.4	9.7	8.6	
27/06/2025	14.6	7.0	5.3	2.8	13.6	13.9	
28/06/2025	14.2	9.9	7.8	4.5	12.9	13.9	
29/06/2025	14.7	9.1	7.4	5.6	28.3	20.3	
30/06/2025	15.9	12.0	9.2	5.8	18.9	19.2	
1/07/2025	9.9	7.5	6.3	4.1	21.8	16.6	
2/07/2025	8.3	6.4	3.4	1.9	7.9	7.6	
3/07/2025	8.3	5.5	3.0	1.9	7.0	8.9	
4/07/2025	10.4	6.5	3.3	2.5	8.8	8.9	
5/07/2025	16.5	10.9	5.5	4.2	29.3	22.1	
6/07/2025	15.7	10.4	6.5	3.2	29.7	24.6	
7/07/2025	12.2	7.0	4.7	2.0	12.4	17.9	
8/07/2025	10.6	7.1	4.9	2.7	15.7	26.8	
9/07/2025	14.0	9.0	7.7	3.4	16.6	25.2	
10/07/2025	18.4	15.8	12.2	2.7	23.2	30.3	
11/07/2025	12.7	9.9	6.2	2.3	15.1	23.6	
12/07/2025	12.1	8.1	5.5	2.6	13.8	15.9	

Date	Ulan School TEOM01 EPL 17	Lagoons Road TEOM04	Ulan Road TEOM07 EPL27		Ulan-Wollar Road TEOM06^ EPL15	Ulan-Wollar Road TEOM08^	Comment
	PM10 Daily Result (24hr Average Limit = 50µg/m³)		PM2.5 Daily Result (24hr Average Limit = 25µg/m³)	PM10 Daily Result (µg/m³)			
13/07/2025	10.2	6.9	6.3	3.7	15.3	20.7	
14/07/2025	12.3	8.4	6.3	2.8	20.9	25.7	
15/07/2025	8.7	8.1	6.3	3.0	13.2	19.7	
16/07/2025	9.4	6.8	5.2	3.4	9.7	12.6	
17/07/2025	14.6	6.9	5.2	3.5	19.5	20.1	
18/07/2025	15.4	10.3	5.9	3.4	18.4	14.4	
19/07/2025	11.7	11.5	6.5	4.1	19.3	19.0	
20/07/2025	17.5	13.7	5.9	3.9	20.5	17.4	
21/07/2025	21.4	12.2	9.4	4.6	36.7	21.2	
22/07/2025	14.9	9.4	5.6	2.2	27.2	13.2	
23/07/2025	11.4	7.7	6.0	3.8	10.1	7.8	
24/07/2025	12.4	6.0	4.0	2.1	9.3	12.0	
25/07/2025	13.4	9.3	4.9	2.1	10.8	10.5	
26/07/2025	7.5	7.0	3.9	2.9	8.9	8.0	
27/07/2025	4.4	4.5	3.0	2.3	4.6	4.9	
28/07/2025	7.2	5.5	3.6	2.6	5.8	6.9	
29/07/2025	11.7	5.5	3.7	2.3	8.4	9.2	
30/07/2025	6.7	6.3	2.4	1.2	9.4	10.8	
31/07/2025	9.3	5.4	2.5	1.5	6.9	7.9	
1/08/2025	11.2	5.0	2.0	1.1	9.2	8.8	
2/08/2025	5.1	3.5	Insufficient data	Insufficient data	7.1	7.6	Invalid Data
3/08/2025	7.0	5.2	3.5	2.8	9.5	7.5	
4/08/2025	13.1	9.5	6.6	3.1	10.5	12.3	
5/08/2025	16.3	9.1	Insufficient data	Insufficient data	15.3	14.4	Planned Maintenance
6/08/2025	12.4	8.5	Insufficient data	Insufficient data	18.1	14.3	Planned Maintenance
7/08/2025	15.3	10.2	5.9	3.2	15.4	14.7	
8/08/2025	13.2	13.1	7.6	3.2	10.5	12.1	
9/08/2025	15.6	7.7	3.5	2.2	10.8	7.9	
10/08/2025	10.5	5.6	2.3	1.6	9.7	6.8	
11/08/2025	12.3	6.9	4.7	3.3	9.3	7.6	
12/08/2025	10.5	8.8	6.5	3.5	15.9	9.8	
13/08/2025	Insufficient data	9.2	7.5	5.0	Insufficient data	18.7	Planned Maintenance
14/08/2025	Insufficient data	Insufficient data	4.9	2.8	Insufficient data	11.1	Planned Maintenance
15/08/2025	10.6	Insufficient data	4.4	2.4	15.9	17.5	
16/08/2025	8.3	7.4	5.8	3.0	21.8	22.7	
17/08/2025	7.3	5.4	4.5	2.7	14.1	15.0	
18/08/2025	14.5	7.8	4.0	1.8	14.0	16.8	
19/08/2025	17.2	8.0	3.8	1.4	7.1	5.8	
20/08/2025	18.1	6.3	3.2	1.4	7.9	4.9	
21/08/2025	6.1	5.1	2.0	1.3	4.5	4.3	
22/08/2025	9.2	6.1	4.1	2.9	7.7	8.3	
23/08/2025	6.9	5.9	3.8	2.5	11.8	12.0	
24/08/2025	9.1	6.8	6.6	4.6	18.8	20.8	
25/08/2025	15.8	8.0	5.7	3.2	16.0	15.2	
26/08/2025	15.7	8.3	6.8	4.0	17.3	19.1	
27/08/2025	11.3	7.4	4.2	1.9	13.6	16.2	
28/08/2025	10.6	7.7	5.5	2.1	17.3	13.4	

Date	Ulan School TEOM01 EPL 17	Lagoons Road TEOM04	Ulan Road TEOM07 EPL27		Ulan-Wollar Road TEOM06^ EPL15	Ulan-Wollar Road TEOM08^	Comment
	PM10 Daily Result (24hr Average Limit = 50µg/m³)			PM2.5 Daily Result (24hr Average Limit = 25µg/m³)	PM10 Daily Result (µg/m³)		
29/08/2025	9.8	6.8	6.1	2.8	12.4	11.9	
30/08/2025	10.4	9.0	4.1	1.7	15.4	12.6	
31/08/2025	8.3	7.0	5.3	3.1	15.9	24.2	
1/09/2025	10.4	8.0	5.3	3.0	21.0	24.5	
2/09/2025	15.8	12.1	7.3	3.5	27.2	22.0	
3/09/2025	13.0	10.8	8.6	4.8	20.4	23.2	
4/09/2025	13.5	9.6	8.4	4.0	28.2	27.6	
5/09/2025	19.7	15.9	11.3	4.6	26.5	27.9	
6/09/2025	18.8	16.0	11.9	4.5	13.1	12.8	
7/09/2025	22.3	14.2	10.7	4.6	23.4	25.6	
8/09/2025	22.4	14.0	11.9	5.6	30.8	36.0	
9/09/2025	14.3	11.5	7.7	3.9	19.6	22.4	
10/09/2025	5.3	Insufficient data	Insufficient data	Insufficient data	Insufficient data	Insufficient data	Power Outtage
11/09/2025	6.2	4.2	-0.2	-0.6	5.3	6.1	PM2.5>PM10
12/09/2025	8.9	6.3	2.9	2.1	11.6	22.4	
13/09/2025	8.0	7.6	4.5	3.3	14.8	18.0	
14/09/2025	9.3	7.1	3.5	2.0	19.9	23.9	
15/09/2025	15.4	11.7	7.3	4.6	24.5	30.2	
16/09/2025	21.0	15.6	12.2	7.9	25.9	19.8	
17/09/2025	12.7	9.8	6.5	3.8	23.9	19.8	
18/09/2025	17.5	11.2	8.0	3.8	23.7	31.3	
19/09/2025	13.8	8.3	5.4	2.0	30.8	30.2	
20/09/2025	8.1	8.5	4.4	2.1	14.4	11.1	
21/09/2025	9.5	8.3	6.1	2.7	17.3	21.2	
22/09/2025	10.8	8.1	4.9	2.0	23.1	21.4	
23/09/2025	11.2	6.8	3.7	1.5	15.3	17.4	
24/09/2025	14.4	11.9	7.9	3.1	19.5	19.6	
25/09/2025	17.3	15.5	9.6	4.0	25.8	22.6	
26/09/2025	20.3	15.0	12.8	5.8	28.5	36.7	
27/09/2025	17.9	17.5	12.7	4.9	23.5	24.4	
28/09/2025	23.5	19.7	16.8	10.6	64.6	47.9	
29/09/2025	29.2	22.0	18.5	10.4	53.0	31.0	
30/09/2025	27.7	20.0	16.7	8.5	33.8	25.1	
1/10/2025	16.5	11.6	13.2	5.0	33.0	23.2	
2/10/2025	15.9	12.8	9.4	1.7	56.4	42.4	
3/10/2025	14.4	12.2	8.9	3.0	57.9	25.8	
4/10/2025	11.2	11.5	5.7	1.3	25.9	20.6	
5/10/2025	12.7	12.5	9.3	4.2	41.1	35.9	
6/10/2025	16.7	15.9	13.8	5.9	73.5	44.1	
7/10/2025	14.0	Insufficient data	10.2	4.0	20.7	19.0	
8/10/2025	19.1	16.4	14.9	5.2	38.1	47.2	
9/10/2025	23.7	15.0	9.0	5.8	32.6	67.6	
10/10/2025	11.0	7.9	4.1	2.1	15.1	47.1	
11/10/2025	11.8	9.2	9.2	4.4	32.3	116.5	
12/10/2025	13.2	10.5	7.0	2.8	41.5	31.3	
13/10/2025	8.2	7.0	3.9	1.5	11.4	13.0	
14/10/2025	15.9	14.4	12.5	4.8	21.5	18.1	
15/10/2025	14.7	11.5	9.0	3.0	34.7	25.7	
16/10/2025	30.1	19.7	16.0	7.2	42.2	41.3	

Date	Ulan School TEOM01 EPL 17	Lagoons Road TEOM04	Ulan Road TEOM07 EPL27		Ulan-Wollar Road TEOM06^ EPL15	Ulan-Wollar Road TEOM08^	Comment
	PM10 Daily Result (24hr Average Limit = 50µg/m³)		PM2.5 Daily Result (24hr Average Limit = 25µg/m³)	PM10 Daily Result (µg/m³)			
17/10/2025	22.2	15.9	12.2	7.2	30.9	48.3	
18/10/2025	17.2	16.0	11.6	6.6	23.0	23.8	
19/10/2025	17.9	16.1	12.6	6.4	21.5	15.7	
20/10/2025	27.4	18.4	14.7	7.1	61.5	45.5	
21/10/2025	33.7	30.7	23.2	10.9	60.7	39.8	
22/10/2025	35.7	Insufficient data	22.8	8.9	40.7	129.2	
23/10/2025	46.6	Insufficient data	43.1	8.2	55.4	46.9	
24/10/2025	15.9	15.4	12.9	3.7	39.8	22.1	
25/10/2025	22.9	25.1	23.8	7.4	32.0	26.4	
26/10/2025	21.5	14.5	22.9	6.7	43.7	38.7	
27/10/2025	17.1	15.3	12.1	3.5	45.7	26.9	
28/10/2025	11.1	11.0	4.3	1.8	5.1	6.9	
29/10/2025	5.4	5.6	2.8	1.9	4.2	5.5	
30/10/2025	12.5	10.3	9.3	6.9	Insufficient data	Insufficient data	Power Outtage
31/10/2025	16.8	15.3	15.2	9.5	20.6	17.4	
1/11/2025	14.3	12.6	9.8	5.9	11.1	12.3	
2/11/2025	18.6	16.9	12.6	8.7	12.0	13.1	
3/11/2025	21.9	20.5	16.9	7.0	57.1	30.3	
4/11/2025	10.3	7.3	7.4	2.7	19.8	24.4	
5/11/2025	14.7	9.8	7.1	1.8	23.9	29.0	
6/11/2025	22.2	12.7	10.9	4.0	26.2	26.8	
7/11/2025	29.5	22.9	16.8	7.1	34.9	26.5	
8/11/2025	21.8	21.3	21.4	12.2	28.4	31.5	
9/11/2025	9.5	8.8	7.4	2.2	26.1	19.4	
10/11/2025	23.6	16.5	10.7	2.8	21.0	21.8	
11/11/2025	18.8	15.3	12.1	2.0	64.6	51.7	
12/11/2025	15.4	8.9	7.0	2.1	26.2	29.2	
13/11/2025	19.2	13.6	10.6	3.5	33.9	42.1	
14/11/2025	30.3	24.7	14.7	4.2	45.4	44.9	
15/11/2025	25.6	26.4	15.9	8.6	23.6	26.5	
16/11/2025	12.2	9.3	7.6	2.8	25.9	21.8	
17/11/2025	17.8	14.7	9.9	1.8	56.8	25.7	
18/11/2025	16.5	Insufficient data	9.0	2.3	29.2	27.0	
19/11/2025	20.8	16.1	9.9	2.4	45.5	55.3	
20/11/2025	26.4	21.1	15.4	5.4	56.2	36.7	
21/11/2025	20.4	17.3	10.7	7.1	13.5	14.7	
22/11/2025	14.9	16.4	8.0	5.4	13.5	14.2	
23/11/2025	11.0	10.8	8.2	4.8	27.4	13.9	
24/11/2025	24.6	20.8	14.2	6.2	39.6	37.4	
25/11/2025	16.5	14.9	9.3	3.3	120.2	23.0	
26/11/2025	14.4	14.5	11.5	4.9	25.0	Insufficient data	Power Outtage
27/11/2025	29.1	28.3	25.1	6.6	70.3	Insufficient data	Power Outtage
28/11/2025	28.9	24.7	15.0	7.5	46.5	51.8	
29/11/2025	18.0	12.9	11.8	5.9	82.2	42.3	
30/11/2025	12.7	9.3	6.2	1.6	46.9	36.8	
1/12/2025	16.9	13.2	9.1	2.6	32.3	36.8	
2/12/2025	6.6	Insufficient data	3.2	1.2	15.7	11.7	
3/12/2025	25.3	25.1	19.4	13.9	33.9	30.4	
4/12/2025	20.9	16.1	14.9	9.3	40.8	47.5	

Date	Ulan School TEOM01 EPL 17	Lagoons Road TEOM04	Ulan Road TEOM07 EPL27		Ulan-Wollar Road TEOM06^ EPL15	Ulan-Wollar Road TEOM08^	Comment
	PM10 Daily Result (24hr Average Limit = 50µg/m³)		PM2.5 Daily Result (24hr Average Limit = 25µg/m³)	PM10 Daily Result (µg/m³)			
5/12/2025	20.7	16.9	13.7	6.6	51.9	41.2	
6/12/2025	26.7	21.6	16.4	7.3	77.1	60.1	
7/12/2025	24.6	22.8	16.6	9.9	35.7	27.6	
8/12/2025	19.6	20.8	14.2	8.8	30.1	23.0	
9/12/2025	27.7	23.4	18.5	10.7	72.4	52.2	
10/12/2025	44.9	42.9	23.9	16.4	35.9	35.5	
11/12/2025	16.8	16.3	11.9	9.2	10.7	13.4	
12/12/2025	9.6	10.1	7.6	5.8	8.6	9.5	
13/12/2025	8.7	8.7	4.9	3.3	9.9	10.3	
14/12/2025	7.9	7.7	7.2	4.8	14.7	11.0	
15/12/2025	23.0	21.7	12.6	7.1	33.3	29.3	
16/12/2025	18.2	18.6	9.7	6.8	14.9	15.8	
17/12/2025	17.6	18.0	10.2	5.1	14.1	15.5	
18/12/2025	27.1	21.6	17.2	8.4	34.7	30.7	
19/12/2025	21.1	17.9	17.6	9.7	46.2	45.6	
20/12/2025	19.2	16.1	10.9	6.8	25.7	17.9	
21/12/2025	31.3	23.3	15.2	8.6	73.4	39.2	
22/12/2025	12.2	13.3	10.2	5.2	23.7	16.2	
23/12/2025	14.0	14.4	10.9	5.8	56.9	27.0	
24/12/2025	16.9	16.6	13.4	7.7	18.2	15.9	
25/12/2025	12.6	12.9	9.1	4.9	15.0	13.6	
26/12/2025	13.7	13.7	10.6	7.5	11.9	11.2	
27/12/2025	19.1	17.5	8.4	3.1	15.8	14.8	
28/12/2025	21.3	21.6	9.9	4.1	15.6	16.1	
29/12/2025	23.7	21.2	11.8	5.2	16.0	15.8	
30/12/2025	21.1	22.8	14.6	6.2	20.5	19.3	
31/12/2025	31.5	29.2	18.8	7.8	25.3	22.3	

Notes: All readings are cumulative (Moolarben Mine Contribution plus background). PM10 24 hour average criteria is cumulative. PM2.5 24 hour average criteria is Incremental Impact (Concentration due to Moolarben Mine Complex on its own). ^ TEOM06 and TEOM08 are used to measure “upwind” air quality when wind is in the direction of private residences. They are not representative of private residences.

Figure 3-c 2021 to 2025 TEOM Rolling Average

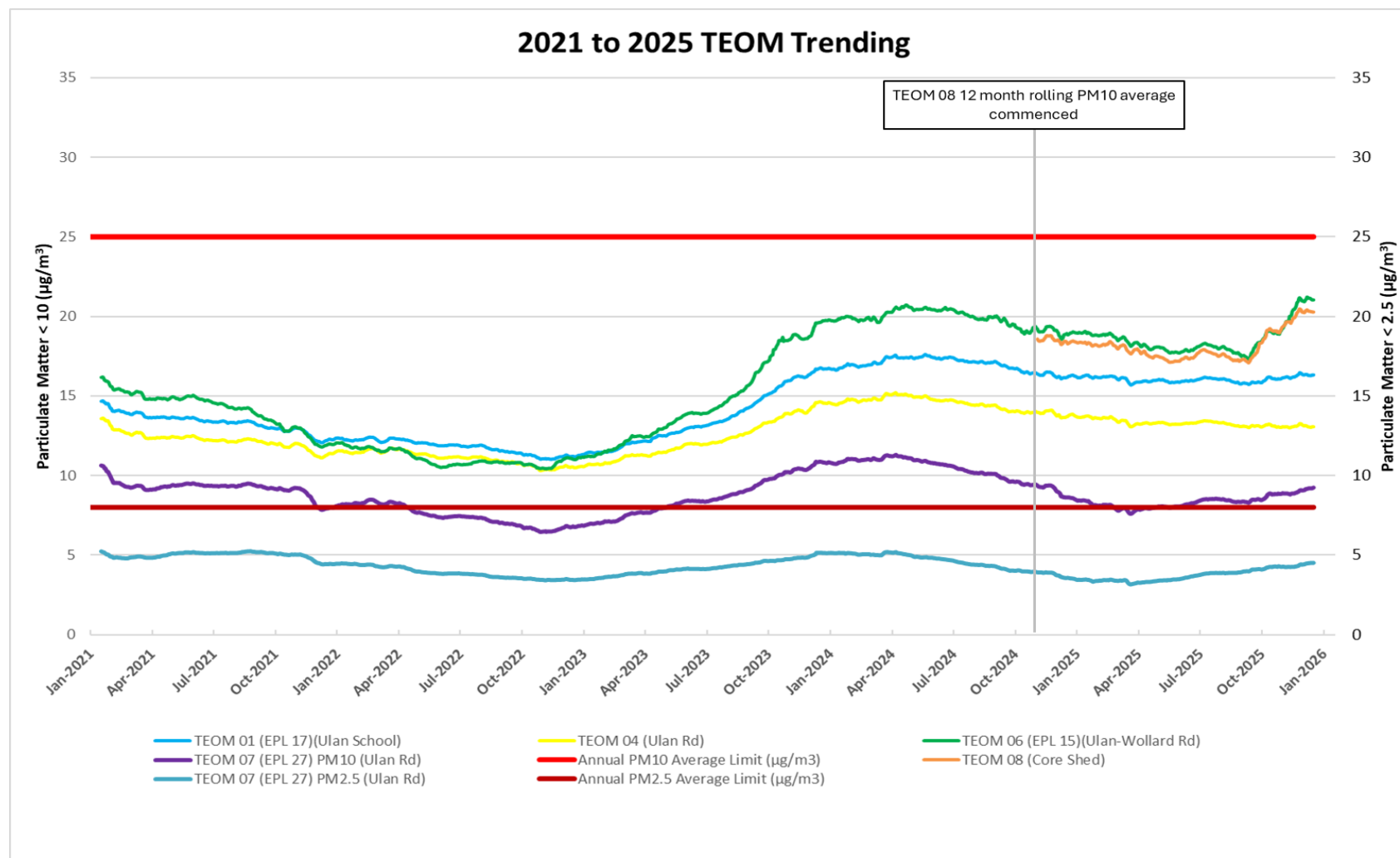


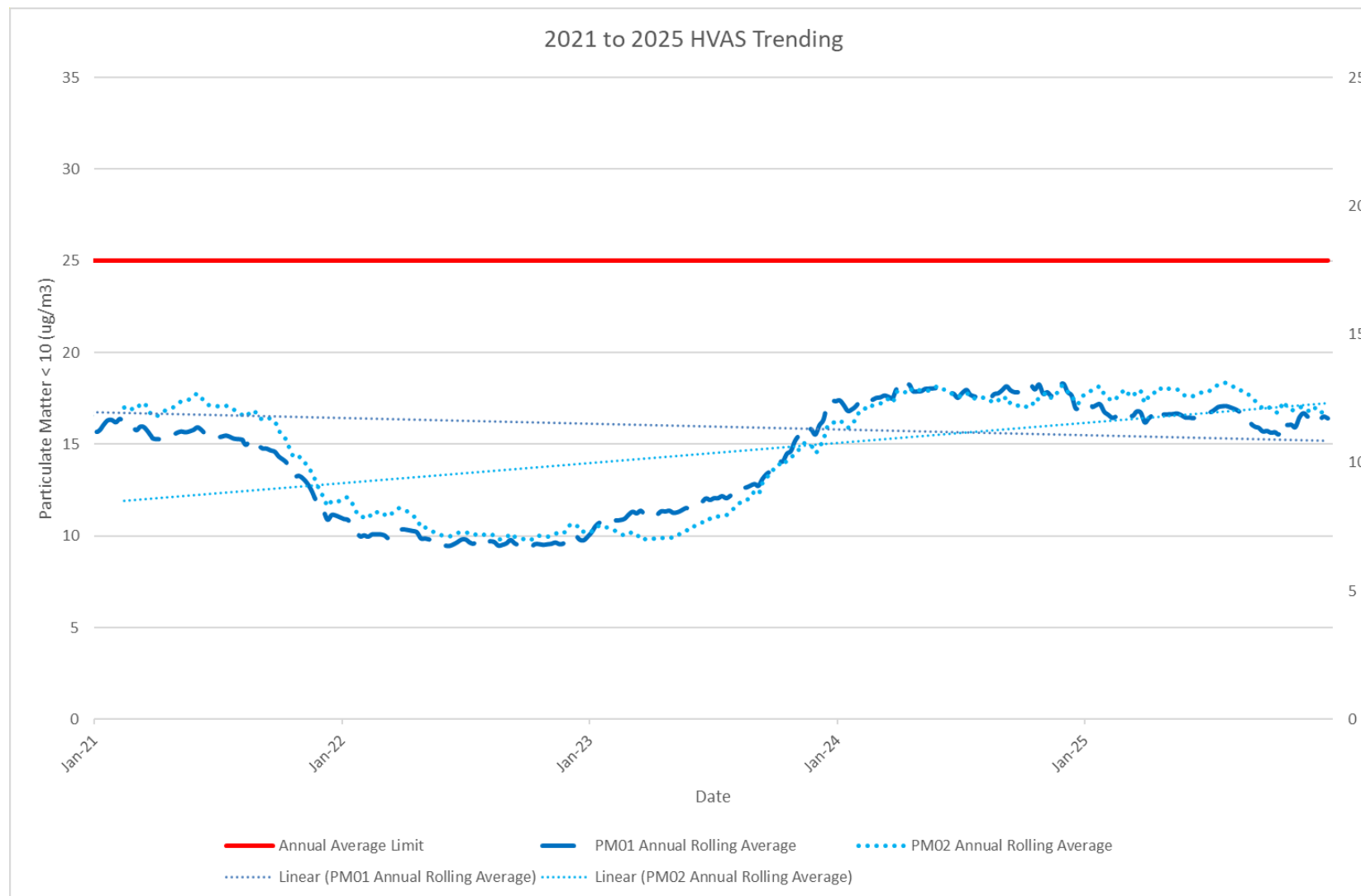
Table 3-d: HVAS Monitoring Results

Sampling Date	PM01 (EPL 16)	PM02
	Particulate Matter <10 µm (µg/m³)	Particulate Matter <10 µm (µg/m³)
06/01/2025	*	18.6
12/01/2025	8.3	20.4
18/01/2025	10.8	8.3
24/01/2025	16.2	18.8
30/01/2025	8.6	8.3
5/02/2025	11.3	11.2
11/02/2025	5	4.2
17/02/2025	17.6	20.8
23/02/2025	14.7	19.4
1/03/2025	23.2	27.9
7/03/2025	20.3	7.3
13/03/2025	14.3	15
19/03/2025	18.3	23.7
25/03/2025	11.3	8.7
31/03/2025	8.5	5.8
6/04/2025	12.3	16.9
12/04/2025	15.8	20.4
18/04/2025	10.9	13.5
24/04/2025	17.2	16.6
30/04/2025	6.7	4
6/05/2025	7.4	6.9
12/05/2025	9.1	6.2
18/05/2025	11.7	14.8
24/05/2025	5.5	5.5
30/05/2025	8	7.7
5/06/2025	3.4	4.6
11/06/2025	4.1	4.9
17/06/2025	7.2	8.7
23/06/2025	10	7.7
29/06/2025	10.3	8.4
5/07/2025	13.2	10.9
11/07/2025	8.6	9.4
17/07/2025	9.8	9.2
23/07/2025	4.1	5.9
29/07/2025	2.9	3.5
4/08/2025	6	6.4
10/08/2025	5.9	3.3
16/08/2025	3.7	4.6
22/08/2025	2.3	2
28/08/2025	2.1	2.4
3/09/2025	3	8.1
9/09/2025	3.6	6.7
15/09/2025	5.2	4.9

Sampling Date	PM01 (EPL 16)	PM02
	Particulate Matter <10 µm (µg/m³)	Particulate Matter <10 µm (µg/m³)
21/09/2025	2.9	4
27/09/2025	9.5	12.6
3/10/2025	11.6	12.4
9/10/2025	17.1	13.2
15/10/2025	12.6	13
21/10/2025	39.8	35.9
27/10/2025	15.2	12.6
2/11/2025	14.2	15.6
8/11/2025	19.1	19.6
14/11/2025	34	16.1
20/11/2025	24.9	19.3
26/11/2025	15.5	15
2/12/2025	4.1	3.9
8/12/2025	22.4	21.7
14/12/2025	7.4	6.4
20/12/2025	23	20.8
26/12/2025	10.6	9.9

*missed sample

Figure 3-d 2021 to 2025 HVAS Trending



APPENDIX 3E. BIODIVERSITY MONITORING DATA

Table 3-e 2025 Stage 1, Stage 1 Mod 9 and Stage 2 Autumn Flora Monitoring Results

BOA	Plot Number	Mean of Native Overstorey (%)	Mean of Native Mid Storey (%)	Native ground cover - Grass (%)	Native ground cover – Shrub (%)	Native ground cover – Other (%)	Exotic ground cover (%)	Litter (%)	Bare soil (%)	Cryptogram (%)
Area 1	14a	22.5	4.5	13	0	22	0	14	1	0
Area 1	14b	8.2	5.9	11	1	3	0	32	3	0
Area 1	1a	9.9	3.9	8	1	9	0	29	2	1
Area 1	1b	15.7	5.7	10	3	0	0	35	2	0
Area 1	21a	0	0	23	0	2	2	16	6	1
Area 1	21b	0	0.3	13	0	22	1	7	7	0
Area 1	24a	0	0	9	0	8	3	20	10	0
Area 1	24b	1	5	13	1	2	0	28	6	0
Area 1	2c	38	5.5	5	1	4	0	39	1	0
Area 1	2d	35.5	3	6	0	12	0	32	0	0
Area 1	4b	5	0	9	0	3	3	25	7	3
Area 1	4b	4.5	6.5	2	0	2	0	32	14	0
Area 1	5a	11	5.1	2	9	7	0	32	0	0
Area 1	5b	30.5	12.5	0	4	5	0	39	1	0
Area 1	5c	12.5	10	5	10	8	0	19	5	2
Area 1	6a	16	11.5	3	15	8	0	23	1	0
Area 1	6b	31.5	10.5	4	8	0	0	34	3	0
Area 1	7b	2.5	8.2	12	10	3	0	19	2	3
Area 1	9a	9.5	0	9	0	4	1	33	2	1
Area 1	9b	9	0	16	1	0	1	22	7	0
Area 2	10b	3.7	14.8	1	15	1	0	30	1	0
Area 2	11a	14.4	3	5	3	6	1	30	4	1
Area 2	11b	17.5	7.2	6	1	2	0	34	6	0
Area 2	11c	20	2.5	6	5	0	0	30	4	5
Area 2	11d	17	4.5	2	8	0	0	29	3	8
Area 2	13a	8.5	6	1	10	7	0	7	1	24

BOA	Plot Number	Mean of Native Overstorey (%)	Mean of Native Mid Storey (%)	Native ground cover - Grass (%)	Native ground cover – Shrub (%)	Native ground cover – Other (%)	Exotic ground cover (%)	Litter (%)	Bare soil (%)	Cryptogram (%)
Area 2	13e	9	7.8	2	23	0	0	20	3	2
Area 2	13g	16.8	4.6	0	3	5	0	39	1	0
Area 2	13h	14.67	2.22	4	14	3	0	28	1	0
Area 2	25a	0	2.5	7	1	5	3	17	16	1
Area 3	15a	6.5	15	3	3	24	0	16	3	1
Area 3	16a	0	1.9	2	13	3	0	20	5	7
Area 3	16b	0.2	1.8	8	20	3	0	15	1	3
Area 3	17a	15.5	3.5	3	25	1	0	16	1	4
Area 3	17b	1.7	5	2	15	8	0	19	3	3
Area 3	17c	6	9.5	3	16	1	0	23	1	6
Area 3	17d	0.5	4.2	2	20	4	0	17	1	6
Area 3	19a	3.3	7.1	11	10	3	0	18	7	1
Area 3	19b	3.7	2.1	16	7	1	0	21	2	1
Area 3	19c	15.5	4	2	3	7	0	31	1	2
Area 3	1e	18	1	17	4	5	0	19	1	4
Area 3	1f	4.67	1.11	12	6	7	0	23	1	1
Area 3	1h	14.2	13	24	7	4	0	15	0	0
Area 3	4e	15.3	1	36	0	2	0	10	1	1
Area 3	4f	2.7	0	27	0	2	0	15	5	1
Area 3	5e	12.2	9.2	5	11	7	0	25	1	1
Area 3	5h	14.7	2.6	8	14	7	0	20	1	0
Area 3	6c	7	6	10	0	4	0	22	8	0
Area 3	6d	8.5	1.8	1	1	5	0	40	3	0
Area 3	8a	13.5	5	4	13	2	0	27	4	0
Area 3	8c	26	2	0	1	4	0	44	1	0
Area 3	8d	16.5	7	10	10	4	0	25	1	0
Bobadeen	Mod9_FI8	0	0	30	0	0	14	3	3	0
Bobadeen	Mod9_FI9	0	1.7	32	0	0	12	3	3	0
Bobadeen	Mod9_FI7	5.5	0.5	14	0	2	32	2	0	0
Bobadeen	Mod9_FI6	0	8.1	10	1	12	17	9	1	0

BOA	Plot Number	Mean of Native Overstorey (%)	Mean of Native Mid Storey (%)	Native ground cover - Grass (%)	Native ground cover – Shrub (%)	Native ground cover – Other (%)	Exotic ground cover (%)	Litter (%)	Bare soil (%)	Cryptogram (%)
Bobadeen	Mod9_FI4	0	0	23	0	1	22	3	0	0
Bobadeen	Mod9_FI3	0	20.5	17	0	4	1	24	4	0
Bobadeen	Mod9_FI2	0	0	25	0	2	18	5	0	0
Bobadeen	Mod9_FI5	0	0	11	0	0	34	4	1	0
Clarke	Mod9_FI16	5.5	0	23	0	5	0	20	2	0
Clarke	Mod9_FI15	0	2	38	1	3	1	3	4	0
Property 24 & 25	Mod9_FI31	0	0	28	1	6	6	8	0	1
Property 24 & 25	Mod9_FI30	0	0	22	2	6	3	7	9	1
Property 5	Mod9_FI26	0	0	26	0	1	6	13	4	0
Property 5	Mod9_FI27	0	0	20	0	0	12	17	1	0
Moolarmoo	Mod9_FI34	0	0	39	0	1	2	4	2	2
Moolarmoo	Mod9_FI35	0	0	20	0	3	0	18	9	0
Dun Dun East	Stage2_FI71	0	0	27	1	4	1	14	3	0
Dun Dun East	Stage2_FI109	0	0	36	1	0	0	7	1	0
Dun Dun East	Stage2_FI110	0	0	10	1	15	5	19	0	0
Dun Dun East	Stage2_FI112	0	0	15	1	9	4	21	0	0
Dun Dun East	Stage2_FI111	0	0	20	0	2	3	21	3	0
Dun Dun East	Stage2_FI115	0	0	20	1	2	5	19	1	2
Dun Dun East	Stage2_FI114	0	0	15	0	0	11	21	3	0
Dun Dun East	Stage2_FI116	0	1	16	0	2	4	24	1	3
Dun Dun East	Stage2_FI37	0.7	0	11	0	3	5	29	2	0
Dun Dun West	Stage2_FI121	0	0	24	0	1	3	19	3	0
Dun Dun West	Stage2_FI17	0	0	30	0	3	3	9	0	0
Dun Dun West	Stage2_FI16	0	0	24	4	0	0	13	7	0
Dun Dun West	Stage2_FI120	0	0	18	0	14	12	5	1	0
Libertus	Stage2_FI130	0	0	22	0	3	4	14	7	0
Libertus	Stage2_FI129	0	0	37	0	2	1	6	4	0
Old Bobadeen	Stage2_FI156	0	0	26	0	2	6	16	0	0
Old Bobadeen	Stage2_FI52	0	0	35	0	0	9	6	0	0

BOA	Plot Number	Mean of Native Overstorey (%)	Mean of Native Mid Storey (%)	Native ground cover - Grass (%)	Native ground cover – Shrub (%)	Native ground cover – Other (%)	Exotic ground cover (%)	Litter (%)	Bare soil (%)	Cryptogram (%)
Old Bobadeen	Stage2_Fl153	0	0	6	0	15	18	11	0	0
Old Bobadeen	Stage2_Fl154	0	0	18	0	1	10	21	0	0
Onsite Offset	Stage2_Fl141	0	0	19	0	3	5	9	6	0
Onsite Offset	Stage2_Fl137	0	0	13	0	0	18	17	2	0
Onsite Offset	Stage2_Fl136	0	4	23	0	4	2	16	5	0
Onsite Offset	Stage2_Fl164	0	0	24	0	2	1	20	3	0
Onsite Offset	Stage2_Fl169	0	4	25	2	3	0	16	4	0
Ulan 18	Stage2_Fl143	0	0	42	0	2	1	3	2	0
Ulan 18	Stage2_Fl155	0	0	38	0	0	5	6	1	0
Ulan 18	Stage2_Fl145	0	0	10	0	7	15	15	3	0

Table 3-f: 2025 Surface water quality data

Sample Point	Sample Date	pH (Field) (Unit)	pH (Lab) (Unit)	EC (Field) (µS/cm)	EC (Lab) (µS/cm)	TSS (mg/L)	TDS (mg/L)	Temperature (°C)	Turbidity (Lab) (NTU)	Turbidity (Field) (NTU)	Al - T (mg/L)	Cu - T (mg/L)	Pb - T (mg/L)	Zn - T (mg/L)	Ni - T (mg/L)	Fe - T (mg/L)	Mn - T (mg/L)	As - T (mg/L)	Se - T (mg/L)	Cd - T (mg/L)	Cr - T (mg/L)	Li (mg/L)	Ba - T (mg/L)	Sr (mg/L)	DO (mg/L)	N - T (mg/L)	P - T (mg/L)	As - D (mg/L)	Cd - D (mg/L)	Ni - D (mg/L)	Cu - D (mg/L)	Pb - D (mg/L)	Mn - D (mg/L)	Al - D (mg/L)	Zn - D (mg/L)
SW01	9/01/2025*	8.05	8.1	668	682.9	24	526	18.9	15.5	10.77				<0.005		1.17																			
SW01	15/01/2025	7.57	7.57	645	467.2	11	396	21.5	14	13.86	0.45	<0.001	<0.001	<0.005	0.007	0.73	0.125	<0.001	<0.01	<0.0001	<0.001	0.148	0.026	0.136	9.26	0.4	0.07	<0.001	<0.0001	0.006	<0.001	<0.001	0.048	<0.01	<0.005
SW01	4/02/2025	7.57	8.28	685	718	<5	470	23.3	8.8	7.38	0.15	0.002	<0.001	<0.005	0.007	0.66	0.069	<0.001		<0.0001								<0.001	<0.0001	0.006	<0.001	<0.001	0.033	<0.01	<0.005
SW01	12/02/2025*	8.14	8.13	529	542.4	<5	323	24.2	11.4	10.74				0.008		0.86																			
SW01	4/03/2025	8.16	8.06	696	641.1	<5	400	25.7	3.7	3.71	0.1	<0.001	<0.001	<0.005	0.007	0.36	0.043	<0.001		<0.0001								<0.001	<0.0001	0.006	<0.001	<0.001	0.028	<0.01	<0.005
SW01	30/03/2025*	8.15	8.1	643	659.5	<5	376	7.16	7.1	7.16				<0.005		0.48																			
SW01	2/04/2025	8.36	8.06	656	737.4	20	401	19.2	2.4	2.27	0.04	<0.001	<0.001	<0.005	0.006	0.25	0.02	<0.001		<0.0001								<0.001	<0.0001	0.006	<0.001	<0.001	0.015	<0.01	<0.005
SW01	8/05/2025	8.32	8.4	600	645.6	<5	356	18	3.3	2.68	0.1	<0.001	<0.001	<0.005	0.008	0.28	0.02	<0.001		0.0003								<0.001	<0.0001	0.006	<0.001	<0.001	0.006	<0.01	<0.005
SW01	27/05/2025*	8.02	6.95	410	526.1	34	254	12.5	69.2	88.4				0.005		1.11																			
SW01	11/06/2025	8.76	8.17	634	778.8	<5	435	10.6	2.1	2.25	0.04	<0.001	<0.001	<0.005	0.006	0.21	0.007	<0.001	<0.01	<0.0001	<0.001	0.105	0.028	0.144	11.11	0.2	0.03	<0.001	<0.0001	0.006	<0.001	<0.001	0.003	<0.01	<0.005
SW01	9/07/2025	8.22	7.89	691	780.8	<5	416	4.7	2.5	3.21	0.03	<0.001	<0.001	<0.005	0.006	0.2	0.008	<0.001		<0.0001								<0.001	<0.0001	0.006	<0.001	<0.001	0.003	<0.01	<0.005
SW01	13/08/2025	8.25	7.33	609	624.8	<5	422	13.7	2.3	2.09	0.06	<0.001	<0.001	<0.005	0.006	0.15	0.006	<0.001		<0.0001								<0.001	<0.0001	0.005	<0.001	<0.001	0.002	<0.01	<0.005
SW01	9/09/2025	8.27	8.02	598	696.1	<5	376	17.9	3.2	3.79	0.09	<0.001	<0.001	<0.005	0.006	0.2	0.02	<0.001		<0.0001								<0.001	<0.0001	0.005	<0.001	<0.001	0.004	<0.01	<0.005
SW01	11/09/2025*	7.8	7.73	495	571.5	29	338	12.7	60.8	67.2				0.007		2.5																			
SW01	8/10/2025	8.19	7.96	524	630.3	<5	336	21.6	7.7	7.69	0.11	<0.001	<0.001	<0.005	0.006	0.36	0.046	<0.001		<0.0001								<0.001	<0.0001	0.005	<0.001	<0.001	0.007	<0.01	<0.005
SW01	6/11/2025	8.22	8.23	675	759.1	<5	380	21.2	2.4	3.39	0.09	<0.001	<0.001	<0.005	0.005	0.18	0.023	<0.001		<0.0001								<0.001	<0.0001	0.005	<0.001	<0.001	0.012	<0.01	<0.005
SW01	10/12/2025	7.7	7.71	803	892.3	<5	518	20.8	1	1.83	0.03	<0.001	<0.001	<0.005	0.005	0.11	0.065	<0.001		<0.0001								<0.001	<0.0001	0.005	<0.001	<0.001	0.064	<0.01	<0.005
SW02	9/01/2025*	8.11	8.1	654	605.2	7	437	19.6	10.3	10.76				<0.005		0.87																			
SW02	15/01/2025	7.91	7.64	634	435.8	9	394	21.4	13.2	12.01	<0.01	<0.001	<0.001	<0.005	0.006	0.06	0.055	<0.001	<0.01	<0.0001	<0.001	0.146	0.023	0.139	9.22	0.3	0.07								
SW02	4/02/2025	8.07	8.43	690	710	7	450	23.5	10.6	8.08	0.18	<0.001	<0.001	<0.005	0.008	0.66	0.081	<0.001		<0.0001															
SW02	12/02/2025*	8.22	8.22	519	542.9	<5	324	23.7	14.7	11.72				<0.005		0.91																			
SW02	4/03/2025	8.29	8	681	652.9	<5	377	25.5	5.1	4.64	0.12	<0.001	<0.001	<0.005	0.007	0.49	0.056	<0.001		<0.0001															
SW02	30/03/2025*	8.18	8.16	620	664.4	<5	400	18.3	6.7	7.08				<0.005		0.5																			
SW02	2/04/2025	8.44	8.24	657	747.3	<5	424	19.2	2.9	3.13	0.05	<0.001	<0.001	<0.005	0.007	0.29	0.025	<0.001		<0.0001															
SW02	8/05/2025	8.5	8.6	593	651.3	<5	364	17.3	3	2.32	0.08	<0.001	<0.001	<0.005	0.006	0.24	0.015	<0.001		0.0002															
SW02	27/05/2025*	7.92	7.05	400	499.6	34	245	11.9	60.3	88.5				0.006		0.68																			
SW02	11/06/2025	8.56	8.04	632	755.3	<5	428	10.2	2.6	2.81	0.06	<0.001	<0.001	<0.005	0.005	0.21	0.015	<0.001	<0.01	<0.0001	<0.001	0.103	0.027	0.142	11.43	<0.1	0.02								
SW02	9/07/2025	8.23	7.73	680	784.7	<5	432	4.3	3.1	3.1	0.07	<0.001	<0.001	<0.005	0.006	0.21	0.011	<0.001		<0.0001															
SW02	13/08/2025	8.25	7.71	597	604.1	<5	405	16.1	2.5	2.86	0.07	<0.001	<0.001	<0.005	0.006	0.17	0.011	<0.001		<0.0001															
SW02	9/09/2025	8.25	7.63	586	674.1	<5	396	15.3	4.6	7.99	0.15	<0.001	<0.001	<0.005	0.005	0.29	0.05	<0.001		<0.0001															
SW02	11/09/2025*	7.86	7.78	484	543.6	34	352	12.5	64.2	74.2				0.008		2.87																			
SW02	8/10/2025	8.27	8.15	502	613.2	<5	319	18.3	8.6	10.25	0.15	<0.001	<0.001	<0.005	0.006	0.4	0.068	<0.001		<0.0001															
SW02	6/11/2025	8.23	7.96	678	776	<5	380	18.7	4.8	7.9	0.16	<0.001	<0.001	<0.005	0.005	0.33	0.078	<0.001		<0.0001															
SW02	10/12/2025	7.69	6.97	818	915.5	<5	525	20.4	1.8	2.56	0.04	<0.001	<0.001	<0.005	0.006	0.15	0.106	<0.001		<0.0001															
SW04	27/05/2025*	6.68	6.83	131	156.5	114	240	11.9	242	341				0.036		3.09																			
SW04	13/08/2025	7.02	6.79	298	326.9	26	266	6.9	49.9	51.8																									
SW04	11/09/2025*	6.58	6.82	164	184.3	67	202	11.1	145	139				0.021		4.73																			
SW05	9/01/2025*	7.63	7.1	644	634	13	459	21.1	10.8	12.52				<0.005		0.98																			

Sample Point	Sample Date	pH (Field) (Unit)	pH (Lab) (Unit)	EC (Field) (µS/cm)	EC (Lab) (µS/cm)	TSS (mg/L)	TDS (mg/L)	Temperature (°C)	Turbidity (Lab) (NTU)	Turbidity (Field) (NTU)	Al - T (mg/L)	Cu - T (mg/L)	Pb - T (mg/L)	Zn - T (mg/L)	Ni - T (mg/L)	Fe - T (mg/L)	Mn - T (mg/L)	As - T (mg/L)	Se - T (mg/L)	Cd - T (mg/L)	Cr - T (mg/L)	Li (mg/L)	Ba - T (mg/L)	Sr (mg/L)	DO (mg/L)	N - T (mg/L)	P - T (mg/L)	As - D (mg/L)	Cd - D (mg/L)	Ni - D (mg/L)	Cu - D (mg/L)	Pb - D (mg/L)	Mn - D (mg/L)	Al - D (mg/L)	Zn - D (mg/L)	
SW05	4/02/2025	7.21	7.5	652	695.8	7	424	25	4.8	3.54	0.09	<0.001	<0.001	<0.005	0.002	0.88	1.86	0.002		<0.0001	<0.001	0.004	0.051	0.21		1.1	0.08									
SW05	12/02/2025*	7.12	7.63	543	553.3	8	366	22	12.4	10.38				<0.005		1.2																				
SW05	4/03/2025	7.19	7.52	618	557.4	<5	368	25.1	5.7	4.96	0.24	<0.001	<0.001	<0.005	0.001	1.04	1.25	0.002		<0.0001	<0.001	0.004	0.049	0.185		1.1	0.06									
SW05	30/03/2025*	7.25	7.53	525	557.6	10	286	20	10.6	10.76				<0.005		1.17																				
SW05	2/04/2025	7.03	7.79	504	559.1	<5	374	18.1	5.2	5.2	0.16	<0.001	<0.001	<0.005	0.001	0.89	0.689	0.001		<0.0001	<0.001	0.004	0.038	0.142		0.8	0.04									
SW05	8/05/2025	7.29	7.1	502	571.6	<5	338	13.3	10.7	9.36	0.26	<0.001	<0.001	<0.005	<0.001	0.88	0.246	0.002		0.0002	<0.001	0.003	0.036	0.137		23.5	0.03									
SW05	27/05/2025*	7.04	7.32	463	584	10	294	11.2	17.8	23				<0.005		0.91																				
SW05	11/06/2025	7.41	7.51	515	607.4	22	324	9.5	40.5	42.3	1.32	<0.001	0.002	0.009	0.002	2.05	0.17	0.001	<0.01	<0.0001	0.002	0.003	0.033	0.134	7.45	0.8	0.06									
SW05	9/07/2025	7.33	7.01	561	633	11	368	5.4	28.6	31.7	1.39	0.001	0.001	<0.005	0.001	1.84	0.14	<0.001		<0.0001	0.001	0.004	0.031	0.135		0.8	0.04									
SW05	13/08/2025	7.06	6.8	836	925.8	15	574	11.3	31.5	31	1.26	<0.001	0.001	<0.005	0.002	1.81	0.268	<0.001		<0.0001	0.001	0.005	0.046	0.231		0.9	0.07									
SW05	9/09/2025	7.16	7.93	844	954.7	27	537	15.5	27.6	29.1	1.05	<0.001	0.001	<0.005	0.001	1.89	0.362	<0.001		<0.0001	<0.001	0.003	0.045	0.245		0.9	0.09									
SW05	11/09/2025*	7.32	7.6	738	851.8	19	423	12	25.2	24				<0.005		1.72																				
SW05	8/10/2025	7.2	7.7	1040	1234	21	676	19.8	22	22.9	0.78	<0.001	<0.001	<0.005	0.002	1.44	0.743	0.001		<0.0001	<0.001	0.004	0.046	0.315		0.9	0.04									
SW05	6/11/2025	7.22	7.67	965	1200	18		13	17.4	18.8	0.56	<0.001	<0.001	<0.005	0.002	1.5	0.562	0.002		<0.0001	<0.001	<0.001	0.047	0.243		0.9	0.02									
SW05	10/12/2025	7.34	7.74	899	982.6	8	544	21.2	20	17.55	0.27	<0.001	<0.001	<0.005	<0.001	0.78	0.344	0.001		<0.0001	<0.001	0.004	0.04	0.251		0.8	0.02									
SW07	27/05/2025*	6.13	6.31	1900	2361	<5	1210	11.2	4.5	3.74				0.027		0.38																				
SW07	11/09/2025*	7.39	7.7	1580	1870	6	1000	10.2	4.4	4.37				<0.005		0.37																				
SW08	9/01/2025*	6.54	6.4	1800	1831	37	1190	21.6	101	128				<0.005		10.6																				
SW08	15/01/2025	6.76	6.91	1970	1313	9	1260	25.6	45.1	51.6	0.02	<0.001	<0.001	<0.005	0.007	4.09	3.92	<0.001	<0.01	<0.0001	<0.001	0.008	0.091	0.433	4.58	1.2	0.15									
SW08	4/02/2025	6.71	8.11	1870	1756	<5	1110	21.1	15.6	33.2																										
SW08	12/02/2025*	6.41	6.62	1540	1637	14	1010	18.3	110	93.5				0.007		10.3																				
SW08	4/03/2025	6.5	7.07	1760	1697	<5	1040	20.1	22.4	23																										
SW08	30/03/2025*	6.02	7	1470	1519	12	787	21.4	30.2	43.2				<0.005		2.52																				
SW08	2/04/2025	6.34	7.08	1440	1621	13	891	18.5	49.3	63.9																	0.5	0.1								
SW08	8/05/2025	6.14	6.2	1390	1764	8	870	11.2	19.8	24.6																										
SW08	27/05/2025*	6.18	6.69	1,540	1903	14	1060	10.5	29.3	32.8				0.009		2.38																				
SW08	11/06/2025	6.32	6.95	2340	2709	<5	1190	8	16.1	14.52	0.02	<0.001	<0.001	0.006	0.01	2.1	0.689	<0.001	<0.01	<0.0001	0.001	0.006	0.066	0.502	5.82	0.4	0.04									
SW08	9/07/2025	6.54	6.93	3100	3257	<5	1980	11	8.5	10.17																										
SW08	13/08/2025	6.75	7.08	2480	3030	<5	1560	5.6	7.5	7.94																										
SW08	9/09/2025	6.73	7.88	2480	2883	<5	1580	12.5	7.6	10.07																										
SW08	11/09/2025*	7.48	7.8	1830	2259	6	1140	10.4	9.4	10.9				<0.005		1.04																				
SW08	8/10/2025	6.84	7.35	2250	3023	<5	1470	13.3	12.2	10.03																	0.6	0.03								
SW08	6/11/2025	6.81	7.34	2270	2884	<5	1370	10.9	17.3	20.6																										
SW08	10/12/2025	7.06	7.21	1770	1989	16	1190	20.4	8.8	8.36																										
SW09	9/01/2025*	6.9	6.8	2330	771.1	40	1570	23.7	65.6	68.9				<0.005		8.55																				
SW09	4/02/2025	7.04	8.53	2270	2212	16	1900	21.1	125	119																										
SW09	12/02/2025*	6.79	7.54	2440	2270	13	1490	23.5	91.5	100				<0.005		8.95																				
SW09	4/03/2025	7.09	7.93	2270	2249	18	1400	20.3	74.5	62.4																										
SW09	30/03/2025*	7.05	7.43	2440	2508	28	1340	22	71.9	59.3				<0.005		7.26																				
SW09	2/04/2025	6.93	7.6	2240	2413	48	1380	19.5	74.1	52.3																										
SW09	8/05/2025	6.83	6.9	2300	2,453	20	1300	11.2	17.3	10.8																										

Sample Point	Sample Date	pH (Field) (Unit)	pH (Lab) (Unit)	EC (Field) (µS/cm)	EC (Lab) (µS/cm)	TSS (mg/L)	TDS (mg/L)	Temperature (°C)	Turbidity (Lab) (NTU)	Turbidity (Field) (NTU)	Al - T (mg/L)	Cu - T (mg/L)	Pb - T (mg/L)	Zn - T (mg/L)	Ni - T (mg/L)	Fe - T (mg/L)	Mn - T (mg/L)	As - T (mg/L)	Se - T (mg/L)	Cd - T (mg/L)	Cr - T (mg/L)	Li (mg/L)	Ba - T (mg/L)	Sr (mg/L)	DO (mg/L)	N - T (mg/L)	P - T (mg/L)	As - D (mg/L)	Cd - D (mg/L)	Ni - D (mg/L)	Cu - D (mg/L)	Pb - D (mg/L)	Mn - D (mg/L)	Al - D (mg/L)	Zn - D (mg/L)
SW09	27/05/2025*	6.64	7.17	2340	2871	18	1430	10.8	17.7	6.06				<0.005		7.28																			
SW09	11/06/2025	6.78	7.61	2710	3223	14	1,460	8.7	43.4	14.22	<0.01	0.006	<0.001	<0.005	0.001	6.62	8.24	<0.001	<0.01	<0.0001	0.001	<0.001	0.181	0.82	2.69	0.4	0.08								
SW09	9/07/2025	6.74	7.28	2630	2878	28	1760	10.3	70.5	7.23																									
SW09	13/08/2025	6.8	7.46	2590	3227	30	1660	6.5	99	29.8																									
SW09	9/09/2025	6.63	7.45	2560	3020	30	1630	12.5	104	13.39																									
SW09	11/09/2025*	7.17	7.4	878	1049	10	562	9	33.6	32.1				0.012		2.03																			
SW09	8/10/2025	6.83	7.27	2330	3164	39	1590	13.4	93	14.95																									
SW09	6/11/2025	6.95	7.75	2440	3025	15	1460	11	41	39.7																									
SW09	10/12/2025	7.08	7.51	2460	2781	16	1490	20.4	34.1	46.6																									
SW12	9/01/2025*	7.29	7.1	403	132.5	16	290	23.1	27	27.1				<0.005		1.94																			
SW12	15/01/2025	7.27	7.27	413	134.3	<5	273	30.8	24.3	18.7	0.12	<0.001	<0.001	<0.005	<0.001	1.47	0.335	0.001	<0.01	<0.0001	<0.001	0.003	0.022	0.116	6.03	0.8	0.08								
SW12	4/02/2025	7.18	7.34	376	380.2	14	244	25.5	15.7	14.2	0.09	<0.001	<0.001	<0.005	<0.001	1.8	0.851	0.001		<0.0001	<0.001	0.004	0.023	0.115		0.5	0.04								
SW12	12/02/2025*	7.27	7.55	349	358.5	18	302	21.7	81.3	78.4				0.007		2.55																			
SW12	4/03/2025	7.06	7.16	414	382.9	13	260	26.3	22	17.36	0.77	<0.001	<0.001	<0.005	0.001	2.86	0.852	0.002		<0.0001	<0.001	0.003	0.028	0.12		0.7	0.05								
SW12	30/03/2025*	7.23	7.39	254	257.4	26	156	20	44.6	43.9				<0.005		2.98																			
SW12	2/04/2025	7.01	7.59	321	354.1	7	249	17.4	23.2	22.9	0.86	<0.001	<0.001	<0.005	0.001	1.77	0.293	<0.001		<0.0001	<0.001	0.004	0.024	0.086		0.5	0.02								
SW12	8/05/2025	7.18	7	327	361.1	6	224	15.8	22.8	23.5	0.89	<0.001	<0.001	<0.005	<0.001	1.53	0.183	<0.001		<0.0001	<0.001	0.003	0.021	0.084		0.6	<0.01								
SW12	27/05/2025*	7.24	6.6	252	316.2	174	433	11.5	357	530				0.015		11.4																			
SW12	11/06/2025	7.16	7.62	430	503.6	6	304	9.1	49.2	47.8	2.37	<0.001	0.002	<0.005	0.002	2.74	0.107	<0.001	<0.01	<0.0001	0.004	0.004	0.029	0.105	8.85	0.6	0.05								
SW12	9/07/2025	7.1	7.42	429	451.6	<5	330	6.1	46.3	49.3	2.53	<0.001	0.001	<0.005	<0.001	2.5	0.094	<0.001		<0.0001	0.002	0.004	0.026	0.097		0.5	0.04								
SW12	13/08/2025	7.12	6.8	531	532.2	8	428	11.3	58	56.8	2.65	<0.001	0.002	<0.005	0.001	2.72	0.173	<0.001		<0.0001	0.002	0.005	0.034	0.138		0.7	0.06								
SW12	9/09/2025	6.97	7.67	531	631.1	14	400	13.3	40.7	37.4	2.05	<0.001	0.002	<0.005	0.002	2.33	0.26	<0.001		<0.0001	0.002	0.004	0.034	0.15		1	0.04								
SW12	11/09/2025*	7.23	7.3	535	621.4	29	407	12.2	115	128				0.008		4.7																			
SW12	8/10/2025	7.31	7.49	707	846	16	470	21.4	29.2	27.7	0.65	<0.001	0.001	<0.005	0.001	1.45	0.367	<0.001		<0.0001	<0.001	0.004	0.033	0.201		0.7	0.06								
SW12	6/11/2025	7.19	7.5	538	632	10		13.7	18.7	21	0.9	<0.001	<0.001	<0.005	0.001	1.53	0.492	0.001		<0.0001	<0.001	0.003	0.03	0.127		0.5	0.02								
SW12	10/12/2025	7.27	7.45	786	870.1	12	490	20.1	12.5	15.13	0.55	<0.001	<0.001	0.006	<0.001	0.74	0.505	<0.001		<0.0001	<0.001	0.004	0.04	0.213		0.6	<0.01								
SW15	11/09/2025*	6.27	6.27	75	66.5	12	188	11.1	118	100				0.012		3.12																			
SW16	27/05/2025*	6.86	6.98	135	161.7	60	216	11.6	143	194				0.027		2.1																			
SW16	11/09/2025*	6.57	6.56	103	101.9	29	210	11.3	124	117				0.017		3.39																			
SW17	27/05/2025*	6.05	6.35	159	192.5	144	614	14.2	845	862				0.046		11.1																			
SW18	11/09/2025*	6.49	6.53	142	151.4	28	196	10.3	123	120				0.174		3.59																			
SW22	9/01/2025*	8.2	8.2	656	637.8	10	404	20.4	6.9	8.75				<0.005		0.7																			
SW22	15/01/2025	8.19	7.58	678	396.6	6	388	24.5	13.8	12.29	0.16	<0.001	<0.001	0.006	0.007	0.75	0.116	<0.001	<0.01	<0.0001	<0.001	0.162	0.026	0.144	4.8	0.3	0.19								
SW22	4/02/2025	8.18	8.48	692	690.4	<5	420	27.2	7.6	6.11	0.16	<0.001	<0.001	<0.005	0.007	0.54	0.049	<0.001		<0.0001															
SW22	12/02/2025*	7.83	8.01	550	541.6	<5	338	18.3	15.8	13.62				0.007		0.77																			
SW22	4/03/2025	8.36	8.03	696	659.4	<5	370	25.7	4.4	2.53	0.11	<0.001	<0.001	<0.005	0.007	0.35	0.041	<0.001		<0.0001															
SW22	30/03/2025*	8.32	8.22																																

Sample Point	Sample Date	pH (Field) (Unit)	pH (Lab) (Unit)	EC (Field) (µS/cm)	EC (Lab) (µS/cm)	TSS (mg/L)	TDS (mg/L)	Temperature (°C)	Turbidity (Lab) (NTU)	Turbidity (Field) (NTU)	Al - T (mg/L)	Cu - T (mg/L)	Pb - T (mg/L)	Zn - T (mg/L)	Ni - T (mg/L)	Fe - T (mg/L)	Mn - T (mg/L)	As - T (mg/L)	Se - T (mg/L)	Cd - T (mg/L)	Cr - T (mg/L)	Li (mg/L)	Ba - T (mg/L)	Sr (mg/L)	DO (mg/L)	N - T (mg/L)	P - T (mg/L)	As - D (mg/L)	Cd - D (mg/L)	Ni - D (mg/L)	Cu - D (mg/L)	Pb - D (mg/L)	Mn - D (mg/L)	Al - D (mg/L)	Zn - D (mg/L)
SW22	9/07/2025	8.21	7.73	691	774.2	<5	428	5.2	2.7	3.92	0.07	<0.001	<0.001	<0.005	0.006	0.2	0.01	<0.001		<0.0001															
SW22	13/08/2025	8.29	7.54	616	665.7	<5	396	12.7	2.3	2.24	0.05	<0.001	<0.001	<0.005	0.006	0.25	0.006	<0.001		<0.0001															
SW22	9/09/2025	8.37	7.72	604	686.2	<5	372	17	3	3.26	0.09	<0.001	<0.001	0.005	0.005	0.18	0.016	<0.001		<0.0001															
SW22	11/09/2025*	7.93	7.8	485	559.7	34	311	12.8	63.1	69.4				0.011		2.58																			
SW22	8/10/2025	8.21	7.96	513	622.9	<5	324	17.9	6.6	7.99	0.12	<0.001	<0.001	<0.005	0.005	0.32	0.051	<0.001		<0.0001															
SW22	6/11/2025	8.44	8.15	669	763.4	<5	376	20.8	2.1	2.79	0.06	<0.001	<0.001	<0.005	0.005	0.15	0.02	<0.001		<0.0001															
SW22	10/12/2025	7.55	6.96	802	901.9	<5	510	20.2	0.7	1.34	0.02	<0.001	<0.001	<0.005	0.005	<0.05	0.022	<0.001		<0.0001															

Notes:
Sampling events where location was too low to sample have not been included.
* Denotes Rainfall Event sampling.
^ Data invalidated.

Figure 3-e Stream Health Trending data

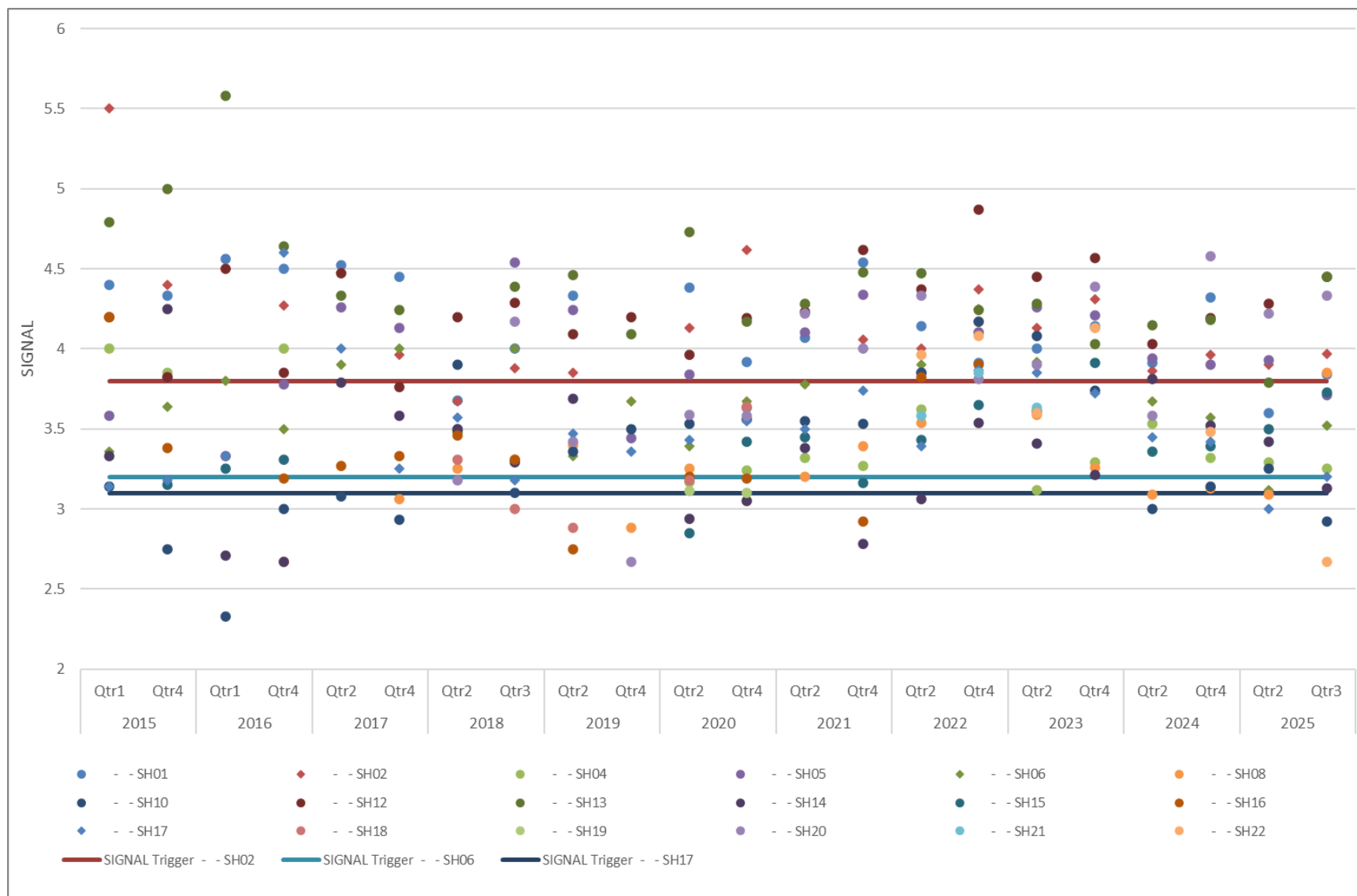




Table 3-g: Effluent Discharge Quality

Sample Location	Sample Date	Biological Oxygen Demand (mg/L)	Total Nitrogen (mg/L)	Oil & Grease (mg/L)	Total Phosphorus (mg/L)	pH	Total Suspended Solids (mg/L)
OC Effluent Tank	25/02/2025	29	95.7	12	16.3	7.81	65
OC Effluent Tank	14/05/2025	26	67.5	<5	9.1	7.63	29
OC Effluent Tank	20/08/2025	87	148	<5	17.5	7.53	61
OC Effluent Tank	18/11/2025	79	70.6	<5	10.5	7	67
Admin Effluent	10/03/2025	<2	13.5	<5	21.1	7.03	8
Admin Effluent	14/05/2025	<2	30.9	<5	18.4	7.42	4
Admin Effluent	20/08/2025	9	163	<5	22.7	8.1	26
Admin Effluent	18/11/2025	9	27.9	<5	16.5	7.72	18
CHPP Effluent	10/03/2025	16	5.8	<5	0.48	7.06	26
CHPP Effluent	14/05/2025	23	4.8	<5	1.3	7.02	24
CHPP Effluent	20/08/2025	22	4.3	<5	0.16	7.12	21
CHPP Effluent	18/11/2025	33	5.3	<5	0.68	7.21	47
UG Effluent Tank	25/02/2025	28	24.2	11	4.28	6.8	61
UG Effluent Tank	15/05/2025	59	15.2	<5	1.52	6.87	21
UG Effluent Tank	20/08/2025	63	9.3	<5	0.55	7.08	13
UG Effluent Tank	18/11/2025	113	9.1	<5	0.72	7.46	219

Figure 3-f 2025 Stream Flow and Rainfall



Table 3-h LDP01 Discharge Quality

[illegible]

[illegible]

[illegible]

Date	Flow (ML)	Electrical Conductivity - Field (µS/cm)	pH (Field) (Unit)	Turbidity (NTU)	Oil & Grease	Total Suspended Solids (mg/L)	Aluminium – Dissolved (mg/L)	Manganese – Dissolved (mg/L)	Nickel – Dissolved (mg/L)	Zinc – Dissolved (mg/L)	Copper – Dissolved (mg/L)	Cadmium – Dissolved (mg/L)	Arsenic – Dissolved (mg/L)	Lead – Dissolved (mg/L)
22/04/2025	6.9	140.5	6.9	0.0	<5	<1								
23/04/2025	6.8	128.8	6.8	0.0										
24/04/2025	7.0	133.3	7.0	0.0										
25/04/2025	7.0	134.8	7.0	0.0										
26/04/2025	7.0	135.8	7.0	0.0										
27/04/2025	6.9	136.2	6.9	0.0										
28/04/2025	7.0	151.7	7.0	0.0	<5	<1	<5	<0.0005	<0.0005	4	<0.0005	<0.05	<0.0002	<0.0001
29/04/2025	6.8	157.0	6.8	0.0										
30/04/2025	7.1	218.0	7.1	0.0										
1/05/2025	7.1	258.0	7.1	0.0										
2/05/2025	7.2	245.4	7.2	0.0										
3/05/2025	7.2	222.4	7.2	0.0										
4/05/2025	7.3	234.3	7.3	0.0										
5/05/2025	7.3	247.5	7.3	0.0	<5	<1	<5	0.0005	<0.0005	3	<0.0005	<0.05	<0.0002	<0.0001
6/05/2025	7.2	232.9	7.2	0.0										
7/05/2025	7.2	212.3	7.2	0.0										
8/05/2025	7.2	216.4	7.2	0.0										
9/05/2025	7.4	176.2	7.4	0.0										
10/05/2025	7.3	176.4	7.3	0.0										
11/05/2025	7.3	171.1	7.3	0.0										
12/05/2025	7.3	179.5	7.3	0.0	<5	<1								
13/05/2025	7.3	194.9	7.3	0.0										
14/05/2025	7.4	245.1	7.4	0.0										
15/05/2025	7.4	234.4	7.4	0.0										
16/05/2025	7.3	236.3	7.3	0.0										
17/05/2025	7.3	228.6	7.3	0.0										
18/05/2025	7.4	220.3	7.4	0.0										
19/05/2025	7.3	215.6	7.3	0.0	<5	<1								
20/05/2025	7.3	202.6	7.3	0.0										
21/05/2025	7.3	208.7	7.3	0.0										
22/05/2025	7.3	204.7	7.3	0.0										
23/05/2025	7.3	207.6	7.3	0.0										
24/05/2025	7.3	204.5	7.3	0.0										
25/05/2025	7.2	186.3	7.2	0.0										
26/05/2025	7.5	141.6	7.5	0.0	<5	<1								

[illegible]

[illegible]

[illegible]

[illegible]

Date	Flow (ML)	Electrical Conductivity - Field (µS/cm)	pH (Field) (Unit)	Turbidity (NTU)	Oil & Grease	Total Suspended Solids (mg/L)	Aluminium – Dissolved (mg/L)	Manganese – Dissolved (mg/L)	Nickel – Dissolved (mg/L)	Zinc – Dissolved (mg/L)	Copper – Dissolved (mg/L)	Cadmium – Dissolved (mg/L)	Arsenic – Dissolved (mg/L)	Lead – Dissolved (mg/L)
17/10/2025	7.5	156.9	7.5	0.0										
18/10/2025	7.5	150.4	7.5	0.0										
19/10/2025	7.4	145.1	7.4	0.0										
20/10/2025	7.4	161.0	7.4	0.0	<5	<1								
21/10/2025	7.7	188.2	7.7	0.0										
22/10/2025	7.5	174.5	7.5	0.0										
23/10/2025	7.3	184.3	7.3	0.0										
24/10/2025	7.3	177.0	7.3	0.0										
25/10/2025	7.1	152.5	7.1	0.0										
26/10/2025	7.2	143.8	7.2	0.0										
27/10/2025	7.4	163.7	7.4	0.0	<5	<1								
28/10/2025	7.6	230.5	7.6	0.0										
29/10/2025	7.5	258.3	7.5	0.0										
30/10/2025	7.3	251.4	7.3	0.0										
31/10/2025	7.2	230.0	7.2	0.0										
1/11/2025	7.2	219.2	7.2	0.0										
2/11/2025	7.4	249.0	7.4	0.0										
3/11/2025	7.4	261.0	7.4	0.0										
4/11/2025	7.5	249.0	7.5	0.0										
5/11/2025	7.4	257.0	7.4	0.0	<5	<1	<5	0.001	0.0005	9	<0.0005	<0.05	<0.0002	<0.0001
6/11/2025	7.3	257.0	7.3	0.0										
7/11/2025	7.2	147.0	7.2	0.0										

Notes:

Days of no discharge have not been included.

APPENDIX 3G. GROUNDWATER MONITORING DATA

Table 3-i Groundwater Quality Monitoring Data

Sample Point	Date	Electrical Conductivity - Field (µS/cm)	Electrical Conductivity - Lab (µS/cm)	Total Dissolved Solids (mg/L)	Total Suspended Solids (mg/L)	pH (Field) (Unit)	pH Lab (Unit)	Calcium - Dissolved (mg/L)	Magnesium - Dissolved (mg/L)	Sodium - Dissolved (mg/L)	Potassium - Dissolved (mg/L)	Alkalinity Carbonate (mg/L)	Alkalinity Bicarbonate (mg/L)	Chloride (mg/L)	Sulphate - Turbidimetric (mg/L)	Aluminium - Dissolved (mg/L)	Arsenic - Dissolved (mg/L)	Boron - Dissolved (mg/L)	Cobalt - Dissolved (mg/L)	Cadmium - Dissolved (mg/L)	Chromium - Dissolved (mg/L)	Copper - Dissolved (mg/L)	Iron - Dissolved (mg/L)	Lead - Dissolved (mg/L)	Manganese - Dissolved (mg/L)	Mercury - Dissolved (mg/L)	Nickel - Dissolved (mg/L)	Selenium - Dissolved (mg/L)	Silver - Dissolved (mg/L)	Zinc - Dissolved (mg/L)	Ammonia as N (mg/L)	Nitrate (mg/L)	Phosphorus - Total (mg/L)	Reactive Phosphorus - Total (mg/L)	Fluoride (mg/L)	
PZ003	23/04/2025	1955	1760	1020	<5	6.9	7.2	72	80	208	16	<1	355	339	162	<0.01	<0.001	<0.05	<0.001	<0.0001	<0.001	<0.001	<0.001	<0.05	<0.001	0.058	<0.0001	<0.001	<0.01	<0.001	0.008	0.06	0.32	0.02	<0.01	0.5
PZ003	15/10/2025	2266	1840	1080	94	6.8	7.2	69	82	205	14	<1	389	355	131	<0.01	<0.001	<0.05	<0.001	<0.0001	<0.001	<0.001	<0.001	0.63	<0.001	0.140	<0.0001	<0.001	<0.01	<0.001	0.006	0.66	0.16	0.16	<0.01	0.6
PZ044	16/04/2025	3199	2930	2170	38	6.6	7.0	439	85	110	41	<1	409	267	981	<0.01	0.004	<0.05	<0.001	<0.0001	<0.001	<0.001	<0.001	4.52	<0.001	0.662	<0.0001	0.002	<0.01	<0.001	<0.005	0.36	<0.01	0.07	<0.01	0.2
PZ044	9/10/2025	3630	2950	2470	37	6.5	6.5	479	86	115	42	<1	433	306	962	<0.01	0.002	<0.05	<0.001	<0.0001	<0.001	<0.001	<0.001	3.34	<0.001	0.520	<0.0001	0.004	<0.01	<0.001	0.056	0.38	0.20	0.09	<0.01	0.2
PZ055	17/04/2025	2512	2340	1560	37	5.5	6.0	23	85	294	20	<1	56	497	422	<0.01	<0.001	<0.05	0.316	<0.0001	<0.001	<0.001	<0.001	34.40	<0.001	7.930	<0.0001	0.096	<0.01	<0.001	0.073	1.72	0.02	<0.01	<0.01	<0.1
PZ055	15/10/2025	3204	2390	1690	66	5.8	6.1	24	99	328	18	<1	86	566	444	<0.01	<0.001	<0.05	0.327	<0.0001	<0.001	<0.001	<0.001	48.90	<0.001	8.320	<0.0001	0.095	<0.01	<0.001	0.055	2.04	<0.01	0.04	0.02	<0.1
PZ058A	23/04/2025																																			
PZ058A	15/10/2025																																			
PZ101C	28/04/2025	731	584	389	290	6.7	7.0	35	20	68	11	<1	243	73	<1	<0.01	0.003	<0.05	0.002	<0.0001	<0.001	<0.001	<0.001	2.74	<0.001	0.699	<0.0001	<0.001	<0.01	<0.001	<0.005	0.77	0.04	0.57	<0.01	0.4
PZ101C	21/10/2025	742	626	356	160	6.8	7.5	30	16	67	10	<1	242	61	2	<0.01	0.002	<0.05	0.002	<0.0001	<0.001	<0.001	<0.001	1.51	<0.001	0.523	<0.0001	0.002	<0.01	<0.001	0.009	0.26	0.07	0.21	<0.01	0.5
PZ101B	28/04/2025	908	753	685	7200	7.3	7.6	56	23	83	18	<1	372	53	4	0.04	0.008	<0.05	0.002	<0.0001	<0.001	<0.001	<0.001	0.43	<0.001	0.210	<0.0001	0.006	<0.01	<0.001	0.010	0.65	0.12	2.77	<0.01	1.1
PZ101B	21/10/2025	941	798	408	23200	7.4	7.9	52	21	80	17	<1	376	53	2	0.02	0.012	<0.05	<0.001	<0.0001	<0.001	<0.001	<0.001	0.62	<0.001	0.192	<0.0001	0.006	<0.01	<0.001	<0.005	0.70	0.02	13.4	<0.01	1.0
PZ103C	29/04/2025	324	280	178	1430	5.4	5.6	4	9	35	8	<1	12	67	16	<0.01	<0.001	<0.05	0.013	<0.0001	<0.001	<0.001	<0.001	1.27	<0.001	0.360	<0.0001	0.079	<0.01	<0.001	0.033	0.06	0.03	0.37	<0.01	<0.1
PZ103C	16/10/2025	360	305	168	1140	5.5	5.5	5	8	34	6	<1	28	73	16	<0.01	<0.001	0.08	0.013	<0.0001	<0.001	<0.001	<0.001	1.48	<0.001	0.398	<0.0001	0.080	<0.01	<0.001	0.030	0.38	0.03	0.34	<0.01	<0.1
PZ105C	24/04/2025	281	220	131	42	5.9	6.2	5	4	28	3	<1	35	45	<1	<0.01	<0.001	<0.05	0.015	<0.0001	<0.001	<0.001	<0.001	2.42	<0.001	0.832	<0.0001	0.054	<0.01	<0.001	<0.005	0.48	<0.01	0.09	0.03	<0.1
PZ105C	21/10/2025	277	228	119	60	5.8	6.4	5	4	27	2	<1	30	52	<1	<0.01	<0.001	<0.05	0.012	<0.0001	<0.001	<0.001	<0.001	2.26	<0.001	0.696	<0.0001	0.046	<0.01	<0.001	0.023	0.07	0.28	0.10	0.02	<0.1
PZ106A	23/04/2025	8965	768	449	52	7.6	6.8	39	5	114	17	<1	91	202	11	0.11	<0.001	<0.05	<0.001	<0.0001	<0.001	<0.001	<0.001	<0.05	<0.001	0.002	<0.0001	<0.001	<0.01	<0.001	<0.005	0.09	0.84	0.04	0.02	0.2
PZ106A	14/10/2025	1063	856	470	186	8.0	7.5	40	5	112	16	<1	114	211	19	0.13	<0.001	<0.05	<0.001	<0.0001	<0.001	<0.001	<0.001	<0.05	<0.001	0.006	<0.0001	<0.001	<0.01	<0.001	<0.005	0.03	0.88	0.06	0.02	0.2
PZ109	24/04/2025	726	644	359	19	6.6	6.7	35	34	61	3	<1	200	90	16	<0.01	<0.001	<0.05	<0.001	<0.0001	<0.001	<0.001	<0.001	<0.05	<0.001	0.004	<0.0001	0.002	<0.01	<0.001	0.019	0.03	0.28	0.02	0.02	<0.1
PZ109	9/10/2025	834	691	392	79	6.7	6.7	35	32	61	3	<1	222	80	15	<0.01	<0.001	<0.05	<0.001	<0.0001	<0.001	<0.001	<0.001	<0.05	<0.001	0.001	<0.0001	0.003	<0.01	<0.001	0.016	0.03	0.34	0.12	0.02	<0.1
PZ111	16/04/2025	1186	1080	749	324	6.9	7.1	94	40	46	23	<1	223	208	24	<0.01	<0.001	<0.05	<0.001	<0.0001	<0.001	<0.001	<0.001	<0.05	<0.001	0.083	<0.0001	0.002	<0.01	<0.001	<0.005	0.48	0.06	0.29	<0.01	0.3
PZ111	14/10/2025	1316	1080	707	238	6.9	7.3	93	42	47	22	<1	242	230	24	<0.01	<0.001	<0.05	<0.001	<0.0001	<0.001	0.003	<0.05	0.027	0.016	<0.0001	<0.001	<0.01	<0.001	0.169	0.54	0.04	0.25	<0.01	0.3	
PZ112B	16/04/2025	1102																																		

Sample Point	Date	Electrical Conductivity -Field (µS/cm)	Electrical Conductivity - Lab (µS/cm)	Total Dissolved Solids (mg/L)	Total Suspended Solids (mg/L)	pH (Field) (Unit)	pH Lab (Unit)	Calcium - Dissolved (mg/L)	Magnesium - Dissolved (mg/L)	Sodium - Dissolved (mg/L)	Potassium - Dissolved (mg/L)	Alkalinity Carbonate (mg/L)	Alkalinity Bicarbonate (mg/L)	Chloride (mg/L)	Sulphate - Turbidimetric (mg/L)	Aluminium - Dissolved (mg/L)	Arsenic - Dissolved (mg/L)	Boron - Dissolved (mg/L)	Cobalt - Dissolved (mg/L)	Cadmium - Dissolved (mg/L)	Chromium - Dissolved (mg/L)	Copper - Dissolved (mg/L)	Iron - Dissolved (mg/L)	Lead - Dissolved (mg/L)	Manganese - Dissolved (mg/L)	Mercury - Dissolved (mg/L)	Nickel - Dissolved (mg/L)	Selenium - Dissolved (mg/L)	Silver - Dissolved (mg/L)	Zinc - Dissolved (mg/L)	Ammonia as N (mg/L)	Nitrate (mg/L)	Phosphorus - Total (mg/L)	Reactive Phosphorus - Total (mg/L)	Fluoride (mg/L)	
PZ191	16/10/2025	2861	2670	1930	6250	6.3	6.2	76	113	346	18	<1	122	79	1450	0.06	<0.001	<0.05	0.028	0.0013	<0.001	<0.001	23.40	<0.001	3.170	<0.0001	0.131	<0.01	<0.001	1.120	0.64	0.03	16.40	0.03	0.4	
PZ203	16/04/2025	359	341	220	24	5.0	5.7	4	7	48	<1	<1	7	85	12	<0.01	<0.001	<0.05	0.060	<0.0001	<0.001	<0.001	<0.05	<0.001	0.337	<0.0001	0.051	<0.01	<0.001	0.043	0.03	<0.01	<0.01	<0.01	<0.1	
PZ203	14/10/2025	429	345	188	6	5.1	5.7	4	6	51	<1	<1	9	96	14	0.04	<0.001	<0.05	0.066	<0.0001	<0.001	0.002	<0.05	<0.001	0.382	<0.0001	0.048	<0.01	<0.001	0.096	<0.01	0.07	<0.01	<0.01	<0.1	
PZ211	23/04/2025																																			
PZ211	9/10/2025																																			
PZ213	23/04/2025	122	129	86	690	5.4	5.4	2	2	17	<1	<1	12	26	6	<0.01	<0.001	<0.05	0.008	<0.0001	<0.001	<0.001	1.93	<0.001	0.115	<0.0001	0.010	<0.01	<0.001	0.015	0.07	<0.01	1.71	<0.01	<0.1	
PZ213	14/10/2025	144	130	66	57	5.4	5.9	2	2	17	<1	<1	11	25	6	<0.01	<0.001	<0.05	0.006	<0.0001	<0.001	<0.001	1.82	<0.001	0.103	<0.0001	0.009	<0.01	<0.001	0.023	0.04	0.04	0.05	<0.01	<0.1	
PZ214	23/04/2025	252	248	154	50	5.6	5.8	7	8	31	2	<1	31	50	12	<0.01	<0.001	<0.05	<0.001	<0.0001	<0.001	<0.001	<0.05	<0.001	0.001	<0.0001	0.007	<0.01	<0.001	0.007	0.04	1.47	0.20	<0.01	<0.1	
PZ214	14/10/2025	318	257	137	266	5.6	6.2	7	7	31	2	<1	35	52	3	<0.01	<0.001	<0.05	<0.001	<0.0001	<0.001	<0.001	<0.05	<0.001	0.004	<0.0001	0.007	<0.01	<0.001	0.012	<0.01	1.05	0.07	<0.01	<0.1	
PZ217	23/04/2025	4350	4000	2480	39	6.9	7.0	117	166	544	18	<1	389	841	443	<0.01	<0.001	<0.05	<0.001	<0.0001	<0.001	<0.001	<0.05	<0.001	0.002	<0.0001	0.002	<0.01	<0.001	0.008	<0.01	1.71	0.12	<0.01	0.5	
PZ217	15/10/2025	5520	4200	2920	31	7.0	7.6	128	195	596	16	<1	475	947	559	<0.01	<0.001	<0.05	<0.001	<0.0001	<0.001	<0.001	<0.05	<0.001	0.012	<0.0001	0.003	<0.01	<0.001	0.020	<0.01	1.30	0.09	0.02	0.6	
PZ221	23/04/2025	1310	1200	650	22	6.4	6.6	37	52	162	13	<1	276	216	76	<0.01	<0.001	<0.05	<0.001	<0.0001	<0.001	<0.001	1.70	<0.001	0.235	<0.0001	<0.001	<0.01	<0.001	0.016	0.12	0.07	0.26	<0.01	0.6	
PZ221	15/10/2025	1499	1260	732	<5	6.6	7.2	34	54	159	10	<1	306	224	74	<0.01	<0.001	<0.05	<0.001	<0.0001	<0.001	<0.001	0.80	<0.001	0.115	<0.0001	<0.001	<0.01	<0.001	0.022	0.07	0.16	0.13	0.02	0.6	
PZ235C	24/04/2025	780	665	532	101	6.8	7.0	96	20	22	6	<1	304	30	14	<0.01	0.015	<0.05	0.014	<0.0001	<0.001	<0.001	11.10	<0.001	1.760	<0.0001	0.095	<0.01	<0.001	0.016	0.33	0.18	0.08	<0.01	0.2	
PZ235C	21/10/2025	808	618	362	268	6.7	7.4	77	15	28	6	<1	277	26	30	<0.01	0.014	<0.05	0.020	<0.0001	<0.001	<0.001	12.60	<0.001	1.520	<0.0001	0.174	<0.01	<0.001	0.064	0.08	0.02	0.12	0.02	<0.1	
PZ234A	24/04/2025	510	407	210	155	6.0	5.9	19	10	42	4	<1	50	98	10	<0.01	0.010	<0.05	0.049	<0.0001	<0.001	<0.001	24.80	<0.001	2.690	<0.0001	0.300	<0.01	<0.001	0.010	0.10	<0.01	0.19	<0.01	<0.1	
PZ234A	21/10/2025	501	357	198	143	5.9	6.1	12	8	41	3	<1	34	96	8	<0.01	0.004	<0.05	0.041	<0.0001	<0.001	<0.001	21.80	<0.001	2.240	<0.0001	0.251	<0.01	<0.001	0.036	0.07	0.05	0.15	<0.01	<0.1	
PZ234B	24/04/2025	350	315	198	32	6.0	6.0	13	4	38	3	<1	63	50	18	<0.01	0.010	<0.05	0.012	<0.0001	<0.001	<0.001	12.10	<0.001	0.522	<0.0001	0.103	<0.01	<0.001	<0.005	0.26	0.02	0.41	0.04	<0.1	
PZ234B	21/10/2025	339	270	141	123	6.0	6.4	9	3	34	3	<1	34	56	13	<0.01	0.007	<0.05	0.012	<0.0001	<0.001	<0.001	11.20	<0.001	0.395	<0.0001	0.096	<0.01	<0.001	0.022	0.10	0.02	0.25	<0.01	<0.1	
PZ234C	24/04/2025	735	668	391	54	7.4	7.0	40	14	91	20	<1	284	44	<1	<0.01	<0.001	<0.05	<0.001	<0.0001	<0.001	<0.001	0.24	<0.001	0.011	<0.0001	<0.001	<0.01	<0.001	<0.005	0.78	<0.01	0.14	<0.01	1.7	
PZ234C	21/10/2025	831	720	400	181	7.4	8.0	36	13	92	20	<1	336	43	<1	<0.01	<0.001	<0.05	<0.001	<0.0001	<0.001	<0.001	0.14	<0.001	0.029	<0.0001	<0.001	<0.01	<0.001	0.012	0.72	0.02	0.17	<0.01	1.6	
PZ236C	24/04/2025	5	4630	3680	80	6.8	6.8	181	41	960	17	<1	375	206	2060	<0.01	0.031	0.15	<0.001	<0.0001	<0.001	<0.001	26.30	<0.001	2.020	<0.0001	<0.001	<0.01	<0.001	<0.005	0.16	<0.01	0.12	<0.01	0.4	
PZ236C	21/10/2025	4120	3280	2500	172	6.8	7.3	120	29	586	12	<1	411	155	1200	<0.01	0.018	0.10	<0.001	<0.0001	<0.001	<0.001	24.20	<0.001	1.280	<0.0001	0.001	<0.01	<0.001	0.015	0.22	<0.01	0.10	<0.01	0.4	
PZ237A	24/04/2025	334	300	208	46	6.3	6.0	10	4	30	4	<1	58	51	12	<0.01	<0.001	<0.05	0.015	<0.0001	<0.001	<0.001	20.10	<0.001	0.927	<0.0001	0.044	<0.01	<0.001	<0.005	0.39	0.04	0.71	<0.01	<0.1	
PZ237A	21/10/2025	312	262	148	124	5.8	6.5	10	4	26	3	<1	30	52	13	<0.01	<0.001	<0.05	0.016	<0.0001	<0.001	<0.001	<0.05	<0.001	0.743	<0.0001	0.120	<0.01	<0.001	0.083	0.16	0.06	0.50	<0.01	<0.1	
PZ237B	24/04/2025	348	306	206	56	6.5	6.3	22	8	30	7	<1	85	31	19	<0.01	0.002	<0.05	0.004	<0.0001	<0.001	<0.001	5.11	<0.001	0.305	<0.0001	0.021	<0.01	<0.001	<0.005	0.52	0.08	0.86	<0.01	<0.1	
PZ237B	21/10/2025	364	316	172	61	6.3	7.0	16	6	34	5	<1	80	31	29	<0.01	<0.001	<0.05	0.007	<0.0001	<0.001	<0.001	<0.05	<0.001	0.225	<0.0001	0.118	<0.01	<0.001	0.031	0.23	<0.01	0.42	<0.01	<0.1	
PZ237C	24/04/2025	633	623	380	61	7.3	7.2	54	18	60	17																									

Gaps in data indicate that no result is available, data determined to be anomalous or bore is dry.

Table 3-j Groundwater Level Monitoring Data

BORE	PZ102C – 28m	PZ102C – 64m	PZ103D – 31m	PZ103D – 55m	PZ103D – 85m	PZ105A – 28m	PZ105A – 80m	PZ105A – 118m	PZ105A – 130m	PZ127 - 43m	PZ127 - 68m	PZ128 - 20m	PZ128 - 36m	PZ128 - 55m
Jan-25	381.4	344.8	396.8	370.4	345.5	376.8	352.1	331.6	313.1	448.5	423.5	388.5	373.6	366.7
Feb-25	381.4	344.7	396.8	370.4	345.4	376.7	351.8	331.1	312.7	448.4	423.5	388.5	373.6	366.7
Mar-25	381.4	344.7	396.9	370.4	345.4	376.8	351.5	330.6	312.3	448.5	423.5	388.6	373.6	366.6
Apr-25	381.3	344.6	397.0	370.4	345.1	376.7	351.1	330.4	312.2	448.5	423.5	388.6	373.7	366.4
May-25	381.3	344.6	396.5	370.3	343.8	376.7	350.8	329.9	312.0	448.5	423.5	388.5	373.6	366.4
Jun-25	381.3	344.6	396.6	370.5	344.0	376.7	350.6	329.4	311.8	448.5	423.6	388.4	373.7	366.3
Jul-25	381.3	344.6	396.6	370.3	344.2	376.7	350.2	328.8	311.4	448.5	423.5	388.5	373.7	366.1
Aug-25	381.3	344.5	396.6	370.3	344.2	376.7	350.0	328.2	310.7	448.4	423.5	388.4	373.6	366.0
Sep-25	381.3	344.5	396.6	370.2	344.2	376.7	349.6	327.6	310.6	448.5	423.5			
Oct-25	381.3	344.5	396.5	370.2	344.2	376.6	349.2	327.0	310.1	448.4	423.5			
Nov-25	381.3	344.5	397.0	370.2	344.0	376.6	349.3	326.5	309.8	448.4	423.5			
Dec-25	381.3	344.5				376.6	348.8	326.4	309.0	448.4	423.4			
Min	381.3	344.5	396.5	370.2	343.8	376.6	348.8	326.4	309.0	448.4	423.4	388.4	373.6	366.0
Max	381.4	344.8	397.0	370.5	345.5	376.8	352.1	331.6	313.1	448.5	423.6	388.6	373.7	366.7

Gaps in data indicate that no result is available, data determined to be anomalous, bore is dry or has been decommissioned.

BORE	PZ129 - 35m	PZ129 - 53m	PZ129 - 74m	PZ130 - 38.5m	PZ130 - 64m	PZ179 - 29m	PZ179 - 33m	PZ179 - 145m	PZ186a – 13.5m	PZ186 – 40m	PZ186 – 65m	PZ186 – 86m	PZ186 – 118m	PZ192-68m
Jan-25	390.1	382.8	364.4	494.6	470.6	418.0	417.1	317.1	405.8	387.1	375.3	365.5	321.7	398.9
Feb-25	390.1	382.9	364.4	494.6	470.6	418.0	417.0	317.2	405.9	387.1	375.4	365.5	322.2	398.9
Mar-25	390.1	382.9	364.4	494.6	470.6	418.0	417.0	317.2	405.9	387.1	375.7	365.4	322.8	398.0
Apr-25	390.1	382.9	364.3	494.5	470.5	418.0	417.0	317.1	405.9	387.1	375.7	365.3	323.1	397.9
May-25	390.1	383.0	364.3	494.5	470.6	418.0	416.9	317.0	405.9	387.2	375.7	365.4	324.0	398.1
Jun-25	390.1	383.0	364.3	494.6	470.6	418.0	416.9	317.0	405.9	387.2	375.9	365.4	325.0	398.2
Jul-25	390.2	383.1	364.2	494.6	470.6	417.9	416.9	317.0	405.9	387.2	375.7	365.3	325.9	398.1

BORE	PZ129 - 35m	PZ129 - 53m	PZ129 - 74m	PZ130 - 38.5m	PZ130 - 64m	PZ179 - 29m	PZ179 - 33m	PZ179 - 145m	PZ186a - 13.5m	PZ186 - 40m	PZ186 - 65m	PZ186 - 86m	PZ186 - 118m	PZ192-68m
Aug-25	390.2	382.5	364.2	494.5	470.6	417.9	416.8	316.9	405.9	387.2	374.0	365.3	326.5	398.1
Sep-25				494.5	470.6	417.9	416.8	316.8	405.9	387.2	373.4	365.2	327.0	391.5
Oct-25				494.5	470.5	417.9	416.8	316.7	405.9	387.1	373.5	365.1	326.8	390.3
Nov-25				494.4	470.5	417.8	416.8	316.7	405.8					390.1
Dec-25				494.4	470.4	417.8	416.7	316.6	405.8	387.1	373.6	365.0	327.8	389.9
Min	390.1	382.5	364.2	494.4	470.4	417.8	416.7	316.6	405.8	387.1	373.4	365.0	321.7	389.9
Max	390.2	383.1	364.4	494.6	470.6	418.0	417.1	317.2	405.9	387.2	375.9	365.5	327.8	398.9

Gaps in data indicate that no result is available, data determined to be anomalous, bore is dry or has been decommissioned.

BORE	PZ192- 166m	PZ192- 178m	PZ193 - 80m	PZ193 - 162m	PZ193 - 184m	PZ194 - 78m	PZ194 - 173m	PZ194 - 196m	PZ195 - 72m	PZ195 - 162m	PZ195 - 175m	PZ240 - 59m	PZ229 - 84m	PZ229 - 140m
Jan-25	300.0	287.6	400.9	298.0	285.8	407.2	316.3	288.3	399.3	314.1	270.1	361.9	429.4	388.5
Feb-25	299.7	287.6	398.9	298.1	287.6	407.3	316.4	288.4	399.3	314.1	270.5	362.2	429.4	388.5
Mar-25	299.3	287.3	395.9	298.3	286.6	407.2		288.2	339.2	314.1	270.7	362.4	429.1	388.5
Apr-25	298.6	287.5	396.1	298.4	285.8	407.2			399.2	314.0	270.8	362.4	429.3	388.6
May-25	298.8	287.5	396.3	298.7	285.5	407.3			399.2	314.2	271.1	362.4	429.3	388.6
Jun-25	298.8	287.8	396.3	298.8	285.2	407.3			399.2	314.6	271.5	362.4	429.3	388.6
Jul-25	299.1	287.8	396.3	299.5	285.0	407.3			399.2	314.9	271.8	362.3	429.2	388.5
Aug-25	298.8	287.9	396.3	299.6	284.7	407.2			399.2	315.2	272.1	362.2	429.2	388.6
Sep-25	299.2	288.2	390.6			407.2			399.1	315.3	272.4	362.2	429.2	388.6
Oct-25	298.1	288.0	391.3			407.2			399.0	315.2	272.6	362.1	429.1	388.5
Nov-25	297.9	287.7	391.5						399.0	315.3	272.9	362.0	428.3	389.0
Dec-25	298.1	287.5	391.5			407.0	316.3	288.3	399.0	315.4	273.1	362.1	427.9	389.0
Min	297.9	287.3	390.6	298.0	284.7	407.0	316.3	288.2	339.2	314.0	270.1	361.9	427.9	388.5
Max	300.0	288.2	400.9	299.6	287.6	407.3	316.4	288.4	399.3	315.4	273.1	362.4	429.4	389.0

Gaps in data indicate that no result is available, data determined to be anomalous, bore is dry or has been decommissioned.

BORE	PZ229 - 198m	PZ229 - 253m	PZ229 - 319m	PZ232 – 45m	PZ232 – 75m	PZ232 – 96m	PZ232 – 132m	PZ235B – 68m	PZ235B – 96m	PZ235B – 147m	PZ236B – 85m	PZ236B – 110m	PZ236B – 157m
Jan-25	385.3	379.8	377.6					379.0	342.9	305.3	369.4	349.4	302.4
Feb-25	385.3	379.9	377.6					379.3	342.9	304.9	369.1	348.9	301.9
Mar-25	385.3	379.9	377.8					379.5	343.0	304.5	368.8	348.3	301.6
Apr-25	385.4	379.9	377.7					379.8	343.0	304.0	368.5	347.8	301.5
May-25	385.4	379.9	377.8					380.2	342.4	303.0	368.3	347.5	301.0
Jun-25	385.4	380.1	377.9					380.6	342.3	302.1	368.2	347.0	300.9
Jul-25	385.4	380.1	377.9					380.9	342.3	301.3	368.1	347.1	300.6
Aug-25	385.4	380.3	378.0					381.2	342.4	300.6	367.8	346.9	299.6
Sep-25	385.4	380.3	378.0					381.5	342.0	300.0	367.5	347.3	298.7
Oct-25	385.3	380.3	378.0					381.6	341.8	299.5	367.2	347.2	298.4
Nov-25	385.4	380.5	378.0					381.8	341.5	298.8	366.7	347.5	298.1
Dec-25	385.4	380.7	378.1					382.0	341.6	297.9	366.3	347.1	297.2
Min	385.3	379.8	377.6					379.0	341.5	297.9	366.3	346.9	297.2
Max	385.4	380.7	378.1					382.0	343.0	305.3	369.4	349.4	302.4

Gaps in data indicate that no result is available, data determined to be anomalous, bore is dry or has been decommissioned.

BORE	PZ003	PZ40B	PZ44	PZ55	PZ58A	PZ101C	PZ101B	PZ103C	PZ104	PZ105C	PZ106A	PZ109	PZ111	PZ112B
Jan-25	474.4		478.5	424.1	468.1	379.5	351.0	396.8		374.2	424.3	382.1	351.3	481.3
Feb-25	474.3		478.5	424.1	468.0	379.5	350.6	397.0		374.1	424.6	381.9	350.1	481.1
Mar-25			478.5	424.1	468.1	379.4	350.4	397.0		374.0	424.9	381.9	349.0	481.0
Apr-25	474.6		478.5	424.1		379.4	350.2	396.5		374.0	424.8	381.9	349.3	480.9
May-25	474.4		478.3	424.2		379.4	350.0	396.6		373.9	423.8	382.0		480.9
Jun-25	474.5		478.3	424.1	467.6	379.4	349.7	396.7		373.8	424.0	382.0	345.2	480.7

BORE	PZ003	PZ40B	PZ44	PZ55	PZ58A	PZ101C	PZ101B	PZ103C	PZ104	PZ105C	PZ106A	PZ109	PZ111	PZ112B
Jul-25	474.6		478.3	424.2		379.4	349.5	396.7		373.8	424.3	381.8	346.2	480.6
Aug-25	474.6		478.3	424.1		379.3	349.2	396.6		373.8	424.5	382.0	347.4	480.4
Sep-25	474.5		478.3	424.0		379.3	349.1	396.8		373.8	424.7	382.0		480.3
Oct-25	474.7		478.4	424.0		379.3	348.9	396.7		373.7	424.9	382.0	345.4	480.3
Nov-25	474.7		478.3	424.0		379.3	348.6	396.8		373.7	423.7	382.0	343.6	480.3
Dec-25	474.6		478.3	424.0		379.3	348.4	395.3		373.6	424.0	382.0		480.2
Min	474.3		478.3	424	467.6	379.3	348.4	395.3		373.6	423.7	381.8	343.6	480.2
Max	474.7		478.5	424.2	468.1	379.5	351	397		374.2	424.9	382.1	351.3	481.3

Gaps in data indicate that no result is available, data determined to be anomalous, bore is dry or has been decommissioned.

BORE	PZ137	PZ170	PZ184	PZ188	PZ189	PZ191	PZ194B	PZ194C	PZ195B	PZ195C	PZ203	PZ211	PZ213	PZ214
Jan-25	460.9	421.9		409.8	388.5	347.2	404.2	389.4		386.0	401.7		408.5	409.3
Feb-25	460.8	423.9		409.8	388.5	347.2	403.4	386.8		386.5	401.7		408.5	409.3
Mar-25	460.8	422.1		409.8	388.3	347.2	403.3	385.5		386.4	401.6		408.4	409.3
Apr-25	460.8	422.1		409.8	388.5	347.2	403.4	385.5		386.5	401.6		408.4	409.2
May-25	460.6	422.0		409.7	388.5	347.3	403.0	385.7		386.5	401.5		408.3	409.1
Jun-25	460.7	421.9		409.5	388.4	347.1	403.0	385.8		385.5	401.4		408.3	409.1
Jul-25	460.7	421.9		409.3	388.5	347.2	402.9	385.9		386.6	401.4		408.3	409.0
Aug-25	460.7	421.9		409.6	388.4	347.2	402.8	385.9		386.5	401.3		408.3	409.0
Sep-25	460.6	421.9		409.5	388.5	347.2	402.5	385.1		386.6	401.3		408.2	409.0
Oct-25	460.7	422.0		409.5	388.5	347.2	402.3	384.4		386.6	401.2		408.2	408.9
Nov-25	460.6	422.0		409.5	388.4	347.2	402.2	384.3		386.6	401.1		408.2	408.9
Dec-25	460.6	422.0		409.4	388.4	347.2	402.0	384.4		386.6	401.0		408.2	408.9
Min	460.6	421.9		409.3	388.3	347.1	402	384.3		385.5	401		408.2	408.9
BORE	460.9	423.9		409.8	388.5	347.3	404.2	389.4		386.6	401.7		408.5	409.3

Gaps in data indicate that no result is available, data determined to be anomalous, bore is dry or has been decommissioned.

BORE	PZ217	PZ221	235C	PZ236A	PZ236C	PZ237A	PZ237B	PZ237C	PZ234A	PZ234B	PZ234C	PZ241
Jan-25	490.7	473.4	390.8		388.7	383.3	382.2	361.9	373.3	373.0	348.2	405.6
Feb-25	490.8	473.5	390.6		388.5	383.3	382.2	361.5	373.2	372.9	347.7	405.6
Mar-25	490.8	473.5	390.7		388.6	383.3	382.1		373.2	372.8	347.5	405.6
Apr-25	490.8	473.6	390.6		388.6	383.3	382.2	361.2	373.2	372.8	347.3	405.4
May-25	490.7	473.5	390.7		388.6	383.3	382.2	361.1	373.2	372.8	347.1	405.6
Jun-25	490.7	473.6	390.7		388.5	383.3	382.3	360.7	373.1	372.8	346.8	405.6
Jul-25	490.7	473.6	390.7		388.6	383.3	382.2	360.9	373.1	372.8	346.6	405.6
Aug-25	490.6	473.6	390.6		388.6	383.3	382.2	360.7	373.0	372.7	346.4	405.5
Sep-25	490.6	473.7	390.6		388.6	383.3	382.2	360.5	373.1	372.7	346.2	405.5
Oct-25	490.7	473.7	390.7		388.6	383.2	382.2	360.5	373.0	372.7	346.0	405.5
Nov-25	490.7	473.7	390.7		388.6	383.2	382.1	360.5	373.0	372.6	345.7	405.5
Dec-25	490.7	473.7	390.6		388.5	383.1	382.0	360.4	372.9	372.5	345.4	405.5
Min	490.6	473.4	390.6		388.5	383.1	382.0	360.4	372.9	372.5	345.4	405.4
Max	490.8	473.7	390.8		388.7	383.3	382.2	361.2	373.3	373.0	348.2	405.6

Gaps in data indicate that no result is available, data determined to be anomalous, bore is dry or has been decommissioned.

GROUNDWATER LEVEL GRAPHS

Figure 3-g: Ulan Granite Composite Hydrograph

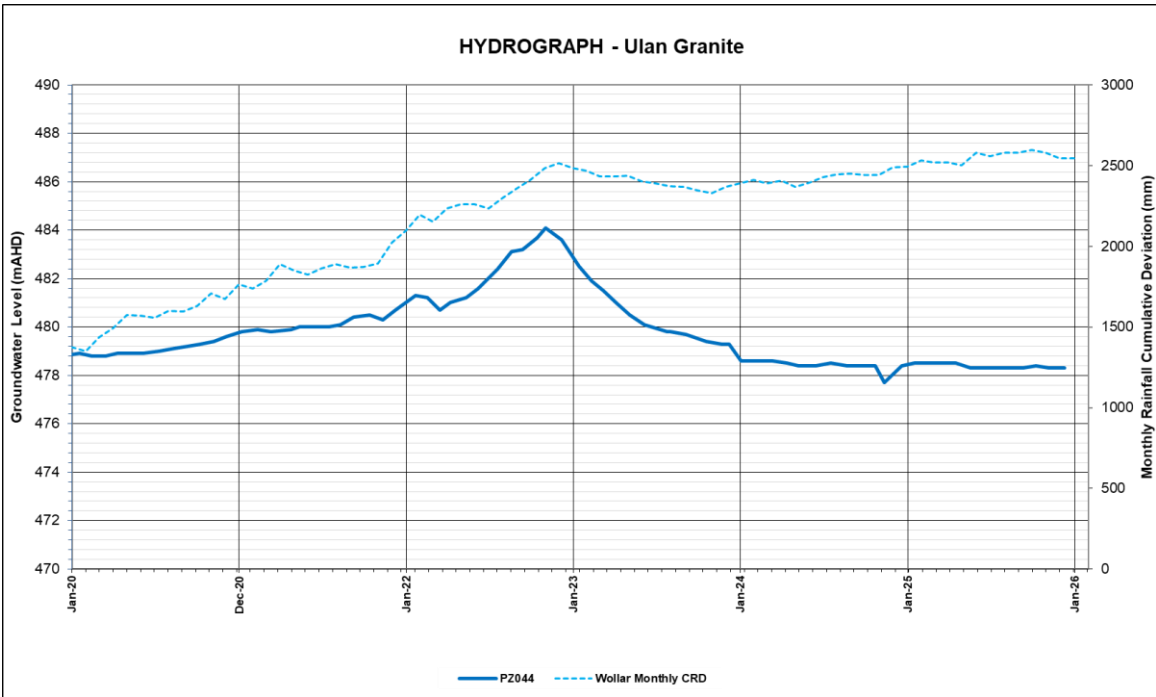


Figure 3-h: Marrangaroo and Ulan Seam Composite Hydrograph

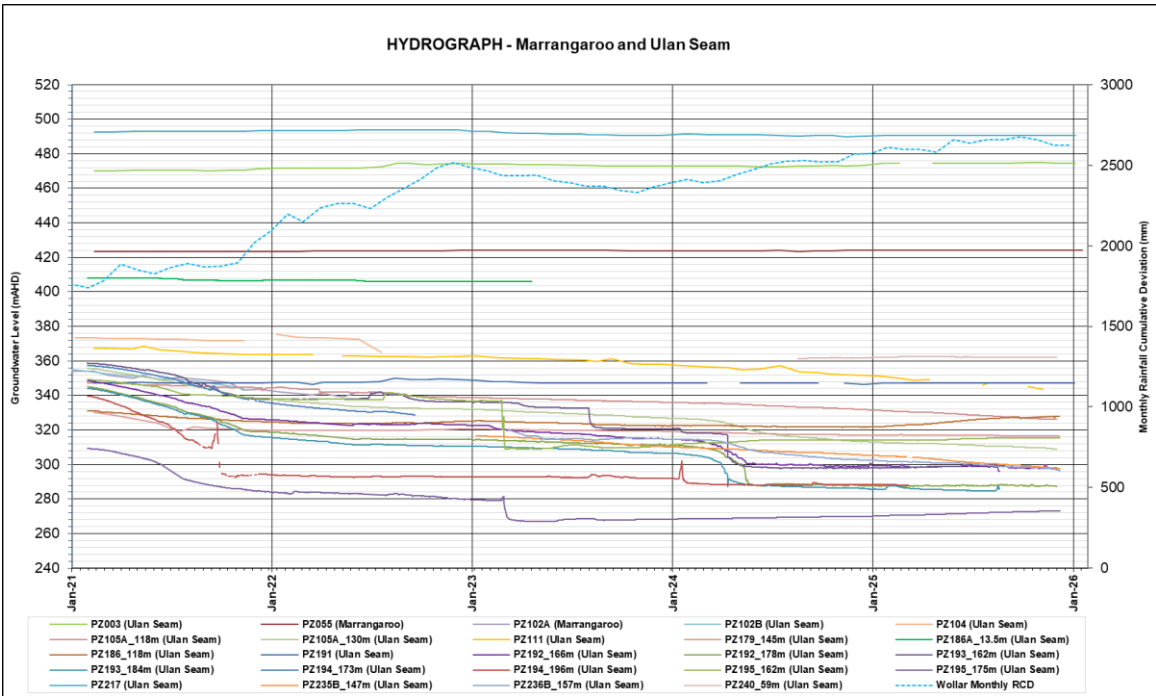


Figure 3-i: Permian Overburden Composite Hydrograph

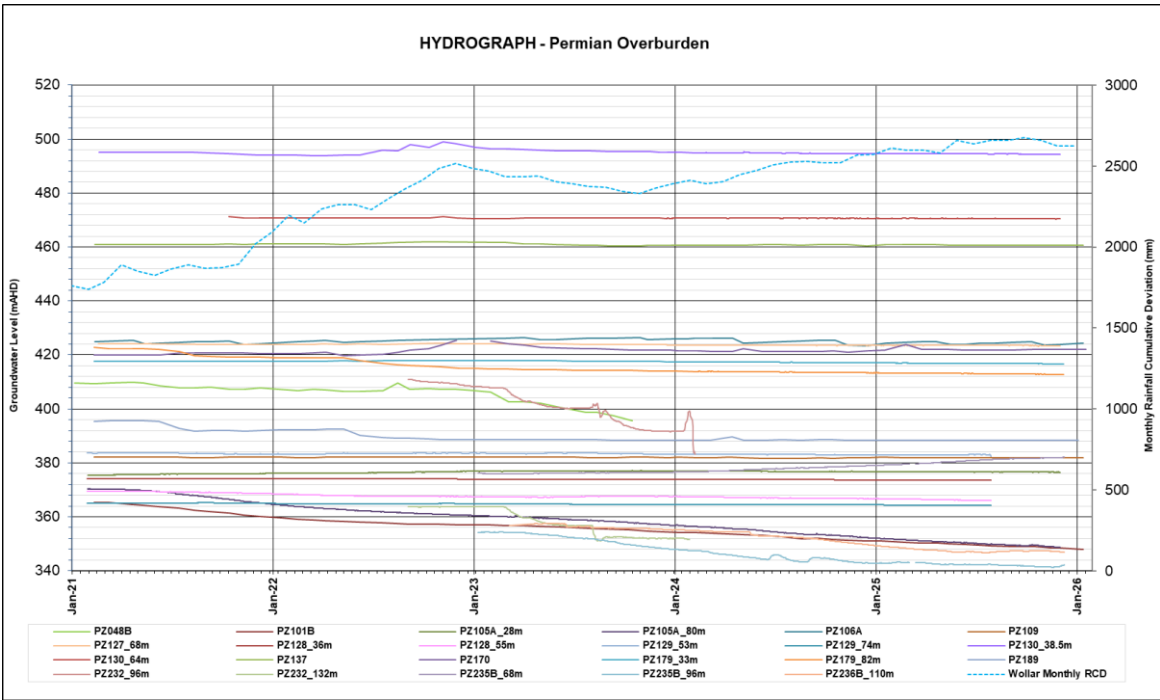


Figure 3-j: Triassic Composite Hydrograph

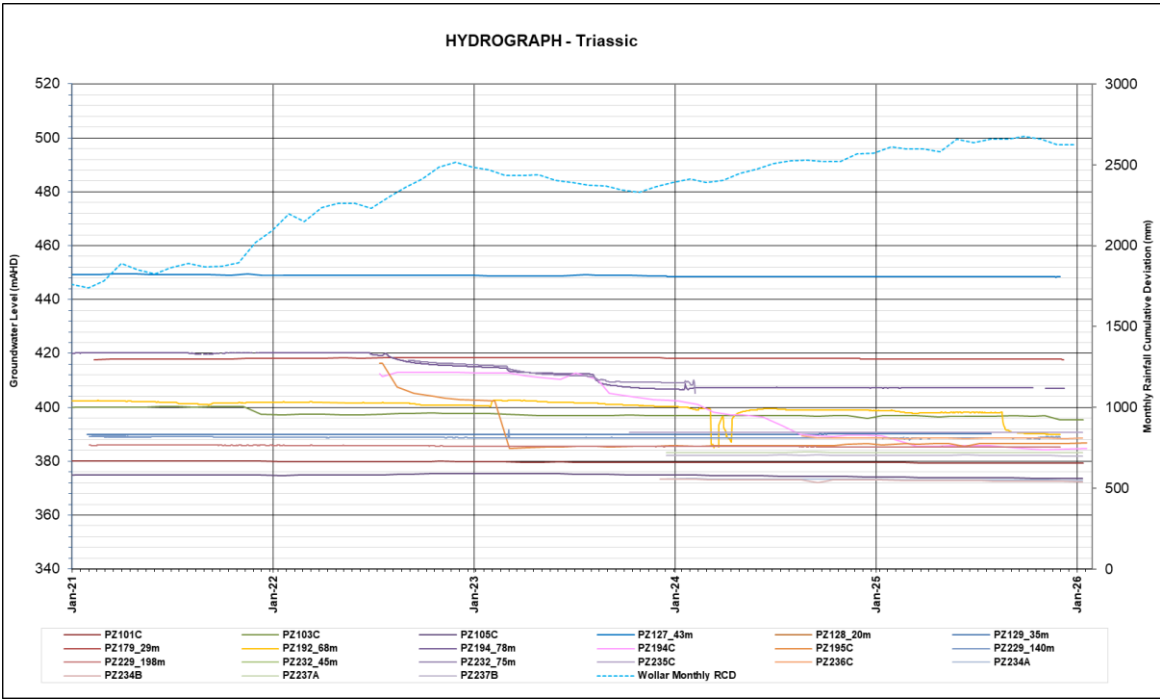
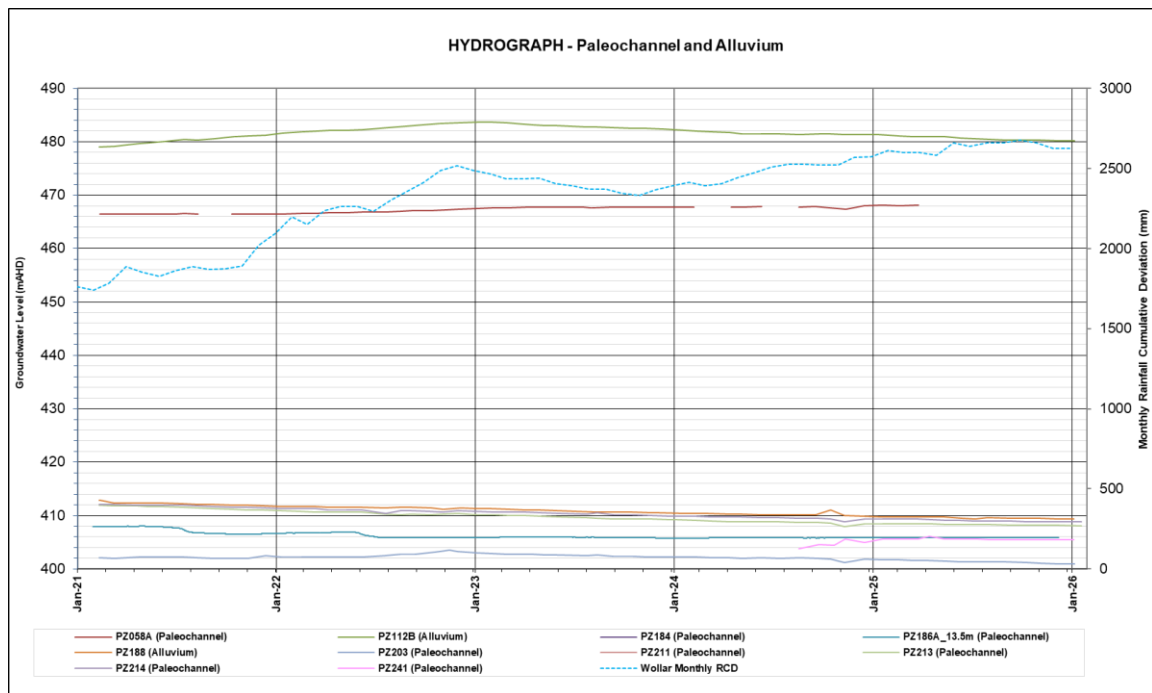


Figure 3-k Alluvium Composite Hydrograph



APPENDIX 4. COMMUNITY COMPLAINTS SUMMARY 2025

Date	Type	Location	Complaint Description
28/05/2025	Subsidence	MCO	Complaint received via DHPI raising concerns on subsidence impacts on vegetation. Investigation revealed no discernible impact of underground mining on the floristic, native vegetation stress, and subsidence attributes measured in the study area. Findings submitted to DPHI. No actions required.
29/05/2025	Other	MCO	Complaint received regarding condition of Goulburn River after rain. Investigation revealed high turbidity levels observed in Goulburn River following rainfall likely originated upstream and is not related to MCO Operational Activities. No action required.
01/07/2025	Blast	MCO	Complaint received regarding visibility and impact on health from blast event. Investigation revealed no unusual mining operations were occurring at the time. Complainant advised of investigation and findings. No action required.
13/10/25	Noise	MCO	Complaint received regarding noise from mining heard at neighbouring property. Investigation revealed no unusual mining operations were occurring at the time. No action required,

APPENDIX 5. COMMUNITY CONTRIBUTIONS

Beneficiary	Project/Event
Mid-Western Regional Council	Doctors for Mudgee
Moolarben Coal Celebrity Golf Classic	Moolarben Coal Celebrity Golf Classic
Barnardos Australia	Child Focused DV Specialist supports
Lifeline Central West Ltd	Establishment of a Lifeline Central West Mudgee hub
United Hosp Aux NSW Inc Gulgong Branch	Upgrade equipment/resources
Gulgong District Tennis Association Inc	Upgrade equipment/resources
DUNEDOO SPORTS CLUB LTD	TUNES ON THE TURF MUSIC FESTIVAL
Educar Foundation Pty Ltd	Max Potential 2025
MUDGEES DISTRICT TENNIS CLUB	Upgrade facility/resources
Henry Lawson Society Gulgong	Henry Lawson Heritage Festival 2025
Mudgee High School Parents & Citizens Association	3D Printer for the Engineering students
Mudgee Aero Club Inc	Wings Wheels and Wine Airshow
CASSILIS PUBLIC SCHOOL P&C ASSOCIATION	Inclusive Play Space for Cassilis Public School
Gulgong Public School	Riding For The Disabled
The Business Concierge LTD	Survivor Life Skills
RYLSTONE KANDOS SHOW SOCIETY INC.	Rylstone-Kandos Show
CUDGEGONG CRUISERS INC	CAN CRUISE 2025
Rotary Club of Mudgee Sunrise Inc. (and Rotary Club of Mudgee Inc.)	Mudgee Showground Carols
Gulgong Hostel Association Inc	Wenonah Social Club gathering area
Cassilis Country Music Incorporated	Country Music Weekend
Gulgong Show Society Inc	Gulgong Show 2025
Riding for the Disables Association (NSW) MUDGEES Centre	Horse and Rider sponsorship
Cooyal Parents Association	Upgrade equipment/resources
Turill Community Committee and Sports Clubs Inc	AED install
Mudgee & Districts Motorcycle Club	Upgrade facility/resources
Rotary Club of Mudgee Sunrise Inc.	Macquarie Home Stay - Room 55 fitout
Cancer Patients Assistance Society of NSW (Can Assist) Mudgee Branch	support to patients undergoing cancer treatment
Mudgee Men's Shed Incorporated	Mudgee Mens Shed (MMS) Extension equipment/resources
Rylstone Rural Fire Brigade	Thermal Imaging Cameras for brigade vehicles
Lions Club of Mudgee Inc.	Mudgee Lions Community Market and Festival 2025
Mid-Western Regional Council	2025 Mid-Western Seniors Festival
Rylstone StreetFeast Inc.	Rylstone StreetFeast 2025
Mudgee High School	The Enemy Within Mental Health Month Talk
Mudgee Triathlon Club	Mudgee Running Festival
Mudgee Triathlon Club	Coal Miners Cup - donation to local charity
ACE Genetics	Youth Development Day
Rotary Club of Mudgee	Mudgee Mathematical Minds Competition
Gulgong and District Avicultural Society	Annual Bird Show
Mudgee Bowling Club	Annual Mixed Pairs Bowls Weekend Tournament
Lake Windamere Under Canvas Camping Incorporated	Tools for tree planting project
Mudgee Show & Rodeo	Mudgee Show & Rodeo