

WAMBO COAL
POLLUTION MONITORING DATA
1 MARCH 2024 – 31 MARCH 2024

MARCH MONTHLY REPORT

Published 10 April 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	28/03/2024	7.55	936	<5	
Point 25	SW02	28/03/2024	7.52	882	<5	
Point 26	SW03	28/03/2024	-	-	-	Pool/insufficient
Point 27	SW04	28/03/2024	-	-	-	DRY
Point 28	SW05	28/03/2024	-	-	-	DRY
Point 29	SW06	28/03/2024	-	-	-	DRY
Point 30	SW07	28/03/2024	-	-	-	Pool
Point 31	SW08	28/03/2024	-	-	-	DRY
Point 33	SW15	20/03/2024	8.8	5760	13	
Point 34	SW27a	28/03/2024	-	-	-	DRY
Point 36	SW32a	28/03/2024	-	-	-	DRY
Point 39	SW39	28/03/2024	-	-	-	DRY
Point 40	SW40	28/03/2024	-	-	-	Pool
Point 41	SW41	28/03/2024	-	-	-	DRY
Point 42	SW54	28/03/2024	-	-	-	DRY

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	No Discharges in March						
Point 19	No Discharges in March						

Sewerage Treatment Monitoring

Monitoring Frequency: Quarterly during discharge
 Sampling Method: Grab sample
 Limits: Nil
 Date sampled: 11/03/2024
 Date obtained: 11/03/2024

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	11/03/2024	7.09	<100	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 ³)	Annual Average	PM10 24 Hour Result (ug/m ³)	Annual Average	PM10 24 Hour Result (ug/m ³)	Annual Average	PM10 24 Hour Result (ug/m ³)	Annual Average
1/03/2024	28.9	16.11	15.7	12.06	30.4	19.36	31.3	23.12
2/03/2024	18.6	16.11	21.5	12.08	23.6	19.36	30.0	23.18
3/03/2024	11.5	16.11	15.5	12.09	23.1	19.38	21.0	23.19
4/03/2024	24.1	16.14	25.3	12.13	28.5	19.41	26.4	23.22
5/03/2024	18.4	16.13	19.4	12.14	24.9	19.43	13.9	23.21
6/03/2024	24.0	16.14	17.6	12.15	26.4	19.45	20.6	23.14
7/03/2024	26.4	16.13	19.7	12.17	31.4	19.49	24.0	23.05
8/03/2024	12.9	16.09	8.8	12.14	17.6	19.47	16.1	22.96
9/03/2024	17.0	16.05	17.0	12.13	23.5	19.45	13.1	22.92
10/03/2024	16.0	16.02	18.5	12.11	20.4	19.42	13.2	22.91
11/03/2024	16.3	16.02	19.9	12.14	26.8	19.45	22.4	22.92
12/03/2024	24.3	16.04	19.7	12.15	27.2	19.46	27.1	22.96
13/03/2024	21.8	16.05	35.7	12.22	50.5	19.55	35.4	23.01
14/03/2024	22.5	16.08	20.3	12.24	38.9	19.62	33.0	23.06
15/03/2024	12.3	16.06	13.4	12.23	22.9	19.62	20.2	23.05
16/03/2024	14.0	16.05	14.2	12.23	20.6	19.62	17.4	23.02
17/03/2024	10.2	15.98	10.1	12.20	15.7	19.58	14.7	22.97
18/03/2024	8.9	15.93	10.2	12.18	14.3	19.52	9.8	22.93
19/03/2024	16.9	15.92	27.6	12.19	20.3	19.50	11.7	22.88
20/03/2024	12.0	15.89	12.3	12.16	13.9	19.44	16.3	22.85
21/03/2024	15.7	15.90	15.8	12.16	24.0	19.45	22.4	22.85
22/03/2024	11.2	15.89	10.0	12.14	16.4	19.43	16.1	22.85
23/03/2024	19.7	15.91	13.0	12.15	18.1	19.44	18.8	22.85
24/03/2024	16.7	15.92	12.5	12.15	24.6	19.47	23.9	22.88
25/03/2024	13.2	15.93	5.4	12.14	18.2	19.49	22.0	22.90
26/03/2024	28.8	15.98	17.5	12.16	34.1	19.54	33.6	22.93
27/03/2024	21.1	16.02	15.0	12.18	26.2	19.58	20.2	22.96
28/03/2024	17.1	16.04	12.4	12.19	22.0	19.61	18.8	22.97
29/03/2024	18.8	16.06	17.2	12.21	35.0	19.69	19.0	22.98
30/03/2024	18.3	16.10	16.4	12.24	22.2	19.73	21.0	23.01
31/03/2024	13.6	16.11	12.5	12.26	19.9	19.77	7.8	22.99

*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
1/03/2024	29.2	22.9	35.8	29.0	22.8	35.2	65.8	38.4	94.1	560.8	1795.9	0	1.3	0.2	4.1	128.4	26.7	81.2	7.4
2/03/2024	26.5	21.8	35.3	26.5	21.8	34.4	79.0	36.7	99.9	175.3	1165.6	1.2	2.4	0.1	24.8	185.8	26.8	98.2	10.8
3/03/2024	24.9	18.5	34.5	24.8	18.9	34	67.9	17.8	99.9	791.2	2315.1	0.4	1.5	0.1	4.9	215.9	24.7	87.6	6.0
4/03/2024	21.4	18.6	23.8	21.5	18.9	23.2	66.9	54.5	84.1	1082.9	1618.3	0	2.5	0.3	4.5	126.3	18.5	73.7	10.6
5/03/2024	21.2	14.1	27.2	21.2	15.4	26.7	65.5	45.1	99.9	1055.7	1765.3	0	1.6	0.1	3.5	118.6	22.4	59.8	9.3
6/03/2024	23.4	12.7	33.4	23.5	13.2	33.1	67.8	36.7	100	479.2	1095.1	0	1.2	0.1	3.9	168.1	29.5	76.5	6.1
7/03/2024	24.9	17.6	33.8	25.0	18	32.7	66.2	33.3	99.9	245.6	1063.6	0	1.9	0.1	5.4	142.5	25.7	94.2	7.0
8/03/2024	24.6	19.2	30.6	24.5	19.5	29.8	68.8	39.6	99.9	270.3	1194.4	0	2.2	0.1	4.8	126.6	22.7	57.8	7.2
9/03/2024	23.6	16.3	30.2	23.6	17.7	29.4	68.6	38.7	99.9	295.8	1133.3	0	2.3	0.2	5.1	140.8	21.1	93.1	7.4
10/03/2024	23.9	17.4	30.7	23.8	17.9	30	68.7	37.3	99.9	305.0	1195.3	0	2.2	0.1	5.5	135.0	21.8	66.5	10.4
11/03/2024	23.6	17.4	30.2	23.6	17.7	29.3	67.7	36.9	99.9	294.3	1148.6	0	2.1	0.3	4.8	145.1	20.9	66.2	7.1
12/03/2024	23.9	13	34.7	24.1	13.9	34	63.2	26.3	99.9	316.2	1015.7	0	1.4	0	3.8	172.3	25.7	91.3	7.5
13/03/2024	22.5	13.7	30.8	22.9	14.6	30	67.3	32.4	100	261.0	1096.1	0	1.7	0.1	4	120.9	25.1	88.1	4.7
14/03/2024	24.7	13.1	37.1	24.7	14.1	36.1	65.7	22.9	99.9	254.0	964.1	0	2.1	0	5.5	194.1	25.8	89.2	8.7
15/03/2024	20.9	18.1	24.2	20.7	18.4	24.1	66.8	49	93.1	72.5	373.5	0	2.9	1.3	7	138.9	21.5	45.4	11.0
16/03/2024	20.0	16.6	24.2	20.0	16.9	23.6	67.0	50.5	84.9	97.1	440.0	0	1.9	0.7	4.2	137.3	17.7	34.3	8.2
17/03/2024	20.3	17	25.5	20.2	16.9	25.1	82.7	56.5	100	603.9	1968.5	12.8	1.3	0.2	3.2	152.9	23.9	75.0	8.5
18/03/2024	20.9	18	25.7	20.7	17.9	25.3	88.0	60.8	99.9	1190.0	2362.3	11.4	1.4	0.1	5.1	133.5	22.4	89.7	8.1
19/03/2024	23.4	20	29.4	23.2	20	28.9	81.4	52.3	99.9	980.6	1687.0	0	0.9	0	2.7	134.9	27.9	86.6	7.5
20/03/2024	21.8	18.4	27.3	21.9	18.6	27.2	87.8	60.3	99.9	1156.0	1602.5	2.6	1.9	0.1	4.8	227.6	25.6	86.5	9.7
21/03/2024	18.7	14.8	23	18.6	14.9	22.3	59.4	38.2	79.7	1104.3	1893.1	0	2.5	0.6	5	134.3	18.2	33.7	9.6
22/03/2024	18.9	14.5	24.6	18.9	15.4	24.3	72.6	51.9	90.5	1490.9	2033.9	0	1.3	0.3	3.4	144.4	23.9	71.3	5.6
23/03/2024	18.8	11.4	25.6	18.9	12.1	25	77.7	46.5	100	1661.2	2070.2	0	1.1	0	3.1	137.7	26.5	95.8	10.0
24/03/2024	22.0	17.5	28.4	21.9	18	27.8	69.2	40.2	96.8	1664.4	2170.3	0	1.1	0.2	2.8	153.6	30.0	93.8	8.0
25/03/2024	21.9	13	31.7	22.0	13.6	30.9	64.9	25.4	100	1802.5	2198.2	0	1.3	0	4.1	229.1	26.2	96.5	8.7
26/03/2024	21.5	12.3	30.7	21.8	13	30.2	68.7	30.1	100	1844.8	2235.7	0	1.3	0.1	5.3	125.0	31.1	99.2	7.3
27/03/2024	22.1	17.2	27.8	22.1	17.9	27.4	74.7	46	99.9	1808.9	2327.4	0	2.2	0.1	4.7	127.5	20.1	87.8	7.1
28/03/2024	21.6	16.6	28.9	21.6	17.7	27.9	77.1	41.1	100	1758.6	2301.3	0	1.9	0	5.4	129.8	23.3	76.2	7.4
29/03/2024	21.4	15.9	26.5	21.3	16.4	25.8	75.2	51.2	98.4	1776.9	2316.2	0	1.9	0.4	4.3	131.3	19.1	36.2	6.9
30/03/2024	20.3	10.5	29.1	20.5	11.4	28.4	73.8	38.8	100	1869.4	2250.0	0	1.2	0.1	3.5	163.6	28.2	97.1	6.2
31/03/2024	20.0	11.5	27.4	20.2	12.3	26.6	75.7	43.4	100	1837.5	2306.6	0	1.2	0.1	3.2	142.3	26.8	78.6	7.8
Total	22.3	10.5	37.1	22.3	11.4	36.1	71.4	17.8	100	942.5	2362.3	28.4	1.7	0	24.8	150.7	24.2	99.2	4.7

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