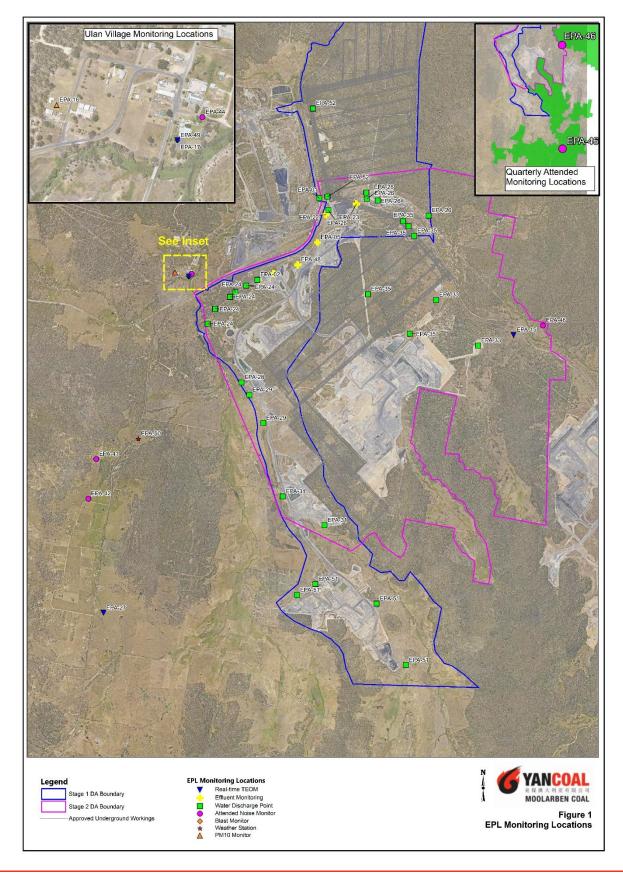


Monthly Environmental Monitoring Report

For the Month Ending 30 April 2025



Name of Operation	Moolarben Coal Complex
Name of License Holder	Moolarben Coal Operations Pty Ltd
Premises	Moolarben Coal Mine
	12 Ulan-Wollar Rd, Ulan NSW 2850
Environmental Protection Licence Number	12932
EPL Link	https://apps.epa.nsw.gov.au/prpoeoapp/ViewPOEOLicenc e.aspx?DOCID=270376&SYSUID=1&LICID=12932
Reporting Period	01 April 2025 to 30 April 2025
Date last sampled data obtained	20 May 2025
Publication Date	30 May 2025
Version	1
Author	N.Potgieter
Approver	R.Shanks





Concentration Monitoring Summary

Air Quality Monitoring

EPL	Location	Pollutant	Unit of	EPL Monitoring	No. of Samples	12 Mo	nth Rolling A	verage	Annual	Exceedance
ID			Measure	Frequency	collected and analysed annually	Min Value	Mean Value	Max Value	concentration limit	(Yes/No)
16	PM01	PM10	μg/m³	Every 6 days	20	11.6	11.8	11.9	25	No
N/A	PM02	PM10	μg/m³	N/A	20	12.6	12.7	12.9	25	No
15	TEOM 6	PM10	μg/m³	Continuous	100%	17.9	18.2	18.4	N/A	N/A
17	TEOM 1	PM10	μg/m³	Continuous	99.2%	15.7	15.9	16.0	25	No
27	TEOM 7	PM10	μg/m³	Continuous	91.7%	7.6	7.8	8.0	25	No
27	TEOM 7	PM2.5	μg/m³	Continuous	91.7%	3.2	3.3	3.3	8	No
N/A	TEOM 4	PM10	μg/m³	N/A	99.2%	13.1	13.2	13.3	25	No

EPL ID	Location	Pollutant	Unit of Measure	EPL Monitoring Frequency	No. of Samples collected and analysed	Min Value	Mean Value	Max Value	24 hr concentration limit	Exceedance (Yes/No)
16	PM01	PM10	μg/m³	Every 6 days	5	6.7	12.6	17.2	50	No
N/A	PM02	PM10	µg/m³	N/A	5	4.0	14.3	20.4	50	No
15	TEOM 6	PM10	μg/m³	Continuous (24 Hr Average)	100%	7.1	18.8	36.1	N/A	N/A
17	TEOM 1	PM10	μg/m³	Continuous (24 Hr Average)	100%	6.0	17.5	25.2	50	No
27	TEOM 7	PM10	μg/m³	Continuous (24 Hr Average)	96.7%	4.7	11.1	17.2	50	No
27	TEOM 7	PM2.5	μg/m³	Continuous (24 Hr Average)	96.7%	2.0	4.6	9.7	25	No
N/A	TEOM 4	PM10	μg/m³	N/A (24 Hr Average)	100%	5.6	14.1	21.2	50	No

Surface Water Quality Monitoring

EPL ID	Location	Pollutant	Unit of	No. of Samples collected and	Date Sampled	Results
			Measure	analysed		
		Conductivity	μS/cm	1	02/04/2025	737
N/A	SW01	рН	рН	1	02/04/2025	8.4
		Total Suspended Solids	mg/L	1	02/04/2025	20
		Conductivity	μS/cm	1	02/04/2025	747
N/A	SW02	рН	рН	1	02/04/2025	8.4
		Total Suspended Solids	mg/L	1	02/04/2025	<5
		Conductivity	μS/cm	0	03/04/2025	*
N/A	SW04	рН	рН	0	03/04/2025	*
		Total Suspended Solids	mg/L	0	03/04/2025	*
		Conductivity	μS/cm	1	02/04/2025	559
N/A	SW05	рН	рН	1	02/04/2025	7.0
		Total Suspended Solids	mg/L	1	02/04/2025	<5
		Conductivity	μS/cm	0	02/04/2025	*
N/A	SW07	рН	рН	0	02/04/2025	*
		Total Suspended Solids	mg/L	0	02/04/2025	*
		Conductivity	μS/cm	1	02/04/2025	1621
N/A	SW08	рН	pН	1	02/04/2025	6.3
		Total Suspended Solids	mg/L	1	02/04/2025	13
		Conductivity	μS/cm	1	02/04/2025	2413
N/A	SW09	рН	pН	1	02/04/2025	6.9
		Total Suspended Solids	mg/L	1	02/04/2025	48
		Conductivity	μS/cm	1	02/04/2025	354
N/A	SW12	рН	рН	1	02/04/2025	7.0
		Total Suspended Solids	mg/L	1	02/04/2025	7
		Conductivity	μS/cm	0	03/04/2025	*
N/A	SW15	рН	рН	0	03/04/2025	*
		Total Suspended Solids	mg/L	0	03/04/2025	*
		Conductivity	μS/cm	0	03/04/2025	*
N/A	SW16	рН	рН	0	03/04/2025	*
		Total Suspended Solids	mg/L	0	03/04/2025	*

MOOLARBEN COAL OPERATIONS PTY LTD | PART OF THE YANCOAL AUSTRALIA GROUP

MONTHLY ENVIRONMENTAL MONITORING REPORT For the Month Ending 30 April 2025

EPL ID	Location	Pollutant	Unit of	No. of Samples collected and	Date Sampled	Results
			Measure	analysed		
		Conductivity	μS/cm	0	03/04/2025	*
N/A	SW17	рН	рН	0	03/04/2025	*
		Total Suspended Solids	mg/L	0	03/04/2025	*
		Conductivity	μS/cm	0	03/04/2025	*
N/A	SW18	рН	рН	0	03/04/2025	*
		Total Suspended Solids	mg/L	0	03/04/2025	*
N/A	SW22	Conductivity	μS/cm	1	02/04/2025	739
		рН	рН	1	02/04/2025	8.5
		Total Suspended Solids	mg/L	1	02/04/2025	<5
N/A	SW23	Conductivity	μS/cm	0	02/04/2025	*
		рН	pН	0	02/04/2025	*
		Total Suspended Solids	mg/L	0	02/04/2025	*
N/A	SW24	Conductivity	μS/cm	0	02/04/2025	*
		рН	рН	0	02/04/2025	*
		Total Suspended Solids	mg/L	0	02/04/2025	*

* No flow

Blasting

			Unit of		No. of Blasts during		Results			Exceedance
	Location	Pollutant	Measure	Frequency	the reporting period	Min Value	Mean Value	Max Value	Limits dBL	(Yes/No)
49	BM1 Ulan	Blast Overpressure	dBL	Every Blast	20	86.4	96.0	111.6	115 (95% of Blasts) 120 (100% of Blasts)	No
49	School	Ground Vibration	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Every Blast	20	0.03	0.16	0.56	5mm/s (95% of Blasts) 10mm/s (100% of Blasts)	No
N/A	BM5 Ridge	Blast Overpressure	dBL	Every Blast	20	83.4	95.8	114.4	115 (95% of Blasts) 120 (100% of Blasts)	No
N/A	Rd	Ground Vibration	mm/s	Every Blast	20	20 83.4 0.03	0.09	0.18	5mm/s (95% of Blasts) 10mm/s (100% of Blasts)	No
N/A	BM8 Moolarben	Blast Overpressure	dBL	BL Every Blast 20		83.4	94.9	104.0	115 (95% of Blasts) 120 (100% of Blasts)	No
IN/A	Rd	Ground Vibration	mm/s	Every Blast	20	0.01	0.09	0.22	5mm/s (95% of Blasts) 10mm/s (100% of Blasts)	No

Noise

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	-	-

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

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

3. Site-only L_{Aeq,15minute}, includes modifying factor penalties, if applicable

4. Site-only $L_{A1,1minute}$ based on measured site-only L_{Amax}

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".

Effluent Discharge Points

EPL ID	Pollutant	Unit of Measure	No. of samples	No. of Samples	Date Sampled	Result
			required by Licence	collected and analysed		
	BOD	mg/L	Quarterly		*	
	Nitrogen (total)	mg/L	Quarterly		*	
F	Oil and Grease	mg/L	Quarterly		*	
EPL ID 5 22 23 48	рН	рН	Quarterly		*	
	Phosphorus (total)	mg/L	Quarterly		*	
	Total Suspended Solids	mg/L	Quarterly		*	
	BOD	mg/L	Quarterly		*	
	Nitrogen (total)	mg/L	Quarterly		*	
าา	Oil and Grease	mg/L	Quarterly		*	
22	рН	рН	Quarterly		*	
	Phosphorus (total)	mg/L	Quarterly		*	
	Total Suspended Solids	mg/L	Quarterly		*	
	BOD	mg/L	Quarterly		*	
	Nitrogen (total)	mg/L	Quarterly		*	
22	Oil and Grease	mg/L	Quarterly		*	
22 23	рН	рН	Quarterly		*	
	Phosphorus (total)	mg/L	Quarterly		*	
	Total Suspended Solids	mg/L	Quarterly		*	
	BOD	mg/L	Quarterly		*	
22 23 48	Nitrogen (total)	mg/L	Quarterly		*	
	Oil and Grease	mg/L	Quarterly		*	
	рН	рН	Quarterly		*	
	Phosphorus (total)	mg/L	Quarterly		*	
	Total Suspended Solids	mg/L	Quarterly		*	

*Not sampled in April, next sample in May 2025.

Discharge Points

EPL ID	Pollutant	Unit of Measure	No. of samples required by Licence	No. of Samples collected and analysed	Min Value	Mean Value	Max Value	100%ile concentration limit	Exceedance (Yes/No)
	Conductivity	μS/cm	Continuous during discharge	Continuous during discharge	112	190	308	619	No
	Oil and Grease	mg/L	Weekly during discharge	4	<5	<5	<5	10	No
1	рН	рН	Continuous during discharge	Continuous during discharge	6.7	7.1	7.4	6.5-8.5	No
T	Total Suspended Solids	mg/L	Weekly during discharge	4	<1	<1	<1	50	No
	Turbidity	NTU	Continuous during discharge	Continuous during discharge	0	0	0	25	No
	Discharge Volume	Megalitres per day	Continuous during discharge	Continuous during discharge2.13.87.5				20 ¹	No
	Conductivity	μS/cm	Continuous during discharge					619	NA
	Oil and Grease	mg/L	Daily during discharge				10	NA	
2	рН	рН	Continuous during discharge	Ne lisenced di	cohorgos du	wing the ne	6.5-8.5	NA	
2	Total Suspended Solids	mg/L	Daily during discharge	No licensed discharges during the period				50	NA
	Turbidity	NTU	Continuous during discharge			25	NA		
	Discharge Volume	Megalitres per day	Continuous during discharge					NA	NA
24	рН	рН	Daily during discharge					6.5-8.5	NA
	Total Suspended Solids	mg/L	Daily during discharge	No licensed di	scharges du	uring the pe	riod	50	NA
	Turbidity	NTU	Daily during discharge					25	NA
26	рН	рН	Daily during discharge					6.5-8.5	NA
	Total Suspended Solids	mg/L	Daily during discharge	No licensed di	scharges du	uring the pe	riod	50	NA
	Turbidity	NTU	Daily during discharge					25	NA
28	Conductivity	μS/cm	Continuous during discharge					619	NA
	Oil and Grease	mg/L	Daily during discharge					10	NA
	рН	рН	Continuous during discharge	No licensed di	scharges du	uring the pe	riod	6.5-8.5	NA
	Total Suspended Solids	mg/L	Daily during discharge					50	NA
	Turbidity	NTU	Continuous during discharge	1 –			25	NA	

MONTHLY ENVIRONMENTAL MONITORING REPORT For the Month Ending 30 April 2025

EPL ID	Pollutant	Unit of Measure	No. of samples required by Licence	No. of Samples collected and	Min Value	Mean Value	Max Value	100%ile concentration	Exceedance (Yes/No)
				analysed				limit	
	Discharge Volume	Kilolitres per day	Continuous during discharge				NA	NA	
29	рН	рН	Daily during discharge					6.5-8.5	NA
	Total Suspended Solids	mg/L	Daily during discharge	No licensed discharges during the period				50	NA
	Turbidity	NTU	Daily during discharge				25	NA	
31	рН	рН	Daily during discharge					6.5-8.5	NA
	Total Suspended Solids	mg/L	Daily during discharge	No licensed discharges during the period			riod	50	NA
	Turbidity	NTU	Daily during discharge					25	NA
35	рН	рН	Daily during discharge					6.5-8.5	NA
	Total Suspended Solids	mg/L	Daily during discharge	No licensed d	ischarges du	uring the pe	riod	50	NA
	Turbidity	NTU	Daily during discharge					25	NA
51	рН	рН	Daily during discharge					6.5-8.5	NA
	Total Suspended Solids	mg/L	Daily during discharge	No licensed discharges during the period			riod	50	NA
	Turbidity	NTU	Daily during discharge					25	NA

1 Only applies when mining operations at the premises include that undertaken in the areas "UG4".