



WILPINJONG COAL PTY LTD

Environment Protection Licence (EPL) 12425

Link to Environment Protection Licence EPL12425

LICENCE MONITORING DATA MONTHLY SUMMARY REPORT

for

1 February 2024 to 29 February 2024





Air Monitoring

Air quality surrounding the Wilpinjong Coal Mine is monitored using:

- 1. tapered element oscillating microbalances (TEOM);
- 2. high volume air samplers (HV); and
- 3. dust deposition gauges (DG).

In terms of the above equipment:

- 1. the TEOM and HVAS measure fine dust particles up to 10 microns in diameter (i.e. PM10); and
- 2. the DG measure the total dust deposited in the gauge during the sample period.

All are influenced by mining as well as non-mining activities in the local area.

The location of the above monitoring equipment in relation to Wilpinjong Coal Mine is shown in **Figures 6** and **8**.

A summary of the monitoring results for the month is provided in **Table 1** and the yearly trends are also shown in **Figures 1** to **3**.

For comparison with **Figures 2** and **3**, **Figure 4** displays the Regional 24Hr PM10 Average. PM10 dust levels for the month have been recorded in Bathurst and Merriwa by NSW EPA.





Table 1 - Air Monitoring

EPL ID No.	Monitoring Point ID.	Pollutant	Unit of Measure	Monitoring Frequency required by EPL	No. of times measured during month	Min. Value	Max. Value	Mean Value	Measurement	Annual Average	Limit	Exceed ⁿ (yes/no)	Date Last Sampled	Date Reported
3	DG4	Particulates - TIM	grams per square metre per month	Monthly	1				0.7				15/02/24	22/03/24
4	DG5	Particulates - TIM	grams per square metre per month	Monthly	1				0.6	0.8	4.0	No	15/02/24	22/03/24
6	DG8	Particulates - TIM	grams per square metre per month	Monthly	1				1.0				15/02/24	22/03/24
9	DG11	Particulates - TIM	grams per square metre per month	Monthly	1				4.9				15/02/24	22/03/24
17	DG15	Particulates - TIM	grams per square metre per month	Monthly	1				2.0				15/02/24	22/03/24
13	HV1	PM10	micrograms per cubic metre	Every 6 days	5	6.7	17.5	12.8			50	No	29/02/24	14/03/24
19	HV4	PM10	micrograms per cubic metre	Every 6 days	0	7.9	25.6	17.4			50		29/02/24	14/03/24
20	HV5	PM10	micrograms per cubic metre	Every 6 days	5	7.6	19.9	15.3			50		29/02/24	14/03/24
22	TEOM3	PM10	micrograms per cubic metre	Continuous (24 Hr Average)	96.6%	6.6	22.3	12.2			50	No		
23	TEOM4	PM10	micrograms per cubic metre	Continuous (24 Hr Average)	100.0%	6.8	26.5	13.5			50			

Notes:

1. Limits specified in the above table are from Development Consent SSD-6764.





Figure 1a. DG Results - 12 Month Trend



1. Limit of 4 g/m2/month (annual average) applies to DG5 (Wollar Village) - refer Figure 1b.

2. During the sampling period ending 22 May 2023, hazard reduction burns were undertaken within nearby national parks. This aligns with the elevated result of 7.8g/m² of otal insoluble matter for the sampling period. 3. During the sampling period ending 26th of September 2023, DG_11 results showed 30% ash, 5% fine dark particles annd 65% organic matter. A range of small fires present in the area throughout the month. Insects, bird droppings, grazing activity in the area. Special note: Ball of hair recorded in sample and a wasp nest on the bottle.

4. An invalid result was taken at DG_11 during the February monitoring period due to the funnel not being situated correctly in the bottle.





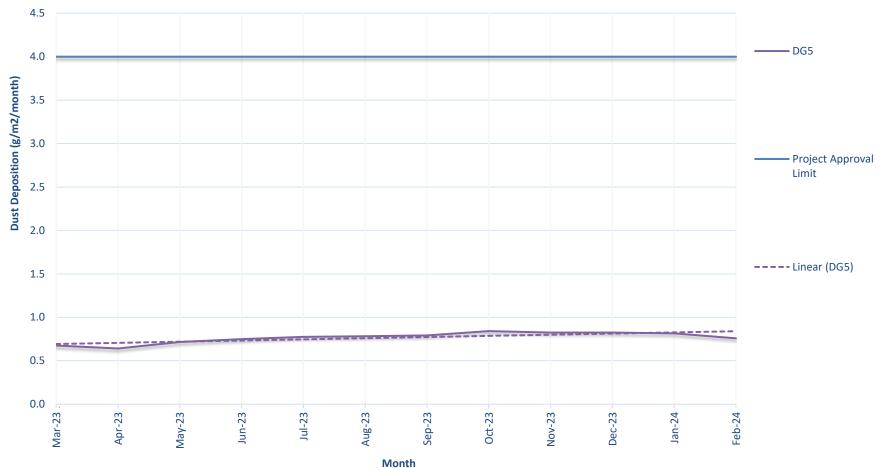


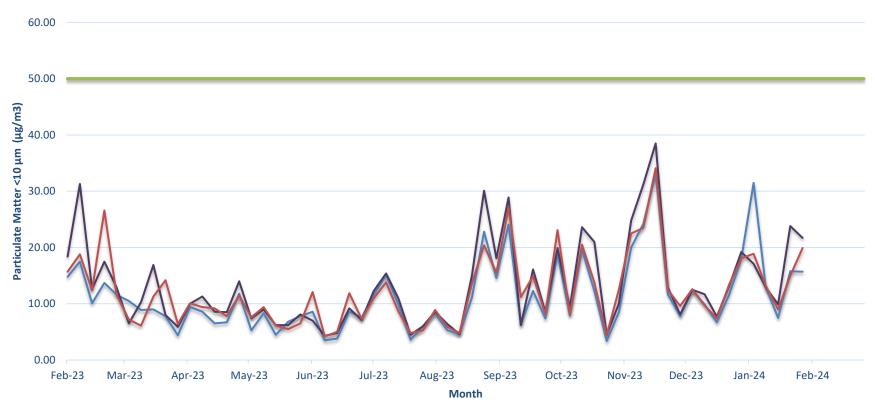
Figure 1b. DG 5 Results - Annual Average

wonth





Figure 2. HV (PM10) Results - 12 Month Trend



Notes:

1. Limit doesn't apply for extraordinary events such as bushfires, prescribed burning, or dust storms.







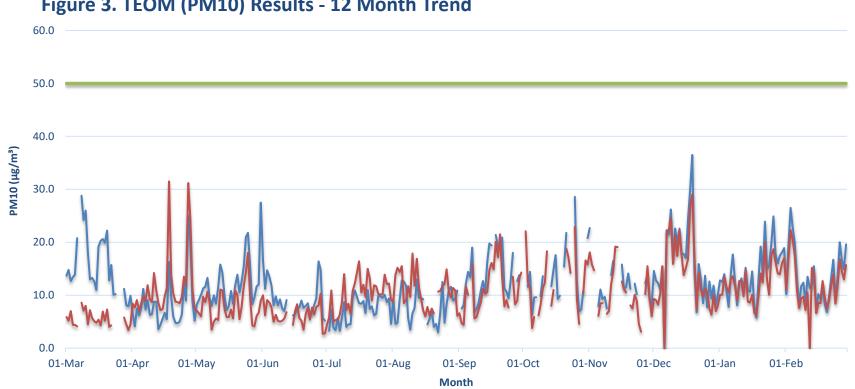


Figure 3. TEOM (PM10) Results - 12 Month Trend

Notes:

1. Limit dosen't apply for extraordinary events such as bushfires, prescribed burning or dust storms

2 Power outages and maintenance during March 2023 resulted in periods of no data at TEOM 3 and 4.

3. TEOM 3 failed in March 2023 for a period of five days due to low flows, extreme filter loads and a cricket discovered inside the unit during repair.

4. TEOM 4 failed in March 2023 for a period of two days - cause of failure unknown. The unit was restarted by Novecom.

5. TEOM 3 experienced a power interruptin in October 2023 resulted in period of no data.

6. TEOM 3 experienced a power outage on 12th February 2024.

—— TEOM 4 (Araluen Rd) — TEOM 3 (Wollar) 24 hour PM10 Limit (refer Notes)





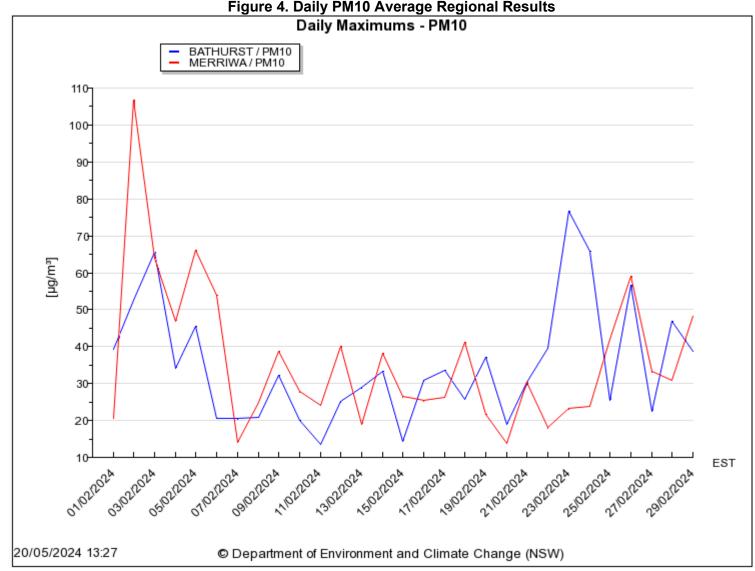


Figure 4. Daily PM10 Average Regional Results





Surface Water Monitoring

Surface water runoff is isolated and diverted around disturbed areas through the construction of water diversion bunds. Runoff from disturbed areas is diverted into on-site water retention dams.

A Reverse Osmosis (RO) Plant treats all water from the retention dams before it is discharged to Wilpinjong Creek. The EPL specifies limits for the quantity and quality of water that may be discharged from the site.

Table 2 - Site Water Discharge Monitoring

EPL ID No.	Monitoring Point ID.	Pollutant	Unit of Measure	Monitoring Frequency required by EPL	No. of times measured during month	Min. Value	Max. Value	Mean Value	Limit	Exceed ⁿ (yes/no)	Date Last Sampled	Date Reported
24	RO Plant Discharge	Conductivity	microSiemens per centimetre (uS/cm)	Continuous during discharge	100%	249	454	378	500	No		
		Oil and Grease	milligrams per litre (mg/L)	Weekly during any discharge	0	<5	<5	<5	10.0	No	28-Feb-2024	15-Mar-2024
		рН	pH Unit	Continuous during discharge	100%	6.7	8.4	7.3	≥6.5≤8.5	No		
		Total Suspended Solids	milligrams per litre (mg/L)	Weekly during any discharge	0	<1	<1	<1	50	No	28-Feb-2024	15-Mar-2024
		Volume discharged	megalitres per day	Continuous during discharge	100%	2.773	5.252	4.572	6.5	No		
30	Clean Water Dam Discharge	Turbidity	Nephelometric Turbidity Units	Continuous during discharge	100%	No discharge	e recorded duri	ng he month	As per EPL 12425	No		





Noise Monitoring

Environmental noise monitoring ("monitoring") is carried out monthly.

The purpose of the monitoring is to assess whether mining operations are consistent with the objectives of the EPL and the development consent conditions.

In terms of this monitoring, it is undertaken:

- 1. by an independent noise consultant.
- 2. during the night-time; and
- 3. at the sites shown in **Figure 7**.

On pages 11 and 12 of this report are the noise levels and findings from the consultant's report.





Table 4.1 Total measured noise levels, dB – February 2024¹

Location	Start date and time	LAmax	L _{A1}	L _{A10}	LAeq	L _{A50}	L _{A90}	LAmin
N6	6/02/2024 00:27	42	40	37	35	34	32	29
N14	5/02/2024 23:30	51	48	43	38	33	30	26
N15	5/02/2024 23:00	47	46	43	38	34	31	28
N17	5/02/2024 22:23	50	44	40	38	37	36	34
N19	5/02/2024 22:00	51	45	42	38	35	29	26
N20	6/02/2024 00:00	44	42	40	37	36	34	30

Notes: 1. Levels in this table are not necessarily the result of activity at site.

Low-frequency linear spectra measured from all sources during each attended 15-minute measurement are shown in Table 4.2. If low-frequency noise levels from site triggered a modifying factor, additional analysis is provided in Section 4.2 of this report.

Table 4.2 Measured low-frequency L_{eg} noise levels, dB(Z) - February 2024¹

Location	Start date and time	Frequency (Hz)												
		12.5	16	20	25	31.5	40	50	63	80	100	125	160	
N6	6/02/2024 00:27	54	50	45	42	37	35	33	31	29	28	27	24	
N14	5/02/2024 23:30	59	56	53	50	46	42	39	36	35	32	29	26	
N15	5/02/2024 23:00	0.00	э	2	36	31	29	33	29	29	25	23	20	
N17	5/02/2024 22:23	121	47	41	36	32	30	29	28	28	26	24	24	
N19	5/02/2024 22:00	1000	12	41	36	33	31	30	29	29	26	26	26	
N20	6/02/2024 00:00	0.40	84	41	35	31	27	26	24	22	21	18	15	

Notes: 1. Levels in this table are not necessarily the result of activity at site.

2. "-" indicates noise levels were too low to be measured by the sound level meter.

Table 4.3 Measured atmospheric conditions – February 2024

Location	Start date and time	Temperature °C	Wind speed m/s	Wind direction ^o Magnetic north ¹	Cloud cover 1/8s
N6	6/02/2024 00:27	30	<0.5	÷	0
N14	5/02/2024 23:30	31	1.2	80	1
N15	5/02/2024 23:00	31	0.7	60	2
N17	5/02/2024 22:23	32	<0.5	8	6
N19	5/02/2024 22:00	32	0.7	60	6
N20	6/02/2024 00:00	32	<0.5	2	0

Notes: 1. "-" indicates calm conditions at monitoring location.





6 Summary

EMM was engaged by Wilpinjong Coal Pty Ltd to conduct a monthly noise survey of operations at WCP. The survey purpose was to quantify the acoustic environment and compare site noise levels against specified limits from the relevant EPL and consent.

Attended environmental noise monitoring described in this report was done during the night period of 5 February 2024 at six monitoring locations.

Noise levels from site complied with relevant limits at all monitoring locations during the February 2024 survey.

Noise limits may not applicable due to meteorological conditions at the time of monitoring.

Wilpinjong Coal received the report from EMM Consulting Pty Ltd on 12th February 2024.





Blasting

Monitoring is carried out near sensitive locations during blasting activities to determine the vibration in the air (overpressure) and earth (ground vibration). A summary of the results of this monitoring, and the limits specified in the EPL, are shown in **Tables 3** and **4**. **Figures 7 & 8** shows the actual overpressure and vibration levels recorded during the month.

Table 3 – Overpressure Monitoring Results

Location	Month	Number of Blasts	Minimum overpressure (dB(L))	Maximum overpressure (dB(L))	Mean overpressure (dB(L))	EPL overpressure Limits (dB(L))	Exceedance (yes/no)
Approx. 50m west of the Wollar Public School	February	8	81.7	100.3	89.5	115dB (95% blasts) 120dB (100% blasts)	no

Table 4 – Vibration Monitoring Results

Location	Month	Number of Blasts	Minimum vibration (mm/sec)	Maximum vibration (mm/sec)	Mean vibration (mm/sec)	EPL vibration Limits (mm/sec)	Exceedance (yes/no)
Approx. 50m west of the Wollar Public School	February	8	0.02	0.27	0.07	5 mm/s (95% blasts) 10 mm/s (100% blasts)	no





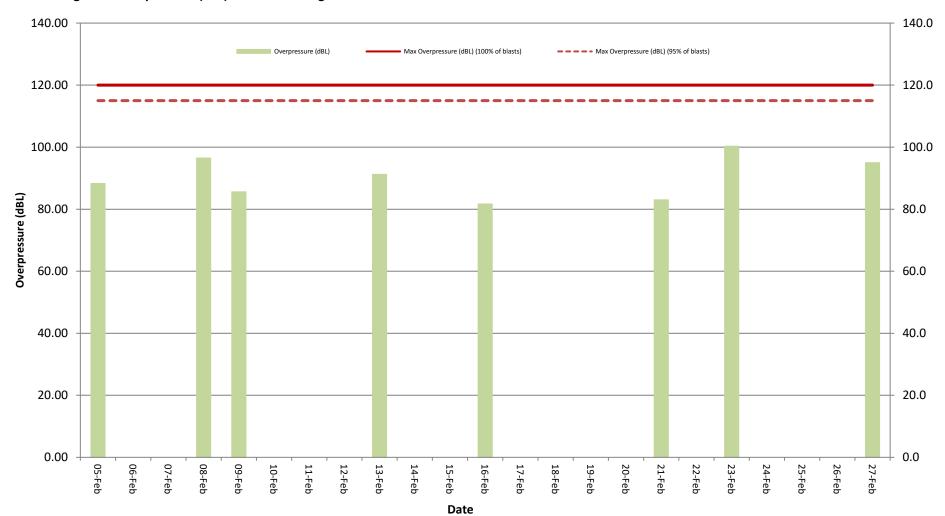
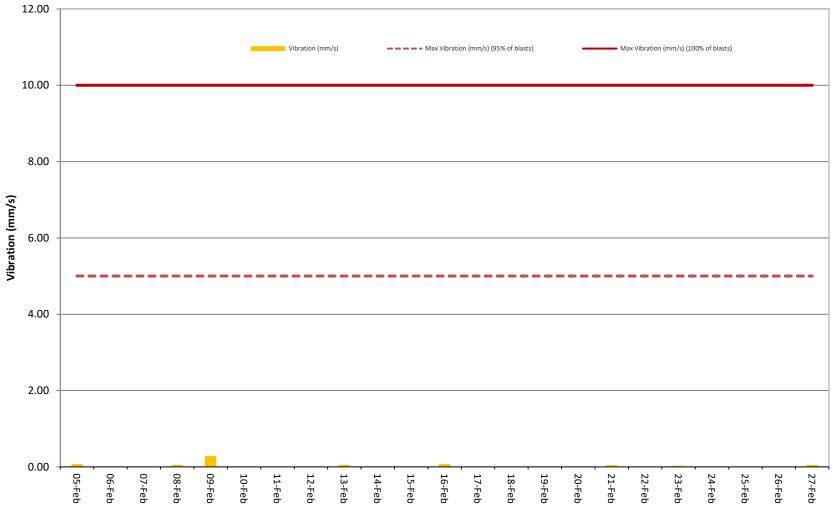


Figure 7. Overpressure (dBL) recorded during Month





Figure 8. Vibration (mm/s) recorded during Month



Date





Continuous weather monitoring occurs onsite at the location shown on Figures 5 and 6 (**Meteorological Station**). The Meteorological Station continuously monitors for: rainfall; relative humidity; temperature (i.e. at 2m, 10m & 60m), barometric pressure, wind speed, wind direction and temperature lapse rate.

The temperature lapse rate is a measure of stable atmospheric conditions and is determined by measuring air temperature at two elevations 58m apart (i.e. 2m and 60m from ground level) and extrapolating the temperature difference over 58m to determine the lapse rate per $^{\circ}C/100m$.

Table 5 shows the meteorological data recorded during the month.

Date Zm Avg Min 1/02/2024 26.4 21.9 2/02/2024 28.2 17.5 3/02/2024 26.4 19.7 4/02/2024 29.5 19.8 5/02/2024 20.5 15.6 5/02/2024 20.7 18.1 7/02/2024 17.6 15.6 8/02/2024 19.7 17.9 9/02/2024 21.4 15.3 10/02/2024 21.4 16.6 11/02/2024 24.4 16.6 13/02/2024 24.4 16.6 13/02/2024 24.5 18.9 14/02/2024 24.5 18.9 15/02/2024 24.5 19.8 15/02/2024 24.5 19.4 16/02/2024 24.5 19.4 18/02/2024 25.5 15.8 21/02/2024 20.7 15.8 21/02/2024 20.7 15.8 21/02/2024 25.5 15.6 <td< th=""><th>Max 34.6 37.7 34.8 37.7 34.8 38.9 35.5 28.9 19.1 22</th><th>Hor Avg Mi 26.3 21. 28.3 19. 26.1 19. 26.2 20. 30.9 27. 23.7 18. 17.5 15.</th><th>Max 34 37 34.1 34.1 37.9</th><th>Avg 25.9 28.2 25.3 29</th><th>60m Min 21.2 21.1 19.3</th><th>Max 32.9 35.7</th><th>Avg 59.9</th><th>Min</th><th>Max</th><th>Avg</th><th>Speed</th><th>25 1</th><th>Dir</th><th>(mm)</th><th>(hPa)</th><th>(oC/100m)</th></td<>	Max 34.6 37.7 34.8 37.7 34.8 38.9 35.5 28.9 19.1 22	Hor Avg Mi 26.3 21. 28.3 19. 26.1 19. 26.2 20. 30.9 27. 23.7 18. 17.5 15.	Max 34 37 34.1 34.1 37.9	Avg 25.9 28.2 25.3 29	60m Min 21.2 21.1 19.3	Max 32.9 35.7	Avg 59.9	Min	Max	Avg	Speed	25 1	Dir	(mm)	(hPa)	(oC/100m)
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4402/2024 29.5 19.8 5402/2024 30.5 25.4 6402/2024 23.7 18.1 7402/2024 17.6 15.6 8402/2024 19.7 17.9 9402/2024 21.4 15.3 10/02/2024 21.4 18.6 11/02/2024 21.4 18.6 13/02/2024 24.4 16.6 13/02/2024 24.4 16.6 13/02/2024 26.1 16.9 14/02/2024 26.3 18 15/02/2024 24.4 16.6 13/02/2024 24.3 18.9 16/02/2024 24.3 19.8 16/02/2024 24.4 16.6 17/02/2024 26.3 19.4 18/02/2024 23.4 17.9 19/02/2024 23.4 17.9 19/02/2024 21.7 16.1 20/02/2024 20.5 19.6 22/02/2024 25.5 18.5 23/02/2024 2	38.9 35.5 28.9 19.1 22	29.5 20. 30.9 27. 23.7 18.	37.9		19.3	00.1	42.3	7.4	79	1.3	0	5.1	199	0	1003.3	7.4
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6/02/2024 23.7 18.1 7/02/2024 17.6 15.6 8/02/2024 19.7 17.9 9/02/2024 21.4 15.3 10/02/2024 21.4 18.6 11/02/2024 21.4 18.6 11/02/2024 21.4 18.6 11/02/2024 21.3 18.5 12/02/2024 24.4 16.6 13/02/2024 26.1 16.9 14/02/2024 26.3 18 15/02/2024 24.4 18.6 16/02/2024 24.3 20.8 17/02/2024 24.3 19.4 18/02/2024 23.4 17.9 19/02/2024 20.7 15.8 21/02/2024 20.7 15.8 21/02/2024 25.5 18.6 22/02/2024 25.5 18.5 23/02/2024 25.5 17.7	28.9 19.1 22	23.7 18.	34.8		20.1	36.5	49.7	21.8	82.5	0.5	0	4.6	298	0	1005.2	5.8
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10/02/2024 21.4 18.6 11/02/2024 21.3 18.5 12/02/2024 24.4 16.6 13/02/2024 26.1 16.9 13/02/2024 26.3 18 15/02/2024 26.4 19.8 15/02/2024 24.4 19.8 16/02/2024 26.4 19.8 16/02/2024 26.4 19.4 18/02/2024 23.4 17.9 19/02/2024 20.7 16.1 20/02/2024 20.7 15.8 21/02/2024 25.5 18.5 23/02/2024 25.5 18.5	28.1	19.6 17.	21.8	18.9	17.4	21.1	68.9	59	81.5	3.8	2.2	6	66	0.6	1020.3	-0.7
1H02/2024 21.3 18.5 12/02/2024 24.4 16.6 13/02/2024 26.1 16.9 14/02/2024 26.3 18 15/02/2024 22.4 19.8 15/02/2024 22.4 19.8 16/02/2024 24.9 20.8 17/02/2024 26 19.4 18/02/2024 21.7 16.1 20/02/2024 20.7 15.8 21/02/2024 23.5 19.6 22/02/2024 25.5 18.5 23/02/2024 26.5 17.7		21.2 15.	27.6	20.6	15.4	26.5	62.9	43.6	84.2	1.9	0.5	4.2	55	0	1018	1.6
12/02/2024 24.4 16.6 13/02/2024 26.1 16.9 14/02/2024 26.3 18 15/02/2024 22.4 19.8 16/02/2024 24.9 20.8 16/02/2024 24.9 20.8 17/02/2024 26 19.4 18/02/2024 23.4 17.9 19/02/2024 20.7 16.8 20/02/2024 20.7 15.8 21/02/2024 25.5 18.5 23/02/2024 26.5 17.7	24.5	21.4 19.	23.8	20.8	18.8	22.6	64.2	50.3	82.1	4.1	0	6.7	73	0	1019.2	3.2
13/02/2024 26.1 16.9 14/02/2024 26.3 18 15/02/2024 22.4 19.8 16/02/2024 24.9 20.8 16/02/2024 26.6 19.4 18/02/2024 26.6 19.4 18/02/2024 26.6 19.4 18/02/2024 21.7 16.1 20/02/2024 20.7 15.8 21/02/2024 23.5 19.6 22/02/2024 25.5 18.5 23/02/2024 26.5 17.7	25.3	21.2 18.	24.7	20.4	18.1	23.7	67.3	57.3	76.7	4	2.5	5.4	60	0	1018.6	-0.5
14/02/2024 26.3 18 15/02/2024 22.4 19.8 16/02/2024 24.9 20.8 17/02/2024 26 19.4 18/02/2024 23.4 17.9 19/02/2024 21.7 16.1 20/02/2024 20.7 15.8 21/02/2024 23.5 19.6 22/02/2024 25.5 18.5 23/02/2024 26.5 17.7	32.9	24.2 17.	32	23.7	17.1	30.6	60.7	33.9	88.3	1.3	0	3.4	64	0	1015.6	3.2
15/02/2024 22.4 19.8 16/02/2024 24.9 20.8 17/02/2024 26 19.4 18/02/2024 23.4 17.9 19/02/2024 21.7 16.1 20/02/2024 20.7 15.8 21/02/2024 23.5 19.6 22/02/2024 25.5 18.5 23/02/2024 26.5 17.7	34	26.2 17.	33	26.1	18.7	32	55.1	27.9	87	0.8	0	3.4	275	0	1011.5	5.4
16/02/2024 24.9 20.8 17/02/2024 26 19.4 18/02/2024 23.4 17.9 19/02/2024 21.7 16.1 20/02/2024 20.7 15.8 21/02/2024 23.5 19.6 22/02/2024 25.5 18.5 23/02/2024 26.5 17.7	34.4	26.3 19.	33.6	26.2	20.9	32.6	56.3	28.7	85.2	1.1	0	6.5	265	0.4	1009.4	10.9
17/02/2024 26 19.4 18/02/2024 23.4 17.9 19/02/2024 21.7 16.1 20/02/2024 20.7 15.8 21/02/2024 23.5 19.6 22/02/2024 25.5 18.5 23/02/2024 26.5 17.7	27.2	22.2 19.	26.5	21.5	19.2	25.5	73.9	56.6	85.8	3.7	2.4	5.5	58	0	1016.1	-0.9
18/02/2024 23.4 17.9 19/02/2024 21.7 16.1 20/02/2024 20.7 15.8 21/02/2024 23.5 19.6 22/02/2024 25.5 18.5 23/02/2024 26.5 17.7	32.2	24.6 20.	30.9	23.9	20.2	29.8	64.8	37.4	81.3	2.6	0.4	5.2	55	0	1017	0.7
19/02/2024 21.7 16.1 20/02/2024 20.7 15.8 21/02/2024 23.5 19.6 22/02/2024 25.5 18.5 23/02/2024 26.5 17.7	33.9	25.8 20	33	25.3	20.4	31.3	63.2	33.8	91.1	0.4	0	5.1	63	0.2	1016.8	2.1
20/02/2024 20.7 15.8 21/02/2024 23.5 19.6 22/02/2024 25.5 18.5 23/02/2024 26.5 17.7	33.8	23.5 18.	32.1	23.4	19.2	31	73.6	34.3	91	0.1	0	4.7	24	29.8	1015.8	5.3
21/02/2024 23.5 19.6 22/02/2024 25.5 18.5 23/02/2024 26.5 17.7	28.4	21.7 16.	27.9	21.2	16.8	26.8	70.7	43.3	94.3	2	0	9.1	73	0.2	1014.7	1.9
22/02/2024 25.5 18.5 23/02/2024 26.5 17.7	25.2	20.6 16.	24.4	19.9	16.1	23.3	72.2	55.5	90.5	2.5	0	5.8	61	0	1014.5	1.1
23/02/2024 26.5 17.7	29.6	23.3 19.	29.1	22.5	19.1	27.9	65.1	40.3	80.1	2.6	0.1	4.5	60	0	1012.3	-0.5
	34.6	25.6 19.	33.8	25.4	19.1	32.6	62.8	29.1	89.5	0.1	0	4	199	0	1009.7	7.4
24/02/2024 22.3 19.2	35.3	26.9 18.	35	27.1	19.8	34.2	58.8	29.6	88.5	2	0	6.6	243	0.6	1006.6	8.6
	24.6	22.4 19.	24.6	21.8	18.6	26.3	71.3	58.5	85.5	3.4	0	6	55	0	1011.9	5.6
25/02/2024 23.4 17.9	31.6	23.2 18	31.1	22.4	17.3	30	61.1	33.2	80.7	2	0.3	4.3	59	0	1012.9	3.9
26/02/2024 25.6 16.2	35	25.6 16.	34.2	25.1	17.4	32.6	57.7	22	92.3	0.9	0	5.6	54	0	1010.6	4.9
27/02/2024 23.9 21.4	29.6	23.7 21.	29.1	22.9	20.7	28	66.5	47.6	76.8	3.9	1.7	5.2	61	0	1014	-0.7
28/02/2024 26.1 21.4		26 21.	33.8	25.4	20.8	32.4	65.4	39.4	80.8	1.7	0	3.9	54	0	1014	5.4
29/02/2024 28.8 20.7		29 21.	36.8	28.7	21.9	35.7	59.4	30.6	94	1.8	0	6	231	5.4	1012.1	5.1

Table 5 – Monthly Meteorological Data





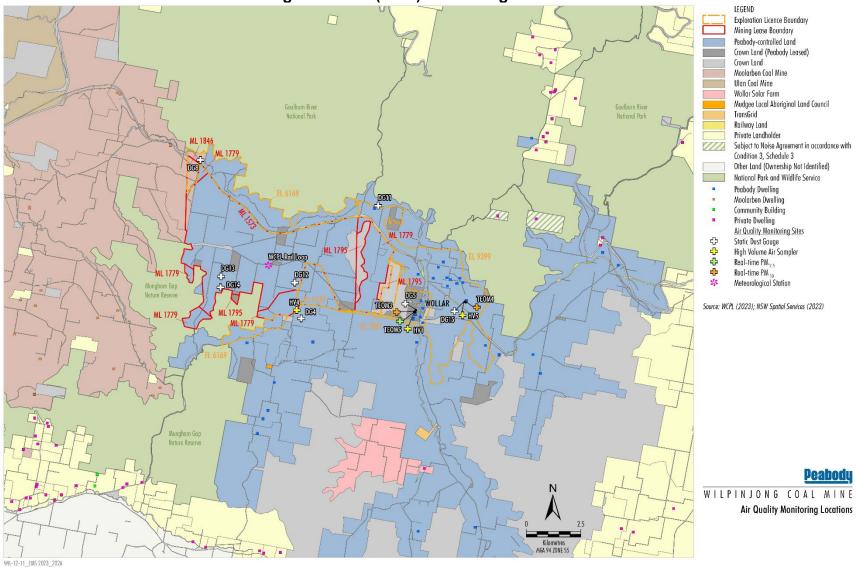
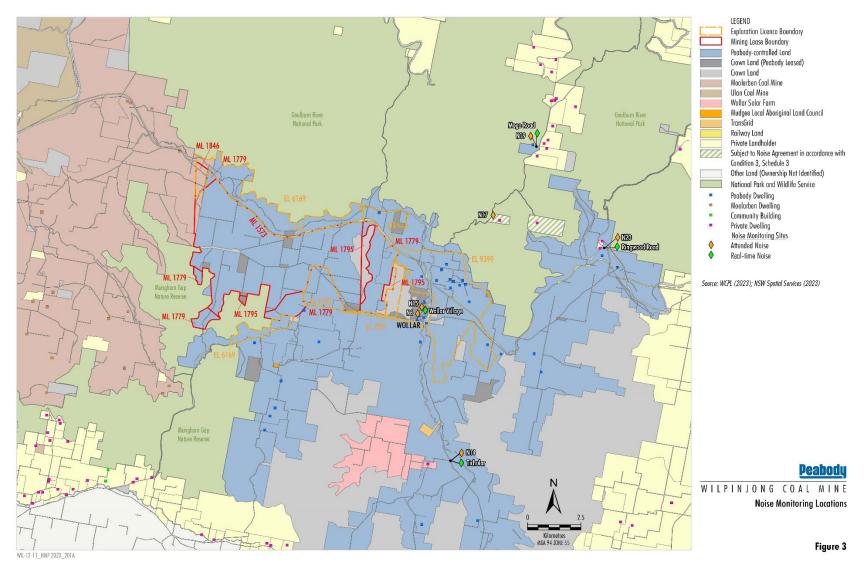


Figure 6 – Air (Dust) Monitoring Locations













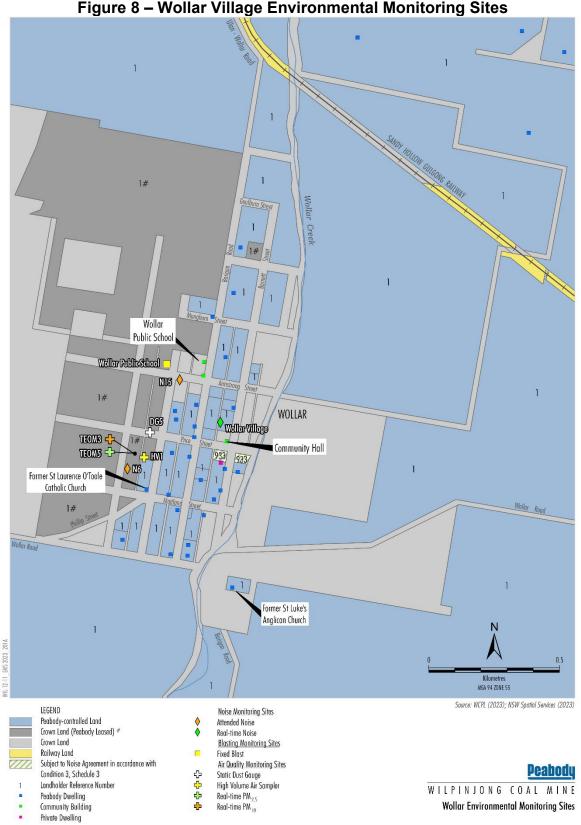


Figure 8 – Wollar Village Environmental Monitoring Sites

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