

**WAMBO COAL  
POLLUTION MONITORING DATA  
1 SEPTEMBER 2020 – 30 SEPTEMBER 2020  
SEPTEMBER REPORT**

Published 15 October 2020

**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**

<b>EPL ID</b>	<b>Site ID</b>	<b>Date</b>	<b>pH</b>	<b>EC (µS/cm)</b>	<b>TSS (mg/L)</b>	<b>Comments</b>
Point 24	SW01	30/9/2020	-	-	-	No Access
Point 25	SW02	30/9/2020	7.2	581	<5	-
Point 26	SW03	30/9/2020	7.3	597	10	-
Point 27	SW04	30/9/2020	-	-	-	Dry
Point 28	SW05	30/9/2020	-	-	-	Dry
Point 29	SW06	30/9/2020	7.0	471	<5	-
Point 30	SW07	30/9/2020	-	-	-	No Flow
Point 31	SW08	30/9/2020	6.5	568	<5	-
Point 32	SW14	16/9/2020	8.6	604	5	-
Point 33	SW15	16/9/2020	8.6	6520	62	-
Point 34	SW27a	30/9/2020	-	-	-	Dry
Point 35	SW31	16/9/2020	9.0	6170	22	-
Point 36	SW32a	30/9/2020	-	-	-	Dry
Point 37	SW38	16/9/2020	9.0	6530	7	-
Point 38	SW12	16/9/2020	8.8	5580	22	-
Point 39	SW39	30/9/2020	-	-	-	No Flow
Point 40	SW40	30/9/2020	7.1	582	<5	-
Point 41	SW41	30/9/2020	-	-	-	No Flow
Point 46	SW52	16/9/2020	9.0	4020	7	-
Point 47	Wombat Dam	16/9/2020	9.3	576	8	-
Point 48	Milk Can Dam	16/9/2020	8.6	1921	7	-
Point 49	Rug Dump Dam	16/9/2020	-	-	-	Low water
Point 50	Montrose East 1	30/9/2020	8.7	530	53	-
Point 51	Montrose East 2	30/9/2020	8.9	481	5	-

**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	TSS (mg/L)	Turbidity (NTU)	Volume (ML/day)	Comments
Point 4						No Discharges
Point 19						No Discharges

**Sewerage Treatment Monitoring**

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

Table 3- WCPL Discharge Monitoring

EPL ID	Site ID	Date	pH	Faecal Coliforms	Comments
Point 18	STPD1	-	-	-	No monitoring in September
Point 42	STPD2	16/9/20	8.98	140	
Point 52	STP2	-	-	-	No monitoring in September

**PM10 Monitoring**

Monitoring Frequency: Continuous

Sampling Method: AM22

Limits: Nil

Date sampled: Continuous

Date obtained: Continuous

Table 4 - WCPL PM10 Results

Date of Run	PM01 - Coralie (EPA13)		PM02 - Wambo Road (Caban) (EPA14)		PM03 - Thelander (EPA15)		PM04 - Muller (EPA16)	
	PM10 24 Hour Result (ug/m <sup>3</sup> )	YTD Average	PM10 24 Hour Result (ug/m <sup>3</sup> )	YTD Average	PM10 24 Hour Result (ug/m <sup>3</sup> )	YTD Average	PM10 24 Hour Result (ug/m <sup>3</sup> )	YTD Average
01/09/2020	21.6	20.73	19.7	20.46	18.1	16.17	38.1	20.58
02/09/2020	30.0	20.76	29.7	20.49	12.0	16.15	21.4	20.58
03/09/2020	42.5	20.85	41.0	20.58	14.8	16.15	20.0	20.58
04/09/2020	33.6	20.90	29.6	20.61	13.4	16.13	18.5	20.57
05/09/2020	11.1	20.86	7.3	20.56	8.2	16.10	13.3	20.54
06/09/2020	22.3	20.87	16.9	20.55	21.0	16.12	35.3	20.60
07/09/2020	18.0	20.86	12.7	20.51	12.7	16.11	24.4	20.62
08/09/2020	21.7	20.86	18.4	20.51	11.0	16.09	17.8	20.61
09/09/2020	15.5	20.84	10.5	20.47	8.6	16.06	16.3	20.59
10/09/2020	15.8	20.57	8.20	20.42	13.1	20.81	2.38	16.00
11/09/2020	17.5	20.56	7.70	20.37	14.8	20.79	1.90	15.95
12/09/2020	7.8	20.51	7.80	20.32	11	20.75	1.28	15.89
13/09/2020	8.5	20.46	14.20	20.30	27	20.77	2.87	15.84
14/09/2020	16.3	20.44	20.00	20.29	20.5	20.77	3.21	15.79
15/09/2020	30.2	20.48	18.50	20.29	20.9	20.77	5.96	15.75
16/09/2020	12.4	20.45	16.20	20.27	19.8	20.77	4.08	15.70
17/09/2020	NaN	20.45	19.00	20.27	12.3	20.74	5.30	15.66
18/09/2020	19.4	20.45	17.10	20.26	19.5	20.73	5.43	15.62
19/09/2020	29.7	20.48	16.50	20.24	28.2	20.76	7.98	15.59
20/09/2020	13.5	20.46	7.50	20.19	11.4	20.72	3.75	15.55
21/09/2020	7.1	20.40	3.02	20.13	10.2	20.68	3.47	15.50
22/09/2020	12.5	20.37	15.90	20.11	18.9	20.68	NaN	15.50
23/09/2020	12.7	20.35	15.00	20.09	20.4	20.68	1.86	15.45
24/09/2020	6.1	20.29	10.40	20.06	12.8	20.65	0.84	15.39
25/09/2020	9.3	20.25	13.25	20.03	21.9	20.65	0.88	15.34
26/09/2020	4.9	20.19	0.00	19.90	10.6	20.61	0.39	15.28
27/09/2020	13.5	20.17	0.00	19.85	15.1	20.59	3.05	15.23
28/09/2020	24.8	20.18	1.05	19.81	19.4	20.59	3.82	15.19
29/09/2020	20.8	20.19	24.30	19.83	20.4	20.59	4.12	15.15
30/09/2020	12.9	20.16	15.80	19.82	17.8	20.58	2.84	15.10

\*NaN due to power outage >75% of data collection period

**Blast Monitoring**

**Monitoring Frequency: Every blast**

**Airblast Overpressure Limit: 120 dBL**  
**115 dBL (5% of blast each year)**

**Ground Vibration Limit: 10mm/s**  
**5mm/s (5% of blast each year)**

**Date sampled: Continuous**

**Date obtained: Continuous**

**Table 5 - WCPL Blast Monitoring Results**

Date & Time	ID	BM02 – Kelly (EPA10)		BM05 – Muller (EPA11)		BM07 – Thelander (EPA12)	
		dBL	mm/sec	dBL	mm/sec	dBL	mm/sec
Fri/04/Sept/2020 1203hrs	WMA_513_1_2_part2	93.9	0.12	97.6	0.27	95.0	0.26
Tues/08/Sept/2020 1006hrs	WRA_511_2a	91.0	0.08	96.7	0.11	92.7	0.08
Thu/17/Sept/2020 1204hrs	WTA_500_8_part1 & WRC_518	88.4	0.25	95.3	0.67	92.4	0.27
Fri/25/Sep/2020 1157hrs	WTA_501_3a	107.7	0.07	103.7	0.12	100.6	0.07

**Refer to Annual Blasting Report for Annual compliance limits**

**Meteorological Monitoring**

Monitoring Frequency: Continuous

Sampling Method: Site Meteorological Station EPA17

Limits: Nil

Date sampled: continuous

Date obtained: continuous

Table 6 - 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
01/09/2020	14.1	7.4	19.4	14.2	8.7	19.1	62.1	39.4	90.8	205.9	1071.3	0	1.4	0.2	4.1	124	20.1	82.2	6.7
02/09/2020	13.6	2.7	24.1	14.3	3.4	24.1	72.8	35.8	100	197.2	831.4	0	1.1	0	4.8	299	26.1	73.6	8.0
03/09/2020	19	7.2	27.7	20.2	9.1	27.4	60.7	37	100	226.1	785.7	0	2.1	0.1	6.1	314	24.8	101.9	6.2
04/09/2020	22.3	15.8	27.8	22.6	16.1	27.4	48.9	34.5	97.2	164.2	969.1	4.2	3.1	0.3	5.6	296	19.9	76.4	7.4
05/09/2020	17.6	10	24.3	18	10.8	23.8	67	29.8	99.9	256.3	974.4	1.6	1	0.4	4.1	295	29.4	81.7	7.7
06/09/2020	14.5	6.8	20.7	14.8	7.2	20.3	75	54	100	161.1	1006	0	1.7	0.1	4.8	116	20.6	72.6	7
07/09/2020	15.6	8.2	22.9	16.1	9.9	22.6	69.3	36.8	100	257.4	882.1	0	1.2	0.1	4	122	19.9	69.4	4.2
08/09/2020	15.4	4.8	25.8	16	5.8	25.6	71.8	33.8	100	249.8	895.5	0	0.7	0	4	326	23.8	90.6	5.6
09/09/2020	13.3	9.6	17.5	13.6	10.2	17.4	93.1	78.2	100	40.8	355.5	11.4	1.1	0.1	3	157	21.3	88.5	10
10/09/2020	13.6	11.5	18.1	13.6	11.6	17.8	78.7	49.8	100	133.6	827.8	3.4	2.2	0.7	4.7	146	16.3	25.4	8.1
11/09/2020	14.3	10	19.2	14.6	10.7	18.9	77.8	56.3	99.9	173.7	760.4	0	1.9	0.5	4	123	16.20	46.9	5.5
12/09/2020	13.3	4.9	22.8	13.8	5.8	22.4	76.2	35.6	100	272	920.5	0.2	0.8	0.1	3.3	317	21.8	64.9	6.5
13/09/2020	15.1	4.5	24.2	15.7	5.7	23.9	68.5	33.7	100	215	944.6	0	1.2	0.1	5.6	302	27.1	102.2	4.2
14/09/2020	16.9	7.7	26.5	17.3	8.4	26.3	70.7	33.5	100	245.2	932.1	0	0.4	0.1	5.7	67	27.3	101.6	7.8
15/09/2020	17.9	12.4	24.7	18.1	13.3	24.3	76.8	46.5	97.5	191.2	1076.2	0	0.8	0.1	3.6	98	24.2	98.5	7
16/09/2020	17.9	8.1	27.1	18.4	8.5	26.7	71	37.6	100	258.2	911.9	0	1.4	0.1	5.1	306	23.5	100.3	6.8
17/09/2020	19.4	8.7	29.1	19.8	9.5	28.8	65.4	32.1	100	270.3	911.3	0	0.8	0.1	5.3	274	25.2	81	6
18/09/2020	17.4	15.3	19.4	17.4	15.4	19.2	74.5	68.6	86.9	83.6	459.1	0	2	0.7	4.7	138	18.0	29.2	11.4
19/09/2020	20.1	15.8	25.6	20.1	15.9	25.3	71.3	43	95.5	196.7	976.7	0	1.6	0.8	4.5	129	19.7	60.9	7.9
20/09/2020	16.7	14.2	19.8	16.8	14.7	19.5	93.6	74	100	80.6	709.3	13.8	0.2	0.1	2.7	245	24.4	83.3	5.7
21/09/2020	19.6	12.4	29.7	19.8	12.6	29.5	81.2	44.6	100	210.6	990.4	3.4	1.2	0.1	5.5	324	23.3	70.3	8.8
22/09/2020	21.2	16.8	26.2	21.4	17.3	25.9	56.4	24	97.1	293	1010.5	0.2	3.4	0.7	6.7	302	19.6	65.1	11.2
23/09/2020	17.8	11.6	23.2	18.1	13.3	22.7	46.2	28.4	75.6	297.3	997	0	3.8	0.2	6.8	303	19.2	79.8	10.9
24/09/2020	14.8	7	21.2	15.2	8.4	20.5	54.2	28.5	89	286.2	1090.8	0	2.6	0.2	6	300	22.3	69.7	11.9
25/09/2020	13.3	3.5	23.6	13.6	4.2	23.3	62.8	25	100	234.7	1030.5	1.8	3.1	0	8.9	295	22.8	100.7	7.5
26/09/2020	11.9	7.2	17.3	11.8	7.3	16.9	54.4	31.8	75.5	281.4	1032.6	0.2	4.3	1.7	8.1	290	18.4	30.1	12.4
27/09/2020	13.3	8.2	19.2	13.3	8.4	18.8	57.5	35.8	74.9	242.6	1115.7	0	1.1	0.7	5.7	324	20.1	80.5	6.5
28/09/2020	14.1	7.5	21	14.3	8.4	20.4	61.1	29.6	96.8	293.4	1220.7	0	0.6	0.1	3.1	121	25.7	87.5	5.3
29/09/2020	14.1	5.4	22.8	14.3	6.9	21.1	65.9	34.4	99.2	315.7	1123	0.4	1.3	0.2	5	92	23.7	72.2	5.5
30/09/2020	14	7.1	20	14.3	7.7	19.5	75.6	51.4	100	125.8	698.9	0	1.3	0.1	5.3	308	22.9	87.9	6.5
	16.1	2.7	29.7	16.4	3.4	29.5	68.7	24	100	215.3	1220.7	40.6	1.6	0	8.9	228	22.3	102.2	4.2



