

**WAMBO COAL  
POLLUTION MONITORING DATA  
1 JANUARY 2023 – 31 JANUARY 2023**

**JANUARY MONTHLY REPORT**

Published 16 January 2023, Version 2 7 July 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-prpoec>

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	30/01/2023	7.53	907	<5	
Point 25	SW02	30/01/2023	7.54	813	5	
Point 26	SW03	30/01/2023	7.50	809	10	
Point 27	SW04	30/01/2023				DRY
Point 28	SW05	30/01/2023				POOL
Point 29	SW06	30/01/2023	7.02	366	42	
Point 30	SW07	30/01/2023	7.38	607	<5	
Point 31	SW08	30/01/2023	7.73	4250	16	
Point 33	SW15	18/01/2023	8.79	5800	21	
Point 34	SW27a	30/01/2023				DRY
Point 36	SW32a	30/01/2023				DRY
Point 39	SW39	30/01/2023				DRY
Point 40	SW40	30/01/2023	7.54	795	6	
Point 41	SW41	30/01/2023				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 January						
Point 19	No Discharges in January						

**Sewerage Treatment Monitoring**

Monitoring Frequency: Quarterly during discharge  
 Sampling Method: Grab sample  
 Limits: Nil  
 Date sampled: Refer to Table below  
 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	18/01/2023	8.91	~640	
Point 56	STP1	30/01/2023	7.42	390	

**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
1/01/2023	16	10.44	21.2	7.90	22.2	12.02	17.9	13.83
2/01/2023	20.9	10.45	29.8	7.94	24.4	12.03	16.9	13.84
3/01/2023	29.7	10.48	36.3	8.01	35.8	12.08	26.9	13.89
4/01/2023	18.8	10.48	37.4	8.07	27.8	12.09	21.3	13.90
5/01/2023	7.7	10.45	15.4	8.07	10.8	12.07	13.2	13.90
6/01/2023	6.2	10.44	12.4	8.07	6.8	12.05	6.5	13.89
7/01/2023	8.3	10.42	13.2	8.08	11.8	12.04	9.4	13.87
8/01/2023	12.7	10.42	20.7	8.10	16.5	12.05	15.1	13.86
9/01/2023	27.9	10.47	23.2	8.14	25.3	12.09	19.3	13.89
10/01/2023	15.6	10.48	18.0	8.16	19.3	12.11	16.3	13.91
11/01/2023	18.6	10.49	18.9	8.17	24	12.12	17.2	13.89
12/01/2023	21.7	10.50	21.9	8.18	27.4	12.14	25.7	13.93
13/01/2023	19.9	10.52	23.4	8.20	27.2	12.16	17.5	13.93
14/01/2023	14.4	10.53	14.5	8.22	22.4	12.18	20.8	13.94
15/01/2023	22.4	10.55	18.4	8.23	28.5	12.21	28.3	13.97
16/01/2023	17.4	10.55	17.0	8.25	32.3	12.25	24.2	13.98
17/01/2023	16.2	10.55	13.9	8.24	26.3	12.27	16.0	13.99
18/01/2023	32.3	10.54	19.4	8.22	24.1	12.25	19.5	13.97
19/01/2023	7.6	10.53	8.6	8.21	10.8	12.23	11.5	13.94
20/01/2023	10.1	10.53	7.0	8.21	15.1	12.25	12.8	13.96
21/01/2023	13.8	10.53	12.6	8.21	24.9	12.25	15.2	13.95
22/01/2023	9.3	10.51	5.4	8.19	12.2	12.21	14.4	13.94
23/01/2023	11.5	10.51	11.0	8.19	15.2	12.21	21.2	13.97
24/01/2023	24.5	10.56	20.4	8.22	27.6	12.23	27.5	14.02
25/01/2023	20.2	10.58	17.6	8.24	28.8	12.27	24.4	14.05
26/01/2023	18.3	10.59	17.2	8.26	27.7	12.29	20.5	14.07
27/01/2023	21.9	10.61	19.1	8.28	30.9	12.32	28.1	14.10
28/01/2023	19.6	10.62	13.7	8.29	34.1	12.36	30.6	14.15
29/01/2023	16.1	10.62	16.9	8.30	21.7	12.36	26.0	14.19
30/01/2023	11.7	10.61	11.3	8.29	13	12.33	15.6	14.18
31/01/2023	7.6	10.59	6.8	8.27	14.5	12.32	18.5	14.19

\*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
1/01/2023	26.0	20.8	30.4	25.2	20.6	29.0	69.8	52.2	95.3	401.4	1208.0	0.0	3.2	1.5	5.1	108.1	21.1	52.8	10.5
2/01/2023	24.6	17.9	32.3	24.0	18.1	31.2	74.5	41.1	100.0	379.6	1315.4	0.0	1.8	0.2	5.1	129.8	26.0	98.7	6.2
3/01/2023	26.2	19.6	35.4	25.7	19.8	34.2	70.0	40.0	100.0	353.7	1234.2	0.0	2.2	0.1	41.5	151.1	29.2	93.4	8.5
4/01/2023	23.6	19.1	32.4	23.1	18.9	31.1	85.6	51.4	100.0	292.5	1237.3	12.0	2.2	0.2	7.5	142.7	24.9	87.8	8.5
5/01/2023	19.5	16.0	23.0	19.1	15.9	22.0	84.6	61.2	100.0	145.1	988.9	1.6	3.3	0.6	6.2	159.5	18.5	44.7	11.6
6/01/2023	19.4	15.9	24.5	18.9	15.8	23.3	79.8	64.4	100.0	267.0	1231.9	1.2	3.0	0.8	5.7	176.5	17.8	31.6	9.8
7/01/2023	20.4	17.4	24.9	19.9	17.2	24.0	81.6	63.3	94.8	218.1	980.0	0.0	3.1	1.4	5.7	162.3	18.2	30.6	10.5
8/01/2023	21.8	16.9	28.4	21.3	17.0	27.5	70.9	39.2	97.4	365.5	1211.5	0.0	2.0	0.2	6.0	149.0	23.5	72.4	7.6
9/01/2023	22.6	12.2	33.1	22.1	12.4	32.0	73.0	39.1	100.0	414.6	1214.5	0.0	1.8	0.0	5.8	158.1	28.1	89.5	7.2
10/01/2023	22.2	13.0	30.9	21.8	13.2	29.8	76.0	45.6	100.0	401.8	1203.3	0.0	2.2	0.1	5.7	132.9	23.5	76.4	5.0
11/01/2023	23.6	19.3	29.4	23.0	19.2	28.0	74.3	50.6	96.4	315.3	1266.0	0.0	2.3	0.8	5.2	118.1	20.8	63.2	8.3
12/01/2023	23.9	16.2	31.8	23.4	16.8	30.4	76.5	50.7	100.0	389.6	1180.8	0.0	2.4	0.2	5.7	130.4	22.3	71.8	7.4
13/01/2023	24.3	18.4	31.1	23.7	18.3	29.9	77.3	46.3	100.0	323.1	1329.0	0.0	2.3	0.3	5.8	129.6	21.9	84.7	7.6
14/01/2023	24.3	18.7	30.4	23.7	18.9	28.7	75.3	45.4	100.0	305.9	1233.1	0.0	2.4	0.5	5.0	127.4	22.3	54.8	8.5
15/01/2023	25.9	15.4	35.1	25.5	15.8	33.8	70.1	40.5	100.0	391.4	1191.0	0.0	1.8	0.0	4.8	127.6	28.8	100.5	6.5
16/01/2023	25.1	20.4	31.2	24.5	20.2	29.5	74.1	46.7	100.0	314.5	1307.8	0.0	3.4	1.4	5.6	117.9	17.6	31.5	9.8
17/01/2023	24.8	18.1	31.5	24.2	18.2	29.9	75.9	46.3	100.0	340.2	1317.2	0.0	2.4	0.3	5.8	123.9	21.3	57.5	6.4
18/01/2023	26.6	15.5	36.8	26.2	15.7	35.6	66.9	32.3	100.0	396.8	1242.2	0.0	1.6	0.1	6.8	156.1	31.6	87.9	5.6
19/01/2023	20.6	16.7	24.8	20.2	16.4	24.5	94.4	78.4	100.0	70.9	413.5	5.2	1.9	0.1	4.4	164.8	23.5	91.9	8.3
20/01/2023	19.4	16.8	22.0	18.9	16.5	21.1	87.8	72.3	100.0	196.2	1008.7	0.6	2.3	1.1	5.2	149.1	17.7	29.7	8.5
21/01/2023	21.7	16.1	28.2	21.2	16.3	27.0	73.5	41.8	100.0	317.6	1331.9	0.2	2.1	0.1	5.8	131.8	24.6	75.8	11.9
22/01/2023	19.9	18.0	23.4	19.5	17.6	22.5	90.3	67.8	100.0	127.7	838.2	5.0	1.6	0.2	3.6	149.5	18.4	50.5	6.0
23/01/2023	22.0	17.6	29.2	21.5	17.5	28.2	80.5	50.3	100.0	238.9	1139.4	0.0	1.9	0.3	5.1	147.3	21.9	82.6	6.8
24/01/2023	24.3	17.5	33.7	23.9	17.9	32.8	76.4	37.2	100.0	333.2	1197.7	14.8	1.5	0.1	6.4	114.1	29.7	86.3	7.5
25/01/2023	25.3	18.4	34.4	25.0	18.5	33.5	75.4	38.4	100.0	374.2	1224.7	0.0	1.8	0.1	5.9	144.9	26.6	92.8	7.0
26/01/2023	27.1	17.1	40.1	26.8	17.4	39.1	68.7	24.2	100.0	330.2	1257.4	0.6	1.8	0.0	21.5	220.0	30.2	94.9	6.1
27/01/2023	26.3	21.0	33.6	25.8	21.2	32.5	76.4	50.5	97.0	338.2	1174.0	0.2	2.3	0.1	6.2	134.5	21.8	101.2	8.8
28/01/2023	28.6	22.2	36.2	28.2	22.4	35.2	74.4	40.4	100.0	293.1	1148.5	0.0	1.1	0.1	2.9	143.9	28.6	93.4	9.5
29/01/2023	27.2	21.3	39.6	26.7	21.3	38.4	81.2	30.2	100.0	283.4	1236.3	1.0	1.7	0.1	6.4	196.7	26.8	93.3	8.4
30/01/2023	22.7	21.3	24.9	22.3	20.6	24.5	98.6	90.5	100.0	76.5	675.0	12.6	1.2	0.2	3.9	161.2	26.0	88.7	8.0
31/01/2023	24.6	20.8	30.4	24.2	20.7	29.5	79.2	54.3	100.0	245.1	1099.8	0.0	1.6	0.4	3.7	145.1	25.1	76.7	9.1
<b>Total</b>	<b>23.7</b>	<b>12.2</b>	<b>40.1</b>	<b>23.2</b>	<b>12.4</b>	<b>39.1</b>	<b>77.9</b>	<b>24.2</b>	<b>100.0</b>	<b>297.2</b>	<b>1331.9</b>	<b>55.0</b>	<b>2.1</b>	<b>0.0</b>	<b>41.5</b>	<b>145.6</b>	<b>23.8</b>	<b>101.2</b>	<b>5.0</b>

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