

**WAMBO COAL  
POLLUTION MONITORING DATA  
1 APRIL 2022 – 30 APRIL 2022**

**APRIL MONTHLY REPORT**

Published 24 May 2022

**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	28/4/2022	7.25	480	11	
Point 25	SW02	28/4/2022	7.30	486	<5	
Point 26	SW03	28/4/2022	7.28	470	6	
Point 27	SW04	28/4/2022	7.38	348	<5	
Point 28	SW05	28/4/2022	-	-	-	No Flow
Point 29	SW06	28/4/2022	6.96	306	<5	
Point 30	SW07	28/4/2022	7.44	409	<5	
Point 31	SW08	28/4/2022	8.06	2030	<5	
Point 33	SW15	28/4/2022	8.64	3450	26	
Point 34	SW27a	28/4/2022	-	-	-	Dry
Point 36	SW32a	28/4/2022	-	-	-	No Flow
Point 39	SW39	28/4/2022	-	-	-	Dry
Point 40	SW40	28/4/2022	7.27	470	9	
Point 41	SW41	28/4/2022	-	-	-	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	Conductivity (µS/cm) Avg	TSS (mg/L)	Turbidity (NTU)	Volume (ML/day)	Comments
Point 4	6/4/2022	8.65	3366	16	32	14.93	
	7/4/2022	8.62	3535	14	28	11.83	
	8/4/2022	8.62	3629	24	40	9.40	
	9/4/2022	8.67	3767	22	40	8.45	
	10/4/2022	8.66	3649	32	55	16.81	
	11/4/2022	8.69	3555	11	34	24.94	
	12/4/2022	8.65	3838	12	27	17.76	
	13/4/2022	8.62	3628	27	55	11.87	
	14/4/2022	8.62	3564	40	55	38.21	
	15/4/2022	8.60	3568	26	40	43.42	
	16/4/2022	8.60	3520	40	65	26.29	
	17/4/2022	8.60	3541	23	45	9.51	
	18/4/2022	8.59	3453	17	36	18.52	
	19/4/2022	8.63	3342	25	45	0.26	
Point 19	No Discharges in April						

**Sewerage Treatment Monitoring**

Monitoring Frequency: Quarterly during discharge

Sampling Method: Grab sample

Limits: Nil

Date sampled: No sample in April

Date obtained:

Table 3- WCPL Discharge Monitoring

EPL ID	Site ID	Date	pH	Faecal Coliforms	Comments
Point 42	STPD2				
Point 52	STP2				
Point 55	STPD1	-	-	-	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 - Wambo Road (Caban) (EPA14)		PM03 - Thelander (EPA15)		PM04 - Muller (EPA16)		PM05 - 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
1/04/2022	5.5	11.69	4.0	8.30	5.9	13.07	5.6	15.10
2/04/2022	6.7	11.67	3.7	8.29	5.6	13.05	7.8	15.10
3/04/2022	7.5	11.67	6.6	8.29	7.7	13.04	20.2	15.13
4/04/2022	8.3	11.67	8.4	8.30	8.0	13.03	21.0	15.16
5/04/2022	16.2	11.68	11.4	8.32	14.7	13.05	24.0	15.19
6/04/2022	10.8	11.67	12.7	8.31	17.1	13.05	17.8	15.17
7/04/2022	7.3	11.66	1.1	8.30	8.6	13.03	4.4	15.14
8/04/2022	9.3	11.67	8.2	8.32	10.3	13.03	11.1	15.14
9/04/2022	8.7	11.67	8.5	8.33	13.8	13.04	11.9	15.15
10/04/2022	8.7	11.66	9.1	8.33	14.3	13.05	11.9	15.12
11/04/2022	9.7	11.66	10.5	8.33	10.7	13.03	17.0	15.11
12/04/2022	12.3	11.66	7.9	8.34	16.9	13.04	13.1	15.11
13/04/2022	8.3	11.64	6.7	8.34	11.9	13.03	7.9	15.09
14/04/2022	6.6	11.61	6.7	8.34	10.6	13.01	5.8	15.07
15/04/2022	8.8	11.56	7.2	8.34	11.7	13.01	10.4	15.04
16/04/2022	8.5	11.53	4.9	8.31	9.5	12.99	10.3	14.99
17/04/2022	12.0	11.51	7.0	8.29	11.9	12.95	15.4	14.96
18/04/2022	9.3	11.51	5.5	8.29	9.2	12.95	12.4	14.98
19/04/2022	13.3	11.53	11.1	8.31	13.5	12.96	25.1	15.03
20/04/2022	6.8	11.52	3.4	8.30	5.3	12.95	23.2	15.07
21/04/2022	8.0	11.50	5.7	8.29	10.9	12.94	12.9	15.04
22/04/2022	7.3	11.49	4.1	8.27	9.5	12.94	7.9	15.03
23/04/2022	7.8	11.48	6.2	8.27	10.0	12.94	10.2	15.01
24/04/2022	4.9	11.44	5.4	8.26	8.1	12.92	8.8	14.99
25/04/2022	5.1	11.41	7.4	8.25	12.3	12.91	8.7	14.97
26/04/2022	6.5	11.38	3.9	8.23	10.4	12.88	14.8	14.96
27/04/2022	6.3	11.34	6.6	8.21	8.1	12.86	8.0	14.93
28/04/2022	8.2	11.30	6.1	8.19	10.1	12.85	9.5	14.92
29/04/2022	7.3	11.28	7.9	8.18	7.4	12.83	15.2	14.92
30/04/2022	6.2	11.25	6.7	8.17	7.6	12.81	12.6	14.92

\*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			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
1/04/2022	18.4	15.8	20.8	18.4	16.1	20.4	61.5	56.3	69.5	176.6	653.1	0.0	3.1	0.4	6.2	184.4	24.8	80.7	11.2
2/04/2022	17.1	11.7	23.6	17.5	12.8	23.3	74.7	48.0	100.0	180.2	1153.6	0.0	0.9	0.1	3.0	223.3	38.8	96.6	8.1
3/04/2022	17.4	9.4	25.8	17.9	10.1	25.1	69.8	32.3	100.0	239.1	1084.2	0.2	1.8	0.0	4.9	231.0	29.3	98.0	9.2
4/04/2022	19.1	11.3	27.6	19.5	11.8	27.3	71.9	36.9	100.0	271.6	933.9	0.0	1.7	0.1	5.5	228.0	26.1	85.2	6.9
5/04/2022	19.1	10.4	29.1	19.4	10.7	28.7	71.9	29.3	100.0	272.7	928.8	0.0	0.9	0.0	4.0	174.0	33.9	100.1	7.4
6/04/2022	20.1	15.1	26.0	20.1	15.8	25.5	79.2	54.9	100.0	188.0	889.5	0.2	1.7	0.2	4.7	136.0	21.2	72.9	8.1
7/04/2022	18.9	17.0	22.2	18.9	16.9	21.7	92.7	73.9	100.0	60.6	652.9	14.0	2.0	0.6	5.5	146.1	18.2	35.8	9.3
8/04/2022	19.9	17.2	24.6	19.7	17.1	24.2	84.9	52.9	100.0	194.4	962.1	2.8	2.6	0.8	5.5	133.8	17.7	26.7	9.8
9/04/2022	20.2	16.2	24.9	20.3	16.8	24.3	80.6	58.3	100.0	219.8	906.6	0.0	2.2	0.6	5.4	138.7	18.4	43.1	7.1
10/04/2022	20.3	15.9	26.8	20.4	16.4	26.1	81.6	50.2	100.0	238.9	988.5	0.0	1.0	0.2	2.7	158.6	28.4	97.0	7.7
11/04/2022	20.8	13.9	29.2	20.9	14.5	28.9	80.2	46.3	100.0	212.2	885.2	0.2	1.1	0.0	3.1	213.0	29.0	83.3	6.9
12/04/2022	20.1	17.1	24.0	20.2	17.1	23.7	79.7	56.7	100.0	165.8	944.8	2.2	1.6	0.3	4.1	149.2	27.0	101.0	10.0
13/04/2022	17.3	15.2	21.2	17.2	15.4	20.6	90.1	67.7	100.0	110.7	886.2	9.0	1.7	0.5	4.5	141.1	16.6	35.6	6.4
14/04/2022	17.4	13.2	22.8	17.6	13.8	22.3	84.1	55.7	100.0	199.0	908.0	0.4	1.4	0.2	4.5	148.9	23.0	74.2	6.5
15/04/2022	17.2	10.3	25.1	17.4	10.8	24.7	81.1	45.3	100.0	243.6	1007.6	0.2	0.8	0.0	2.2	187.9	28.9	91.5	6.6
16/04/2022	16.9	11.3	24.1	17.1	11.6	23.6	82.5	46.9	100.0	190.0	912.3	0.0	0.8	0.0	2.4	172.0	27.6	91.7	5.6
17/04/2022	17.0	9.9	24.6	17.2	10.2	24.6	79.7	41.2	100.0	241.2	872.7	0.2	0.7	0.0	2.0	183.3	29.5	93.5	5.5
18/04/2022	17.8	10.0	26.9	17.9	10.3	26.4	78.8	39.8	100.0	222.9	847.9	0.2	1.1	0.0	3.4	225.8	24.9	78.5	5.8
19/04/2022	19.2	11.0	28.2	19.4	11.5	27.7	75.6	38.5	100.0	229.1	861.8	1.8	1.5	0.0	5.4	235.5	24.5	73.1	7.2
20/04/2022	18.2	10.7	24.0	18.2	11.4	23.3	69.8	47.6	100.0	245.9	844.4	0.0	2.8	0.2	4.8	286.9	24.2	100.8	10.6
21/04/2022	15.9	7.1	23.5	16.0	7.6	23.2	75.2	41.1	100.0	234.0	862.2	0.2	1.4	0.1	4.3	161.1	28.8	98.2	9.8
22/04/2022	16.6	14.6	19.4	16.5	14.8	19.1	88.2	70.6	100.0	71.0	558.7	3.4	1.8	0.5	4.3	157.9	17.5	41.5	6.9
23/04/2022	16.9	12.9	21.0	17.0	13.5	20.8	85.5	59.3	100.0	122.3	688.4	1.2	1.6	0.4	4.2	126.6	18.4	37.1	9.4
24/04/2022	16.4	13.2	21.2	16.5	13.4	20.9	90.8	62.7	100.0	107.1	749.2	0.4	1.2	0.1	5.6	166.0	21.7	73.7	6.6
25/04/2022	16.5	11.3	21.7	16.6	11.8	21.3	85.1	58.8	100.0	163.4	899.8	0.2	1.4	0.1	3.6	154.3	23.9	96.9	7.4
26/04/2022	16.8	13.9	20.3	16.9	14.1	20.0	91.6	72.3	100.0	68.1	432.6	1.0	1.1	0.2	3.0	160.6	23.9	65.9	9.2
27/04/2022	16.6	13.2	19.2	16.7	13.8	19.1	98.2	86.0	100.0	53.9	500.4	3.6	0.7	0.0	1.8	182.8	27.1	84.0	7.7
28/04/2022	18.9	16.6	22.1	18.9	16.6	21.9	96.6	81.3	100.0	66.0	541.9	0.8	0.5	0.0	1.4	158.7	32.4	83.0	10.0
29/04/2022	20.4	16.3	28.0	20.5	16.6	27.7	87.2	52.3	100.0	179.5	907.6	0.2	0.9	0.1	3.2	228.2	25.9	99.0	6.4
30/04/2022	17.5	10.8	22.1	17.9	11.7	22.2	93.5	71.4	100.0	24.6	205.2	4.8	1.6	0.1	5.3	239.4	27.5	99.2	7.0
	<b>18.2</b>	<b>7.1</b>	<b>29.2</b>	<b>18.3</b>	<b>7.6</b>	<b>28.9</b>	<b>82.3</b>	<b>29.3</b>	<b>100.0</b>	<b>173.0</b>	<b>1153.6</b>	<b>47.2</b>	<b>1.4</b>	<b>0.0</b>	<b>6.2</b>	<b>181.1</b>	<b>25.3</b>	<b>101.0</b>	<b>5.5</b>



