

WAMBO COAL
POLLUTION MONITORING DATA
1 JANUARY 2024 - 31 JANUARY 2024

JANUARY MONTHLY REPORT

Published 6 February 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	05/01/2024	7.53	957	5	
Point 25	SW02	05/01/2024	7.57	866	5	
Point 26	SW03	05/01/2024	-	-	-	No Flow
Point 27	SW04	05/01/2024	-	-	-	No Flow
Point 28	SW05	05/01/2024	-	-	-	No Flow
Point 29	SW06	05/01/2024	-	-	-	No Flow
Point 30	SW07	05/01/2024	-	-	-	No Flow
Point 31	SW08	05/01/2024	-	-	-	No Flow
Point 33	SW15	08/01/2024	8.82	5290	16	
Point 34	SW27a	05/01/2024	-	-	-	No Flow
Point 36	SW32a	05/01/2024	-	-	-	No Flow
Point 39	SW39	05/01/2024	-	-	-	No Flow
Point 40	SW40	05/01/2024	-	-	-	No Flow
Point 41	SW41	05/01/2024	-	-	-	No Flow

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 January						
Point 19	No Discharges in January						

Sewerage Treatment Monitoring

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

Table 3- WCPL Discharge Monitoring

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

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
1/01/2024	14.2	16.06	12.3	12.39	22.4	19.22	30.5	22.90
2/01/2024	14.7	16.05	21.7	12.39	24.0	19.22	21.5	22.91
3/01/2024	13.4	16.03	16.1	12.35	24.3	19.22	16.6	22.91
4/01/2024	NaN	16.00	14.8	12.29	20.4	19.18	27.1	22.91
5/01/2024	NaN	15.99	9.6	12.21	14.9	19.15	16.2	22.89
6/01/2024	13.5	16.00	13.6	12.21	19.7	19.17	17.9	22.91
7/01/2024	15.7	16.03	16.1	12.22	26.0	19.22	18.0	22.94
8/01/2024	14.0	16.05	7.7	12.20	20.3	19.25	21.9	22.97
9/01/2024	12.6	16.05	16.8	12.19	12.9	19.24	16.8	22.98
10/01/2024	17.7	16.02	17.9	12.17	22.7	19.23	17.3	22.97
11/01/2024	14.3	16.01	23.8	12.19	28.4	19.25	16.2	22.97
12/01/2024	16.3	16.01	14.3	12.18	21.7	19.25	18.5	22.97
13/01/2024	23.8	16.01	15.2	12.16	34.5	19.27	21.4	22.96
14/01/2024	11.1	15.99	10.8	12.12	22.4	19.25	9.5	22.94
15/01/2024	12.9	15.99	NaN	12.12	17.7	19.24	18.7	22.93
16/01/2024	15.6	15.97	14.1	12.10	21.6	19.22	26.8	22.93
17/01/2024	11.6	15.95	9.1	12.08	18.8	19.19	22.1	22.92
18/01/2024	6.8	15.92	15.9	12.09	7.3	19.13	19.3	22.93
19/01/2024	16.6	15.88	10.7	12.06	15.2	19.11	22.4	22.94
20/01/2024	20.5	15.92	27.6	12.12	27.7	19.15	29.9	22.99
21/01/2024	11.9	15.92	14.2	12.14	14.2	19.15	24.9	23.02
22/01/2024	24.9	15.95	26.6	12.18	36.3	19.18	36.3	23.08
23/01/2024	17.3	15.97	16.1	12.21	20.4	19.21	20.0	23.10
24/01/2024	15.4	15.99	10.6	12.21	19.7	19.22	15.7	23.08
25/01/2024	21.5	15.98	16.2	12.19	29.9	19.23	32.4	23.10
26/01/2024	26.1	15.99	16.3	12.19	28.0	19.22	45.0	23.15
27/01/2024	23.8	16.01	21.3	12.20	29.8	19.23	24.2	23.16
28/01/2024	21.5	16.01	17.6	12.20	26.4	19.22	27.4	23.16
29/01/2024	27.6	16.03	18.9	12.21	32.8	19.21	31.4	23.16
30/01/2024	21.1	16.04	20.2	12.22	29.2	19.23	24.2	23.16
31/01/2024	17.9	16.06	26.1	12.26	29.3	19.28	25.0	23.18

*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
1/01/2024	24.7	21.0	28.5	24.6	21.1	27.8	66.0	55.5	77.7	298.1	1226.2	0.0	3.0	1.4	5.0	123.9	18.6	27.8	10.7
2/01/2024	24.8	18.1	31.8	24.8	18.6	31.3	68.2	41.6	100.0	306.1	1272.8	0.0	2.1	0.3	5.3	137.8	22.4	85.4	6.6
3/01/2024	24.9	18.3	32.8	24.9	18.9	32.2	66.7	35.4	100.0	327.9	1165.0	0.0	1.7	0.2	5.3	128.6	21.6	72.6	7.2
4/01/2024	23.5	18.1	33.2	23.7	18.8	33.0	83.7	39.8	100.0	221.1	1360.2	38.2	1.4	0.1	6.6	162.8	27.0	88.4	8.6
5/01/2024	21.6	19.8	24.0	21.7	20.1	23.7	76.2	60.6	99.2	119.9	1067.2	3.0	2.4	0.9	4.8	133.8	18.0	35.4	10.1
6/01/2024	22.2	18.2	27.2	22.2	18.5	26.8	61.6	41.8	82.9	268.1	1212.1	0.2	2.7	1.0	5.2	125.5	19.4	31.6	7.3
7/01/2024	24.0	16.2	31.3	24.2	17.2	31.3	61.3	37.1	96.5	319.7	1277.3	0.0	1.4	0.1	3.4	135.7	28.5	99.2	8.3
8/01/2024	23.0	18.2	27.8	23.1	18.6	27.6	81.2	52.2	100.0	112.8	397.5	0.6	1.4	0.1	4.6	206.8	25.2	89.2	9.8
9/01/2024	24.9	21.5	31.3	24.8	21.7	30.2	77.7	53.4	100.0	305.0	1259.7	6.0	2.9	0.1	5.5	197.5	22.7	96.8	8.1
10/01/2024	25.7	21.3	32.3	25.7	21.4	31.7	76.6	53.1	99.8	258.6	1327.0	0.0	1.5	0.2	4.1	121.9	25.9	74.2	8.0
11/01/2024	26.2	21.2	32.9	26.3	21.9	32.6	77.7	46.4	100.0	230.4	1285.1	0.0	2.6	0.1	6.1	128.2	21.4	78.1	6.7
12/01/2024	26.0	22.4	31.1	26.0	22.7	30.6	68.8	41.6	95.3	298.8	1237.1	0.0	3.0	1.0	5.2	125.7	18.8	37.5	9.6
13/01/2024	26.4	19.3	34.6	26.4	20.2	34.4	65.7	32.8	100.0	388.2	1211.9	0.0	2.0	0.2	5.7	130.9	23.5	91.3	7.0
14/01/2024	23.7	20.5	25.9	23.7	20.4	25.9	77.3	62.8	99.9	174.2	737.8	3.4	2.6	0.8	4.7	138.4	17.4	26.6	11.2
15/01/2024	21.3	18.8	24.0	21.3	18.7	23.9	87.2	69.2	100.0	114.9	482.8	4.8	2.8	0.4	6.2	132.9	17.4	40.3	9.5
16/01/2024	22.4	18.6	26.4	22.4	18.7	25.9	81.8	62.5	100.0	167.0	827.9	0.4	2.1	0.9	4.4	137.4	18.1	29.3	8.4
17/01/2024	24.3	18.5	32.8	24.4	18.9	32.3	83.0	43.2	100.0	235.6	1156.1	14.4	1.0	0.1	3.5	196.3	31.0	78.3	5.3
18/01/2024	27.1	20.8	34.1	27.1	22.1	33.4	67.9	33.7	100.0	387.0	1262.7	0.0	2.5	0.1	5.1	276.3	26.1	85.3	10.0
19/01/2024	23.0	12.5	33.4	23.3	13.1	33.2	57.8	21.2	100.0	402.3	1269.5	0.0	1.7	0.1	5.9	170.8	31.9	85.2	9.4
20/01/2024	25.4	19.8	32.8	25.4	20.3	32.4	63.8	37.0	87.9	371.8	1253.0	0.0	2.0	0.4	5.3	131.0	25.0	93.7	7.7
21/01/2024	29.1	17.8	40.5	29.4	18.7	40.0	56.2	15.9	100.0	406.2	1195.8	0.0	2.0	0.2	5.3	222.0	23.9	80.3	8.3
22/01/2024	24.3	21.6	28.7	24.5	21.7	28.0	59.0	43.2	75.9	288.7	1304.9	0.0	3.3	0.1	5.8	119.5	21.1	72.7	11.6
23/01/2024	22.9	18.9	28.3	22.8	18.9	27.1	66.5	46.6	99.9	262.5	1465.4	0.0	2.9	0.8	5.6	122.8	19.5	32.0	9.6
24/01/2024	26.0	14.1	38.0	26.2	14.9	37.6	59.8	24.8	100.0	380.6	1226.5	0.0	1.3	0.1	3.8	241.5	27.3	90.3	7.3
25/01/2024	31.4	23.0	41.6	31.7	23.9	40.9	49.0	20.9	80.2	343.1	1413.5	0.0	1.7	0.1	5.9	218.6	31.0	87.1	7.0
26/01/2024	31.9	23.2	41.6	32.3	24.0	41.0	47.7	21.1	82.1	315.4	1340.4	0.0	3.3	0.1	6.5	217.1	24.6	100.0	6.6
27/01/2024	23.3	21.9	25.4	23.2	22.0	25.1	72.3	63.8	86.3	85.7	405.3	0.0	2.8	1.0	4.3	111.5	18.4	30.4	12.0
28/01/2024	24.1	21.2	27.2	24.1	21.5	26.6	71.3	59.7	88.5	124.6	601.3	0.0	2.4	0.1	4.6	126.2	18.7	88.8	6.2
29/01/2024	28.4	20.1	38.0	28.3	20.9	37.6	62.0	30.4	94.2	379.5	1141.6	0.0	1.7	0.3	5.8	141.3	28.0	98.5	9.1
30/01/2024	27.8	23.9	33.7	27.7	24.2	32.9	67.1	45.5	84.5	234.7	1236.0	0.0	2.6	1.0	6.2	123.2	19.2	42.5	9.6
31/01/2024	26.2	21.5	32.6	26.1	22.0	31.7	72.2	41.4	99.9	276.8	1242.7	0.2	2.4	0.3	5.7	116.0	20.1	53.8	9.4
Total	25.2	12.5	41.6	25.2	13.1	41.0	68.8	15.9	100	270.9	1465.4	71.2	2.2	0.1	6.6	155.2	23.0	100.0	5.3

This page is intentionally left blank.

