

**WAMBO COAL  
POLLUTION MONITORING DATA  
1 APRIL 2023 – 30 APRIL 2023**

**APRIL MONTHLY REPORT**

Published 12 May 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	28/04/2023	7.53	682	<5	
Point 25	SW02	28/04/2023	7.52	672	<5	
Point 26	SW03	28/04/2023	7.50	671	<5	
Point 27	SW04	28/04/2023	-	-	-	DRY
Point 28	SW05	28/04/2023	-	-	-	DRY
Point 29	SW06	28/04/2023	7.14	368	<5	
Point 30	SW07	28/04/2023	7.36	705	<5	
Point 31	SW08	28/04/2023	7.91	4910	13	
Point 33	SW15	12/04/2023	8.69	5510	32	
Point 34	SW27a	28/04/2023	-	-	-	DRY
Point 36	SW32a	28/04/2023	-	-	-	DRY
Point 39	SW39	28/04/2023	-	-	-	DRY
Point 40	SW40	28/04/2023	7.50	741	<5	
Point 41	SW41	28/04/2023	-	-	-	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 April						
Point 19	No Discharges in April						

**Sewerage Treatment Monitoring**

Monitoring Frequency: Quarterly during discharge  
 Sampling Method: Grab sample  
 Limits: Nil  
 Date sampled: 12 April 2023  
 Date obtained: Within 7 days of 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	12/04/23	8.9	360	
Point 56	STP1				Sampled 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
1/04/2023	9.5	11.88	6.8	9.09	10.8	13.28	13.3	15.85
2/04/2023	6.9	11.88	7.9	9.10	10.8	13.29	11.3	15.86
3/04/2023	9.9	11.89	NaN	9.11	14.3	13.32	21.3	15.90
4/04/2023	9.7	11.90	NaN	9.12	13.0	13.33	15.1	15.88
5/04/2023	10.9	11.90	7.5	9.12	14.1	13.35	13.3	15.86
6/04/2023	14.5	11.90	NaN	9.11	13.7	13.35	18.2	15.85
7/04/2023	8.8	11.89	NaN	9.10	11.6	13.33	17.2	15.85
8/04/2023	9.6	11.90	NaN	9.12	8.7	13.33	35.4	15.93
9/04/2023	8.3	11.90	NaN	9.12	7.2	13.32	29.6	15.98
10/04/2023	6.7	11.89	NaN	9.13	7.0	13.30	15.4	15.99
11/04/2023	9.5	11.89	NaN	9.13	9.5	13.29	15.8	16.00
12/04/2023	12.2	11.90	9.2	9.12	10.7	13.29	12.6	15.99
13/04/2023	7.5	11.89	5.7	9.12	7.6	13.26	11.0	15.99
14/04/2023	5.9	11.88	6.2	9.11	8.4	13.25	8.9	15.99
15/04/2023	10.7	11.89	4.5	9.11	12.1	13.26	15.3	16.01
16/04/2023	12.5	11.90	9.6	9.12	11.8	13.26	14.2	16.03
17/04/2023	12.6	11.91	9.5	9.13	12.5	13.27	14.1	16.04
18/04/2023	15.0	11.92	17.5	9.16	NaN	13.27	29.4	16.07
19/04/2023	19.6	11.95	13.8	9.18	NaN	13.28	19.3	16.09
20/04/2023	10.5	11.94	9.3	9.18	NaN	13.28	10.0	16.05
21/04/2023	10.4	11.95	9.6	9.19	NaN	13.30	13.7	16.03
22/04/2023	7.1	11.95	6.0	9.19	5.4	13.29	13.4	16.03
23/04/2023	9.3	11.95	5.9	9.20	7.7	13.28	11.6	16.04
24/04/2023	8.3	11.96	NaN	9.21	12.9	13.29	11.1	16.04
25/04/2023	12.2	11.98	NaN	9.22	20.2	13.33	11.4	16.05
26/04/2023	13.1	12.00	NaN	9.22	17.0	13.34	13.2	16.06
27/04/2023	15.4	12.02	11.4	9.24	15.1	13.35	7.7	16.04
28/04/2023	20.1	12.06	14.0	9.26	12.4	13.36	19.2	16.07
29/04/2023	15.6	12.08	14.5	9.29	18.0	13.39	24.6	16.11
30/04/2023	4.6	12.07	2.6	9.27	3.9	13.38	14.9	16.11

\*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
1/04/2023	19.3	12.4	25.1	18.9	12.9	24.2	70.8	45.6	100	356.0	1117.8	0	1.7	0.2	4.6	204	28.3	88.9	6.2
2/04/2023	18.8	14.8	24.9	18.4	14.5	24.2	81.8	53.8	100	224.8	1078.3	0	1.8	0.1	5	151	22.9	70.5	7
3/04/2023	19.9	15.4	25	19.5	15.5	23.9	86.0	59.5	100	192.7	1013.9	0	2.0	0.2	5.1	126	20.3	56.9	9.1
4/04/2023	19.5	15	24.5	19.3	15.4	23.9	88.0	58.5	100	154.7	930.9	0	1.6	0	4.5	141	21.9	75.7	9.4
5/04/2023	18.5	11.6	26.2	18.4	12.1	25.5	85.8	51.5	100	227.9	991.6	0.2	1.6	0.1	4.6	134	21.7	79.9	6.4
6/04/2023	18.3	12.5	24.9	18.2	12.7	23.7	87.2	61.8	100	191.4	1030.1	0	1.4	0.1	3.9	141	23.1	86	7
7/04/2023	18.4	12.3	26.3	18.4	12.4	25.5	90.7	58.4	100	111.0	769.1	1.6	1.0	0	3.1	218	32.8	94.5	6.3
8/04/2023	19.5	15.9	24	19.3	15.8	23.4	70.9	49	100	211.2	906.1	0.2	3.4	0	6.2	298	23.2	97.9	15.4
9/04/2023	17.2	8.8	23.5	17.2	10.1	22.5	66.5	41.3	100	256.6	932.8	0	3.3	0.4	5.6	273	22.9	75	11
10/04/2023	14.8	7.2	21.9	14.8	8.2	20.9	71.2	43.1	100	263.7	1153.5	0	2.0	0.1	4.4	245	28.0	87.7	8.5
11/04/2023	14.2	4.7	23.3	14.3	5	22.3	79.2	46	100	255.4	893.3	0	1.4	0	3.6	233	28.6	95.5	8
12/04/2023	15.0	7.6	21.2	14.9	8.2	20.5	85.3	56.2	100	142.8	775.5	7.2	1.6	0.1	4.6	238	30.4	90.9	6.6
13/04/2023	17.3	13.4	22.9	17.1	13.3	22	89.4	60.6	100	172.6	1109	2	1.2	0.1	3.6	187	29.2	88.8	8.5
14/04/2023	18.2	12.4	23.1	18.0	12.6	22.3	86.1	60	100	198.6	978.5	0	1.9	0	4.7	162	22.6	92.8	7.8
15/04/2023	17.8	9.2	27.2	17.6	9.7	26.4	78.6	35.6	100	246.6	937	0	1.0	0.1	2.8	225	27.5	93.4	6.9
16/04/2023	20.3	10.9	28.7	20.3	12.4	27.9	74.5	46.8	100	160.9	1047.8	0	2.2	0.1	6.2	203	27.3	90	11.5
17/04/2023	16.0	7.6	23.4	16.3	8.1	22.6	84.0	57.1	100	176.8	968.8	0	1.5	0.1	4.8	146	26.1	96.9	5.8
18/04/2023	17.2	9.4	23.7	17.1	10.1	22.9	82.6	56.3	100	209.0	909.5	0	1.7	0.1	4.6	147	21.5	97.4	7.1
19/04/2023	17.2	9.6	25.7	17.3	9.8	25.4	85.7	54.3	100	206.4	813.2	0	0.8	0	2.6	166	31.9	91.9	4.7
20/04/2023	16.6	13.4	18.4	16.4	14.2	17.9	100.0	100	100	38.6	216.4	8.4	1.4	0.1	3	150	18.7	86.1	7
21/04/2023	17.2	13.4	22.1	17.1	13.7	21.3	87.7	63.4	100	192.1	907	0.4	1.7	0	4.6	140	21.2	78.4	7.5
22/04/2023	16.7	13.4	20.6	16.7	14.2	19.9	96.0	76.2	100	80.0	614.9	0.4	1.2	0.2	2.6	164	19.0	70.2	8.1
23/04/2023	17.2	12.1	23.3	17.0	12.3	22.5	93.8	69.8	100	119.0	881.6	0.6	1.3	0.1	5.5	142	20.5	62.9	5.6
24/04/2023	18.8	14.5	23.9	18.6	14.9	22.9	86.5	56.3	100	166.1	878.5	0.6	1.9	0.1	4.8	133	19.3	62	7.8
25/04/2023	18.1	12.9	24.6	18.1	13.3	23.6	84.6	53.3	100	204.3	867.8	0	1.1	0	3.9	164	25.3	99.2	8.1
26/04/2023	16.5	8.1	24	16.6	8.7	23.4	85.2	57.8	100	192.7	932.7	0	1.4	0.1	3.8	145	27.3	94.1	8.8
27/04/2023	16.7	9.8	24.9	16.9	10.7	24.8	84.3	48.5	100	204.0	765.9	0	0.8	0.1	1.7	158	30.7	94.4	7.6
28/04/2023	17.3	8.8	28.4	17.5	8.6	27.9	82.5	41.2	100	203.3	756.9	0.2	1.1	0	3.2	226	25.4	78.9	1.4
29/04/2023	16.6	10.7	25	16.6	11.2	24.1	90.2	54.7	100	108.6	788.4	19	1.1	0.1	3.1	180	33.2	96.9	8.9
30/04/2023	16.2	11.3	20.9	16.0	11.5	20.1	83.6	60.9	100	126.4	959.6	0.4	2.5	0.4	4.7	298	24.5	83.8	12.9
<b>Total</b>	<b>17.5</b>	<b>4.7</b>	<b>28.7</b>	<b>17.4</b>	<b>5</b>	<b>27.9</b>	<b>84.1</b>	<b>35.6</b>	<b>100</b>	<b>184.8</b>	<b>1153.5</b>	<b>41.2</b>	<b>1.6</b>	<b>0</b>	<b>6.2</b>	<b>184</b>	<b>25.1</b>	<b>99.2</b>	<b>1.4</b>

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