

WAMBO COAL  
POLLUTION MONITORING DATA  
1 APRIL 2024 – 30 APRIL 2024

APRIL MONTHLY REPORT

Published 06 May 2024

The following pollution monitoring data is published as a requirement of the Wambo Environmental Protection Licence (EPL) 529. A link to EPL529 can be found on the Environmental Protection Authority (EPA) Public Register. A link to the EPA's public register can be found at: <https://www.epa.nsw.gov.au/licensing-and-regulation/public-registers/about-prpoeo>

Monthly interim reports will be provided on a fortnightly basis until a final monthly report is produced when all monthly data is available.

The location of each sampling point is provided in 'Plan 2672-2' at the end of this document.

### Monitoring Data

Surface and Mine Water Dam Monitoring

Monitoring Frequency: Once per month

Sampling Method: Grab sample

Limits: Nil

Table 1 - WCPL Surface and Mine Water Dam Results

EPL ID	Site ID	Date	pH	EC (µS/cm)	TSS (mg/L)	Comments
Point 24	SW01					Yet to Receive Data
Point 25	SW02					
Point 26	SW03					
Point 27	SW04					
Point 28	SW05					
Point 29	SW06					
Point 30	SW07					
Point 31	SW08					
Point 33	SW15					
Point 34	SW27a					
Point 36	SW32a					
Point 39	SW39					
Point 40	SW40					
Point 41	SW41					

Water Discharge Monitoring

Monitoring Frequency: Continuous during discharge (EC, pH, Turbidity)  
 Daily during discharge (TSS, Volume)  
 Sampling Method: In line instrumentation (EC, pH Turbidity)  
 Grab sample (TSS)  
 Limits: pH- 6.5 to 9.5  
 TSS – 120  
 Volume – 250ML/day  
 Date sampled: Continuous  
 Date obtained: Continuous

Table 2 - WCPL Discharge Monitoring

Site	Date	pH (Avg)	Conductivity (µS/cm) Avg	TSS (mg/L)	Turbidity (NTU)	Volume (ML/day)	Comments
Point 4	08/04/2024	8.96	3199.3	18.5	26.3	4.25	
Point 4	09/04/2024	8.98	3107.7	16	25.3	19.55	
Point 19	No Discharge in April						

Sewerage Treatment Monitoring

Monitoring Frequency: Quarterly during discharge  
 Sampling Method: Grab sample  
 Limits: Nil  
 Date sampled: No Samples in April  
 Date obtained: No Samples in April

Table 3- WCPL Discharge Monitoring

EPL ID	Site ID	Date	pH	Faecal Coliforms (CFU/100mL)	Comments
Point 43	STPD3	-	-	-	No discharge
Point 52	STPD2				Sample required Quarterly
Point 56	STP1	-	-	-	Sample required Quarterly

**PM10 Monitoring**

Monitoring Frequency: Continuous

Sampling Method: AM22

Limits: Nil

Date sampled: Continuous

Date obtained: Continuous

Table 4 - WCPL PM10 Results

Date	PM02 (D2)- Wambo Road (Caban) (EPA14)		PM03 (D4) - Thelander (EPA15)		PM04 (D1) - Muller (EPA16)		PM05 (D5) - Kelly (EPA 53)	
	PM10 24 Hour Result (ug/m <sup>3</sup> )	Annual Average	PM10 24 Hour Result (ug/m <sup>3</sup> )	Annual Average	PM10 24 Hour Result (ug/m <sup>3</sup> )	Annual Average	PM10 24 Hour Result (ug/m <sup>3</sup> )	Annual Average
1/04/2024	21.0	16.14	19.4	12.30	26.9	19.81	23.9	23.02
2/04/2024	17.3	16.17	11.9	12.31	21.1	19.84	31.1	23.07
3/04/2024	14.9	16.18	13.6	12.31	14.2	19.84	17.3	23.06
4/04/2024	5.6	16.17	6.6	12.30	12.2	19.84	12.1	23.05
5/04/2024	3.4	16.15	3.5	12.29	7.5	19.82	8.9	23.04
6/04/2024	5.2	16.12	3.1	12.26	6.2	19.80	12.1	23.03
7/04/2024	6.9	16.12	7.0	12.25	7.7	19.79	11.8	23.01
8/04/2024	9.0	16.12	7.0	12.23	9.6	19.79	16.3	22.96
9/04/2024	9.5	16.12	8.0	12.22	8.7	19.79	14.8	22.92
10/04/2024	7.8	16.12	5.3	12.20	9.5	19.80	10.3	22.90
11/04/2024	9.5	16.12	7.5	12.19	14.5	19.82	11.1	22.89
12/04/2024	16.1	16.13	11.0	12.19	16.9	19.83	22.6	22.92
13/04/2024	15.8	16.16	10.7	12.21	18.3	19.86	15.6	22.93
14/04/2024	17.9	16.19	20.9	12.25	16.9	19.89	26.4	22.98
15/04/2024	19.5	16.21	15.5	12.28	22.1	19.91	22.1	23.00
16/04/2024	17.3	16.23	20.0	12.31	30.4	19.97	29.1	23.04
17/04/2024	16.0	16.24	15.1	12.32	22.7	19.99	20.2	23.06
18/04/2024	NaN	16.24	9.3	12.30	11.8	19.97	12.7	23.01
19/04/2024	17.3	16.23	13.4	12.30	19.1	19.97	18.1	23.01
20/04/2024	6.0	16.22	4.6	12.29	8.1	19.94	3.3	22.99
21/04/2024	9.6	16.22	7.7	12.28	13.8	19.92	6.4	22.97
22/04/2024	10.6	16.23	10.4	12.29	16.4	19.95	7.8	22.95
23/04/2024	8.0	16.22	7.0	12.30	10.4	19.96	8.3	22.94
24/04/2024	12.4	16.24	9.0	12.29	13.7	19.96	15.6	22.96
25/04/2024	18.6	16.25	18.8	12.30	27.8	19.98	17.2	22.97
26/04/2024	13.6	16.25	15.9	12.31	24.3	20.00	14.5	22.98
27/04/2024	12.9	16.25	13.6	12.32	22.3	20.02	18.2	23.00
28/04/2024	14.1	16.23	5.9	12.30	11.4	20.02	13.9	22.99
29/04/2024	11.4	16.22	9.2	12.28	12.4	20.00	18.5	22.97
30/04/2024	10.7	16.24	9.1	12.30	14.3	20.03	13.3	22.97

\*NaN >75% of data collected during period

Meteorological Monitoring

Monitoring Frequency: Continuous

Sampling Method: Site Meteorological Station EPA17

Limits: Nil

Date sampled: continuous

Date obtained: continuous

Table 5 - WCPL Meteorology

Date	Temperature (2m)			Temperature (10m)			Humidity			Solar Radiation		RAIN	Wind Speed at 10m			Wind Direction at 10m	Sigma Theta		
	Average	Min	Max	Average	Min	Max	Average	Min	Max	Average	Max	Sum (mm)	Average	Min	Max	Average	Average	Max	Min
1/04/2024	23.6	12.3	30.4	23.7	13.2	29.8	57.3	27.6	100.0	1898.9	2191.1	0.0	1.2	0.1	2.9	137.3	29.2	93.2	6.8
2/04/2024	19.0	12.9	27.4	19.6	13.3	27.1	89.0	46.0	100.0	1769.8	2060.7	5.6	1.6	0.1	6.4	223.4	27.5	87.3	8.8
3/04/2024	18.6	9.4	26.0	18.9	10.5	25.4	71.0	33.3	100.0	1828.2	2228.3	0.2	1.4	0.1	4.1	177.5	30.9	102.5	7.9
4/04/2024	18.1	16.2	19.4	18.1	16.1	19.2	97.2	88.6	100.0	1613.9	1775.4	29.4	1.6	0.4	4.3	145.6	18.1	60.4	8.6
5/04/2024	18.2	16.2	19.7	18.0	16.1	19.7	99.9	99.9	100.0	1547.8	1674.6	84.6	1.8	0.2	4.7	147.6	19.6	78.8	9.3
6/04/2024	20.6	15.5	27.1	20.6	16.2	26.2	80.2	44.0	99.9	1277.8	2111.2	4.6	1.8	0.1	4.1	272.3	28.3	82.5	7.4
7/04/2024	19.7	12.0	28.5	19.9	12.3	27.8	74.6	37.8	100.0	948.8	1928.9	0.2	1.6	0.1	4.5	220.8	27.0	86.8	8.7
8/04/2024	19.5	13.6	26.5	19.7	14.1	25.8	76.4	41.6	100.0	1086.3	1784.3	0.0	1.2	0.1	3.3	235.5	29.3	85.4	10.6
9/04/2024	17.0	12.2	24.1	17.1	12.2	23.6	72.9	33.7	100.0	1130.9	1741.0	2.8	1.8	0.1	7.2	194.8	29.4	90.1	6.5
10/04/2024	16.1	10.8	21.8	16.2	12.6	21.5	55.3	35.5	97.8	1320.3	2008.2	0.0	2.5	0.2	6.1	190.5	23.8	63.5	11.2
11/04/2024	15.3	7.0	23.7	15.6	7.6	23.6	73.5	37.4	100.0	1380.9	2050.4	0.0	0.9	0.0	2.4	170.2	32.4	99.6	5.8
12/04/2024	16.7	9.2	25.0	17.1	9.8	24.8	76.9	39.9	100.0	1525.9	1899.4	0.0	0.7	0.1	2.1	161.4	31.0	83.6	6.1
13/04/2024	18.4	10.2	27.1	18.6	10.8	26.6	77.6	36.9	100.0	1532.2	1913.3	0.0	0.9	0.0	3.2	151.6	31.8	92.2	6.9
14/04/2024	18.6	12.3	27.5	18.9	12.6	27.0	77.5	32.3	100.0	1665.8	2065.7	0.0	1.0	0.1	2.6	205.9	31.7	94.6	8.9
15/04/2024	19.2	11.1	27.7	19.5	11.7	27.3	76.1	35.8	100.0	1666.2	2058.2	0.0	0.8	0.1	2.4	203.4	33.4	90.9	6.8
16/04/2024	20.1	14.1	26.5	20.3	15.3	26.2	79.0	46.4	100.0	1671.6	2210.3	0.0	1.1	0.1	4.2	143.4	29.9	96.6	7.8
17/04/2024	19.4	14.3	26.6	19.5	15.2	26.1	83.4	47.6	100.0	1681.9	2150.3	15.8	1.3	0.1	4.6	128.4	27.5	93.2	8.2
18/04/2024	17.5	11.9	25.3	17.7	12.4	24.8	86.2	50.6	100.0	1652.3	2228.5	0.4	1.4	0.0	4.5	230.3	30.5	92.9	7.8
19/04/2024	15.4	7.2	22.5	15.7	8.2	21.5	70.9	39.8	100.0	1662.5	2239.5	0.2	0.9	0.1	2.5	182.1	37.2	102.4	9.6
20/04/2024	16.3	14.1	18.3	16.3	14.2	18.2	85.3	72.0	100.0	1544.6	1894.0	6.6	2.5	0.2	4.8	169.4	20.0	56.4	10.0
21/04/2024	17.6	14.1	22.7	17.7	15.1	22.2	77.9	50.6	100.0	1590.9	2156.9	0.0	2.6	0.2	5.2	173.4	18.2	52.0	6.0
22/04/2024	17.2	11.9	24.4	17.6	13.1	23.6	81.6	47.4	100.0	1527.0	2060.1	0.0	1.3	0.1	4.0	152.6	21.7	95.3	7.0
23/04/2024	16.3	9.1	26.0	16.7	9.6	25.4	80.6	37.7	100.0	1576.2	2048.2	0.2	1.1	0.1	3.3	216.8	25.5	90.0	7.0
24/04/2024	18.2	10.8	25.9	18.5	11.5	25.5	73.7	44.0	100.0	1654.2	1971.1	0.0	1.5	0.1	3.5	220.0	27.1	98.7	10.2
25/04/2024	17.2	10.6	21.9	17.2	11.6	21.5	66.7	45.5	100.0	1706.3	2213.2	0.0	1.5	0.2	3.1	160.4	20.6	73.8	8.8
26/04/2024	14.4	8.6	21.5	15.1	9.1	21.2	75.8	38.4	100.0	1803.3	2270.4	0.0	1.1	0.2	2.9	142.0	26.0	77.2	6.6
27/04/2024	15.4	7.3	22.7	15.8	8.7	22.4	79.8	48.0	100.0	1776.5	2144.5	0.0	1.2	0.1	2.9	141.9	25.1	88.7	7.1
28/04/2024	15.3	9.5	23.4	15.7	9.6	23.3	86.5	49.5	100.0	1779.1	2222.2	0.2	0.8	0.1	1.8	178.1	25.7	87.2	7.3
29/04/2024	16.7	8.0	27.6	17.0	8.6	26.5	75.4	32.1	100.0	1788.6	2166.5	0.0	0.9	0.0	3.4	224.2	27.3	90.2	0.1
30/04/2024	16.6	13.8	21.9	16.6	14.1	20.8	83.1	61.4	99.1	689.2	1758.5	2.8	1.9	0.0	4.4	178.8	19.1	68.6	9.4
<b>Total</b>	<b>17.7</b>	<b>7.0</b>	<b>30.4</b>	<b>17.9</b>	<b>7.6</b>	<b>29.8</b>	<b>78.2</b>	<b>27.6</b>	<b>100</b>	<b>1545.8</b>	<b>2270.4</b>	<b>153.6</b>	<b>1.4</b>	<b>0.0</b>	<b>7.2</b>	<b>183.1</b>	<b>26.9</b>	<b>102.5</b>	<b>0.1</b>

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