

WAMBO COAL  
POLLUTION MONITORING DATA  
1 AUGUST 2024 – 31 AUGUST 2024

AUGUST MONTHLY REPORT

Published 09 September 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	28/08/2024	7.48	605	29	
Point 25	SW02	28/08/2024	7.49	640	<5	
Point 26	SW03	28/08/2024	7.42	639	<5	
Point 27	SW04	28/08/2024	-	-	-	DRY
Point 28	SW05	28/08/2024	-	-	-	DRY
Point 29	SW06	28/08/2024	7.05	330	<5	
Point 30	SW07	28/08/2024	7.23	710	<5	
Point 31	SW08	28/08/2024	8.04	2580	<5	
Point 33	SW15	12/08/2024	8.85	5510	50	
Point 34	SW27a	28/08/2024	-	-	-	DRY
Point 36	SW32a	28/08/2024	-	-	-	DRY
Point 39	SW39	28/08/2024	-	-	-	DRY
Point 40	SW40	28/08/2024	-	-	-	No access
Point 41	SW41	28/08/2024	-	-	-	Pool
Point 42	SW54	28/08/2024	-	-	-	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 Discharge in August						
Point 19	No Discharge in August						

Sewerage Treatment Monitoring

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

Table 3- WCPL Discharge Monitoring

EPL ID	Site ID	Date	pH	Faecal Coliforms (CFU/100mL)	Comments
Point 43	STPD3	-	-	-	No discharge
Point 52	STPD2				Sample required Quarterly
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 <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
1/08/2024	9.6	15.49	5.4	11.80	11.0	19.48	13.2	21.71
2/08/2024	14.8	15.49	6.4	11.77	12.2	19.43	12.1	21.69
3/08/2024	9.8	15.48	7.7	11.77	9.0	19.40	15.5	21.70
4/08/2024	15.0	15.47	11.4	11.77	15.5	19.38	14.7	21.66
5/08/2024	15.6	15.46	13.7	11.78	14.0	19.37	24.5	21.66
6/08/2024	6.8	15.45	11.7	11.78	9.6	19.32	12.1	21.66
7/08/2024	7.9	15.44	8.0	11.76	9.5	19.24	10.9	21.66
8/08/2024	15.4	15.46	10.1	11.76	15.0	19.20	16.1	21.67
9/08/2024	11.3	15.44	8.6	11.76	12.1	19.19	23.5	21.68
10/08/2024	13.8	15.43	14.3	11.77	20.7	19.19	19.1	21.63
11/08/2024	10.3	15.39	13.1	11.78	19.2	19.19	20.2	21.63
12/08/2024	7.5	15.36	6.4	11.77	11.3	19.16	21.8	21.60
13/08/2024	6.6	15.34	7.5	11.76	9.8	19.14	9.9	21.56
14/08/2024	5.0	15.33	4.6	11.75	12.0	19.13	14.0	21.57
15/08/2024	4.7	15.33	2.3	11.74	8.1	19.12	5.6	21.58
16/08/2024	6.7	15.32	3.8	11.73	11.8	19.12	13.8	21.59
17/08/2024	7.7	15.32	4.8	11.72	6.2	19.11	24.8	21.60
18/08/2024	7.7	15.32	3.7	11.72	7.8	19.11	10.8	21.59
19/08/2024	11.1	15.33	11.2	11.74	17.7	19.14	22.4	21.58
20/08/2024	12.4	15.34	7.7	11.72	14.2	19.15	8.7	21.57
21/08/2024	14.7	15.36	8.6	11.73	15.9	19.18	42.6	21.64
22/08/2024	9.3	15.34	3.6	11.72	9.2	19.17	39.4	21.69
23/08/2024	19.5	15.37	10.6	11.72	18.0	19.17	21.2	21.70
24/08/2024	13.1	15.36	9.7	11.71	12.9	19.12	24.8	21.72
25/08/2024	14.7	15.35	9.1	11.70	11.8	19.09	19.4	21.72
26/08/2024	11.2	15.33	7.4	11.67	9.7	19.04	15.2	21.71
27/08/2024	8.2	15.30	4.2	11.65	7.2	19.01	23.5	21.73
28/08/2024	17.6	15.30	7.1	11.65	12.3	18.98	53.3	21.83
29/08/2024	18.9	15.30	10.4	11.64	14.1	18.95	44.7	21.88
30/08/2024	27.7	15.31	10.9	11.64	14.8	18.93	64.4	21.95
31/08/2024	18.1	15.34	10.7	11.65	15.6	18.94	61.0	22.08

\*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
1/08/2024	11.2	5.0	15.6	11.5	5.8	15.2	74.3	52.7	100.0	124.9	511.8	0.0	1.5	0.0	4.3	164.9	30.2	102.7	8.3
2/08/2024	9.3	3.5	17.8	10.1	4.0	17.5	82.5	39.7	100.0	97.1	517.3	0.0	1.0	0.1	3.0	143.2	29.1	96.4	7.3
3/08/2024	7.9	0.4	18.3	8.6	1.0	17.8	81.2	34.0	100.0	125.7	476.1	0.0	0.8	0.1	1.9	191.8	27.5	89.4	5.2
4/08/2024	8.1	-0.8	17.6	8.5	-0.2	17.3	81.6	45.1	100.0	96.7	495.7	0.0	0.7	0.0	2.3	213.2	30.3	96.6	2.2
5/08/2024	10.5	5.2	16.9	10.7	5.8	16.4	90.4	54.1	100.0	60.6	394.8	13.6	0.6	0.0	2.4	191.6	31.7	97.0	6.3
6/08/2024	11.9	6.3	17.9	12.0	7.6	17.5	87.0	50.7	100.0	103.6	555.0	0.6	0.8	0.1	2.0	223.1	29.3	100.0	7.5
7/08/2024	9.2	1.3	19.0	9.7	1.5	18.6	79.9	36.3	100.0	132.3	510.0	0.0	0.9	0.0	3.0	213.8	28.4	82.9	6.5
8/08/2024	10.0	1.8	20.4	10.5	2.2	19.8	84.3	46.4	100.0	127.5	486.6	0.0	0.8	0.0	1.9	182.0	27.9	79.2	6.7
9/08/2024	12.0	3.8	21.8	12.4	4.5	21.3	80.8	42.2	100.0	116.2	535.4	0.0	1.0	0.0	3.9	227.8	26.6	84.0	6.3
10/08/2024	12.4	4.5	19.5	12.8	5.4	19.1	85.8	59.0	100.0	120.2	517.7	0.0	1.1	0.1	2.8	148.7	26.3	87.2	6.0
11/08/2024	12.6	6.8	18.2	13.2	8.5	17.8	88.8	61.7	100.0	83.7	548.5	1.6	1.1	0.0	3.1	168.5	27.4	98.5	8.4
12/08/2024	13.5	9.7	16.5	13.9	10.6	16.4	97.8	85.4	100.0	35.1	231.5	2.6	1.1	0.2	2.9	168.0	24.9	78.4	6.6
13/08/2024	16.4	13.6	20.3	16.4	13.9	19.9	91.0	69.3	100.0	62.7	319.2	1.6	1.1	0.3	2.1	164.7	19.5	76.1	8.7
14/08/2024	15.4	13.9	16.8	15.4	14.2	16.5	99.9	99.6	100.0	36.2	164.5	6.6	0.8	0.1	2.3	168.6	23.8	88.2	7.7
15/08/2024	16.2	14.4	19.0	16.3	14.8	18.6	95.2	78.9	100.0	62.8	358.9	0.6	1.2	0.3	2.7	163.2	16.7	51.6	4.6
16/08/2024	16.9	13.5	22.2	17.0	14.2	21.7	86.8	59.0	100.0	82.0	452.9	1.6	1.0	0.1	2.4	212.9	27.4	97.5	7.7
17/08/2024	15.7	12.8	20.5	15.7	12.8	20.0	67.8	36.8	100.0	137.2	591.1	0.6	3.0	0.4	5.5	283.0	24.7	86.4	9.0
18/08/2024	14.7	11.3	19.7	14.7	11.5	19.4	73.0	43.2	99.9	112.0	652.2	0.2	1.9	0.1	4.3	215.1	25.4	100.0	8.7
19/08/2024	14.3	9.9	20.0	14.4	10.7	19.4	77.8	49.4	100.0	128.0	669.7	0.0	1.4	0.1	4.2	132.0	20.4	73.4	5.9
20/08/2024	13.0	5.5	21.8	13.4	5.8	21.6	86.6	49.5	100.0	122.3	522.8	0.2	0.8	0.0	2.1	189.9	30.1	100.5	6.2
21/08/2024	17.6	8.2	25.3	18.0	9.0	25.0	64.9	32.8	100.0	115.1	527.6	0.0	2.4	0.1	5.5	240.4	22.9	72.9	4.8
22/08/2024	16.0	8.5	22.9	16.4	9.5	22.4	65.6	38.3	100.0	102.6	484.8	0.0	1.7	0.1	4.5	241.7	29.4	94.4	12.2
23/08/2024	12.6	4.0	21.7	13.2	5.0	21.4	78.2	39.3	100.0	133.6	552.6	0.0	0.8	0.1	2.4	191.3	32.0	93.8	6.5
24/08/2024	17.0	7.8	24.6	17.2	8.2	24.4	67.0	38.1	100.0	96.6	536.8	0.8	2.9	0.1	6.7	253.8	30.9	96.9	12.4
25/08/2024	18.6	16.6	21.1	18.7	16.4	21.4	77.6	51.2	99.9	24.4	128.5	7.8	2.6	0.4	4.5	290.4	25.3	92.5	11.6
26/08/2024	18.5	8.6	24.3	19.0	10.3	24.1	59.3	30.6	99.1	172.7	624.2	0.2	3.0	0.2	5.6	273.1	25.7	100.2	9.8
27/08/2024	14.9	3.9	25.1	15.6	4.9	24.8	63.7	29.8	100.0	169.5	617.8	0.0	2.0	0.2	4.4	260.8	30.6	87.3	7.8
28/08/2024	21.5	14.5	28.0	21.7	14.8	27.7	35.6	19.7	49.6	167.6	616.1	0.0	4.1	1.2	9.1	301.8	22.3	38.2	15.8
29/08/2024	18.2	10.3	23.4	18.3	11.2	23.0	45.2	28.1	76.3	167.2	597.2	0.0	2.7	0.3	4.4	279.9	26.9	75.3	14.3
30/08/2024	20.8	6.8	28.6	21.0	7.7	28.4	43.7	29.8	89.8	166.1	640.2	0.0	3.5	0.2	6.1	298.7	23.8	93.9	13.6
31/08/2024	21.0	16.0	24.1	21.1	16.2	24.6	35.3	21.8	50.1	187.3	664.7	0.0	3.9	1.8	6.9	296.7	20.9	33.2	14.8
<b>Total</b>	<b>14.5</b>	<b>-0.8</b>	<b>28.6</b>	<b>14.8</b>	<b>-0.2</b>	<b>28.4</b>	<b>75.1</b>	<b>19.7</b>	<b>100</b>	<b>111.8</b>	<b>669.7</b>	<b>38.6</b>	<b>1.7</b>	<b>0.0</b>	<b>9.1</b>	<b>216.4</b>	<b>26.4</b>	<b>102.7</b>	<b>2.2</b>

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