

**WAMBO COAL
POLLUTION MONITORING DATA
1 OCTOBER 2023 – 31 OCTOBER 2023
OCTOBER MONTHLY REPORT**

Published 8 November 2023

**Environment Protection Licence Number: 529
Licensee: Wambo Coal Pty Limited, PMB 1, Singleton NSW 2330
Premises: Wambo Coal Pty Limited, Jerrys Plains Road, Warkworth NSW 2330**

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	31/10/2023	7.43	977	<5	
Point 25	SW02	31/10/2023	7.46	897	<5	
Point 26	SW03	31/10/2023	7.59	1040	8	
Point 27	SW04	31/10/2023	-	-	-	DRY
Point 28	SW05	31/10/2023	-	-	-	DRY
Point 29	SW06	31/10/2023	-	-	-	DRY
Point 30	SW07	31/10/2023	-	-	-	NO FLOW
Point 31	SW08	31/10/2023	-	-	-	DRY
Point 33	SW15	09/10/2023	8.90	5510	10	
Point 34	SW27a	31/10/2023	-	-	-	DRY
Point 36	SW32a	31/10/2023	-	-	-	DRY
Point 39	SW39	31/10/2023	-	-	-	DRY
Point 40	SW40	31/10/2023	-	-	-	NO FLOW
Point 41	SW41	31/10/2023	-	-	-	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 October						
Point 19	No Discharges in October						

Sewerage Treatment Monitoring

Monitoring Frequency: Quarterly during discharge
 Sampling Method: Grab sample
 Limits: Nil
 Date sampled: 10 October 2023
 Date obtained: Within 7 days of sample collection

Table 3- WCPL Discharge Monitoring

EPL ID	Site ID	Date	pH	Faecal Coliforms (CFU/100mL)	Comments
Point 43	STPD3	-	-	-	No discharge
Point 52	STPD2	9/10/23	9	80	
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 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
1/10/2023	27.9	14.39	19.1	11.08	30.1	16.56	60.6	20.53
2/10/2023	51.2	14.50	35.0	11.15	54.1	16.68	42.4	20.62
3/10/2023	30.0	14.57	18.9	11.19	28.4	16.73	69.8	20.79
4/10/2023	27.6	14.62	16.4	11.22	27.6	16.78	38.6	20.88
5/10/2023	5.1	14.59	1.9	11.19	6.1	16.75	12.7	20.88
6/10/2023	14.2	14.61	8.5	11.20	16.0	16.75	15.2	20.88
7/10/2023	13.1	14.62	10.9	11.22	25.3	16.80	12.7	20.91
8/10/2023	13.3	14.64	10.0	11.23	26.1	16.85	13.4	20.92
9/10/2023	16.0	14.66	5.4	11.24	14.5	16.88	17.8	20.95
10/10/2023	17.3	14.69	17.4	11.28	44.2	16.98	19.8	20.95
11/10/2023	23.8	14.73	16.6	11.30	35.6	17.04	26.5	20.96
12/10/2023	22.4	14.75	15.8	11.32	20.7	17.06	39.7	21.03
13/10/2023	9.0	14.75	3.9	11.30	9.0	17.05	15.2	21.04
14/10/2023	10.1	14.73	7.1	11.29	12.7	17.03	42.1	21.12
15/10/2023	15.2	14.74	9.6	11.30	20.9	17.07	31.8	21.16
16/10/2023	22.3	14.77	13.6	11.32	39.6	17.14	47.6	21.26
17/10/2023	17.8	14.78	7.0	11.31	31.2	17.19	16.1	21.27
18/10/2023	23.8	14.82	14.9	11.33	73.4	17.36	12.3	21.28
19/10/2023	20.8	14.84	20.6	11.36	38.3	17.43	21.3	21.29
20/10/2023	29.4	14.88	15.4	11.37	33.5	17.48	39.0	21.37
21/10/2023	34.5	14.95	28.4	11.43	52.8	17.60	38.9	21.44
22/10/2023	23.8	15.00	19.8	11.47	36.1	17.68	45.6	21.54
23/10/2023	22.8	15.03	13.4	11.50	23.1	17.72	46.7	21.64
24/10/2023	24.5	15.07	15.7	11.52	28.3	17.77	65.2	21.79
25/10/2023	45.1	15.17	26.8	11.58	40.0	17.86	44.9	21.86
26/10/2023	16.3	15.19	9.6	11.58	20.2	17.89	15.8	21.84
27/10/2023	7.0	15.19	6.0	11.58	12.2	17.91	9.7	21.80
28/10/2023	12.3	15.20	8.9	11.59	11.9	17.93	11.0	21.77
29/10/2023	15.4	15.21	10.2	11.61	16.8	17.96	17.3	21.72
30/10/2023	27.2	15.26	12.8	11.64	20.9	17.99	46.8	21.76
31/10/2023	29.1	15.31	21.8	11.68	27.9	18.03	60.6	21.87

*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
1/10/2023	29.8	12.2	35.3	29.8	13.1	34.8	26.1	13.2	93.8	393.5	985.3	0	3.9	0.7	6.7	291.2	22.2	50.5	13.3
2/10/2023	22.2	15.6	29.7	22.2	16.9	29.0	56.5	27.5	95.2	288.0	949.8	0	2.3	0.1	5.9	136.6	22.2	69.9	8.2
3/10/2023	23.9	10.2	35.2	24.4	11.1	34.5	49.5	13.3	100.0	287.5	959.2	0	2.4	0.1	6.1	246.5	24.1	98.5	7.3
4/10/2023	20.4	12.1	27.1	21.6	12.4	26.7	54.5	22.3	100.0	111.2	680.2	13.4	2.7	0.1	7.3	281.6	25.4	87.9	13.7
5/10/2023	16.1	9.6	21.4	16.1	12.1	20.8	49.3	23.3	78.2	310.4	1097.9	0.2	4.2	0.2	8.2	280.0	20.8	90.4	12.1
6/10/2023	14.7	4.9	23.1	15.2	6.7	22.2	60.0	30.8	95.2	267.6	1134.5	0	2.0	0.1	5.5	163.9	31.6	92.0	11.7
7/10/2023	15.6	10.6	20.5	15.5	11.2	19.9	60.6	36.9	84.0	206.5	924.4	0	2.6	0.3	5.5	145.1	19.6	61.7	6.8
8/10/2023	15.2	7.0	22.9	15.3	7.9	22.4	63.7	29.9	100.0	321.5	1110.2	0	1.7	0.1	5.7	149.8	25.6	67.8	6.1
9/10/2023	17.4	4.9	28.4	17.6	6.0	27.6	57.9	22.6	100.0	311.4	1051.1	0	1.5	0.0	3.9	235.8	26.0	98.8	5.3
10/10/2023	17.9	9.8	26.2	18.1	10.6	25.7	66.0	26.5	99.5	260.2	1111.3	0	2.0	0.0	4.9	112.9	27.5	94.9	8.3
11/10/2023	21.4	15.5	28.8	21.3	16.3	28.4	59.4	23.2	88.3	292.7	1066.5	0	1.1	0.2	4.0	155.2	32.4	93.4	7.5
12/10/2023	22.5	7.8	33.7	22.6	8.8	32.8	52.4	15.0	100.0	326.3	1044.0	0	2.7	0.1	15.8	246.0	24.0	80.1	7.1
13/10/2023	19.3	10.0	26.9	19.3	11.4	26.3	35.8	14.0	64.0	353.5	1099.3	0	2.4	0.1	5.5	233.3	27.4	90.2	11.0
14/10/2023	18.8	6.2	29.7	19.5	7.2	29.1	50.2	19.6	97.1	318.3	998.7	0	2.4	0.0	5.3	237.5	29.2	95.4	8.2
15/10/2023	19.8	7.3	31.4	20.5	9.1	30.7	45.6	13.2	94.4	325.9	1020.7	0	2.0	0.1	5.2	231.6	26.6	91.8	7.1
16/10/2023	18.6	7.0	28.7	18.8	8.3	27.9	44.5	19.5	94.5	304.8	1029.6	0	3.6	0.1	9.8	233.3	23.2	86.9	6.9
17/10/2023	16.0	11.5	21.8	16.0	12.5	20.9	47.1	32.1	83.8	250.2	1117.2	0	3.0	0.4	5.6	155.6	19.7	42.1	8.1
18/10/2023	16.2	8.9	23.1	16.3	10.6	22.5	68.4	34.4	100.0	191.9	866.1	0.2	2.2	0.6	5.9	125.7	22.1	66.2	6.8
19/10/2023	17.6	10.1	24.8	17.6	11.6	24.2	65.2	34.1	99.1	247.3	1127.0	0.0	1.8	0.1	4.9	135.8	25.5	74.8	4.7
20/10/2023	20.4	7.7	31.3	20.6	9.1	30.7	59.9	22.2	100.0	314.0	985.4	0.0	1.4	0.0	5.2	145.6	28.8	93.1	5.6
21/10/2023	23.2	10.8	35.5	23.5	12.0	34.9	57.3	14.8	100.0	299.9	968.2	0.0	1.5	0.1	5.2	187.0	28.4	97.8	6.6
22/10/2023	23.7	12.9	33.6	24.1	13.8	32.5	47.0	12.4	100.0	315.5	980.2	0.0	2.8	0.1	7.8	227.4	28.1	91.2	9.7
23/10/2023	20.2	7.4	31.1	21.0	9.4	30.2	38.7	11.5	83.2	326.8	1010.0	0.0	2.4	0.0	5.2	240.5	26.3	95.1	7.3
24/10/2023	21.6	6.8	36.0	22.2	7.9	35.3	44.4	9.8	97.4	314.8	980.3	0.0	1.5	0.0	4.5	237.9	30.3	99.5	6.1
25/10/2023	22.6	9.4	35.3	23.2	11.4	34.4	42.8	10.6	81.8	294.1	1017.9	0.2	2.8	0.1	5.3	204.3	24.5	79.3	10.4
26/10/2023	13.9	11.2	17.4	13.9	11.0	17.7	78.7	47.7	100.0	58.8	307.3	13.8	2.4	1.0	4.4	147.9	17.0	32.1	8.0
27/10/2023	14.1	11.2	18.3	14.1	11.1	17.6	75.9	56.8	100.0	202.0	1037.3	5.0	3.0	0.8	6.1	149.3	16.9	28.8	10.0
28/10/2023	15.3	9.8	21.3	15.4	10.6	20.7	65.6	37.6	94.9	215.4	1264.3	0	1.6	0.1	3.4	128.7	23.7	85.2	7.5
29/10/2023	17.7	6.6	27.8	18.0	7.8	27.3	58.6	21.0	100.0	352.6	1127.0	0	1.3	0.0	3.2	172.0	27.8	85.3	5.8
30/10/2023	21.4	6.8	33.6	21.9	7.8	33.0	49.7	15.5	100.0	356.2	1105.7	0	1.9	0.0	5.3	249.8	28.6	97.5	8.6
31/10/2023	23.1	16.4	32.6	23.5	17.1	31.9	41.5	6.2	68.4	323.3	1160.1	0	3.1	0.1	7.4	193.4	27.4	98.1	11.0
Total	19.3	4.9	36	19.6	6	35.3	54.2	6.2	100	280.9	1264.3	32.8	2.3	0	15.8	195.3	25.3	99.5	4.7

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