

**WAMBO COAL
ENVIRONMENTAL REPORTING
1 JANUARY – 31 JANUARY 2018**

13 February 2018

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

Monitoring Frequency: Once per month
 Sampling Method: Grab sample
 Limits: Nil

Table 1 - WCPL Surface and Mine Water Dam Results

Site	Date	pH	EC ($\mu\text{S}/\text{cm}$)	TSS (mg/L)	Comments
SW01	30 January	7.84	913	6	
SW02	30 January				Pool
SW03	30 January	7.87	2600	17	
SW04	30 January				Dry
SW05	30 January				Dry
SW06	30 January				Pool
SW07	30 January				Dry
SW08	30 January				Dry
SW14	30 January	8.4	525	5	
SW15	30 January	8.85	9200	170	
SW27	30 January				Pool
SW31	30 January	9.08	9920	415	
SW32a	30 January				Pool
SW38	30 January	9.09	9570	745	
SW39	30 January				Dry
SW40	30 January				Pool

Monitoring Frequency: Once per month
Sampling Method: AM19
Limits: 4g / m² / month EPA Guideline

Date sampled: 15 January 2018
Date obtained: 24 January 2018
Date published: 13 February 2018

Table 2 - WCPL Depositional Dust Gauges

Site	Date	Ash (g/m ²)	Total Insoluble Matter (g/m ²)	AR/IS Ratio	Comment
D11	15 January	2.6	4.9	53.06	
D19	15 January	4.1	6.1	88.93	
D21	15 January	3.1	4.3	72.09	
D22	15 January	2.7	3.3	81.81	

Monitoring Frequency: Continuous

Sampling Method: AM22

Limits: Nil

Date sampled: Dust readings recorded daily

Date obtained: The next day for the preceding day's result

Date published: 1 February 2018

Table 3 - WCPL PM10 Results

Date of Run	PM01 - Coralie (Sentinex 19)		PM02 - Wambo Road (Caban) (Sentinex 20)		PM03 - Thelander (Sentinex 21)		PM04 - Muller (Sentinex 22)	
	PM10 24 Hour Result (ug/m ³)	YTD Average	PM10 24 Hour Result (ug/m ³)	YTD Average	PM10 24 Hour Result (ug/m ³)	YTD Average	PM10 24 Hour Result (ug/m ³)	YTD Average
1 January	36.3	36.30	25.6	25.60	NaN*	NaN*	23.5	23.50
2 January	28.1	32.20	21.9	23.75	NaN*	NaN*	23.4	23.45
3 January	24.8	29.73	18.5	22.00	14.5468	14.55	18.1	21.67
4 January	29.6	29.70	25.2	22.80	24.5	19.52	27.1	23.03
5 January	31.4	30.04	27.9	23.82	22.4	20.48	32.1	24.84
6 January	41.5	31.95	31	25.02	22.7	21.04	34	26.37
7 January	26.6	31.19	30.4	25.79	22.4	21.31	26.7	26.41
8 January	45.2	32.94	37.5	27.25	24.9033	21.91	34.9	27.48
9 January	28.9	32.49	22.8	26.76	17.8	21.32	22	26.87
10 January	32.7	32.51	22	26.28	24.2	21.68	24.6	26.64
11 January	42.1	33.38	29.4	26.56	32.2	22.85	33.9	27.30
12 January	34.1282	33.44	30.5	26.89	25.4	23.11	33.2	27.79
13 January	12.4	31.83	19.2	26.30	18.2	22.66	19.2	27.13
14 January	11.7	30.39	12.6	25.32	8.4	21.47	19.6	26.59
15 January	21.1	29.77	15.3	24.65	12.3	20.77	17.9	26.01
16 January	31.7	29.89	25.2	24.69	24.5	21.03	32.7	26.43
17 January	34.4	30.15	28.1	24.89	28.5	21.53	30.1	26.65
18 January	33.2	30.32	40.7	25.77	28.2	21.95	51.2	28.01
19 January	60.5	31.91	36.7	26.34	39.8	23.00	49.5	29.14
20 January	45.3	32.58	27.1	26.38	32	23.50	47.3	30.05
21 January	40.7	32.97	24.6	26.30	26.6	23.66	32	30.14
22 January	37.5	33.17	28.2	26.38	21	23.53	43.2	30.74
23 January	42.1	33.56	42.7	27.09	31.4	23.90	55	31.79
24 January	46.4	34.10	44.1	27.80	35.8	24.44	48.8	32.50
25 January	32.8	34.05	27.9	27.80	26.8	24.55	30.6	32.42
26 January	36.4	34.14	29.9	27.88	31.9	24.85	37	32.60
27 January	40.1	34.36	19.3	27.57	21	24.70	32.3	32.59
28 January	34.7	34.37	18.9	27.26	17.9	24.44	26.7	32.38
29 January	53.6	35.03	25.6	27.20	25.3	24.47	35.1	32.47
30 January	38.6	35.15	34.9	27.46	25.6	24.51	36.9	32.62
31 January	15.5	34.52	15.8	27.08	11.8	24.07	31.6	32.59

* No data due to an intermittent fault with the UPS rendering the TEOM in operable.

Monitoring Frequency: Every blast
 Airblast Overpressure Limit: 120 dBL
 Ground Vibration Limit: 10mm/s

Date sampled: After blast event
 Date obtained: 6, 13, 18, 19 and 22 January 2018
 Date published: 13 February 2018

Table 4 - WCPL Blast Monitoring Results

Date & Time	ID	BM02 - Kelly		BM05 - Muller		BM07 - Thelander	
		dBL	mm/sec	dBL	mm/sec	dBL	mm/sec
2018-01-06 11:59:40	Montrose RCA_220	94.7	0.03	103.2	0.18	100.5	0.20
2018-01-13 13:05:26	M_27RCA_220	107.8	0.20	103.9	0.31	104.0	0.23
2018-01-18 10:16:53	M_27RCA_222	97.0	0.14	111.2	0.22	102.4	0.19
2018-01-19 10:21:22	HD_1WWA_225	100.8	0.11	109.1	0.54	101.8	0.38
2018-01-22 14:38:23	M_27WMA_226	91.9	0.08	103.8	0.96	97.9	0.79

Monitoring Frequency: Continuous
 Sampling Method: Site Meteorological Station
 Limits: Nil

Date sampled: Weather readings recorded daily
 Date obtained: 1 February 2018
 Date published: 13 February 2018

Table 5 - WCPL Meteorology

Date	Temperature (2m)			Temperature (10m)			Humidity			Solar Radiation		RAIN mm	Wind Speed		
	Min	Average	Max	Min	Average	Max	Min	Average	Max	Average	Max		Min	Average	Max
1 January	19.2	26.3	35.4	19.8	26.2	35	24.8	62.7	93.1	299.7	1209.1	0	0.1	1.6	7.6
2 January	20.6	25	31.6	20.9	24.8	30.4	40.6	68.7	89.5	303.8	1232.1	2.6	0.7	2.5	9.3
3 January	18.1	22.7	27.5	18.7	22.6	26.6	48.1	70.8	98.4	245.5	1328.6	0	0	2.8	6.8
4 January	19.2	23	28.6	19.3	22.7	27.9	39.9	59.6	79.9	278.2	1343.4	0	0.3	1.8	6.3
5 January	13.6	24.5	34.6	14.6	24.4	34	18.5	55.6	94.5	371.6	1149.5	0	0.2	1	4.5
6 January	16.9	29.7	41.4	18.3	29.7	40.8	14.6	46.8	86.8	363.2	1101.1	0	0.2	0.8	5.7
7 January	20.2	33.4	43.8	21.3	33.8	43	15.4	37.7	79.1	356.7	1086.2	0	0.1	2.1	6.8
8 January	23.7	30.5	42	23.6	30.4	41.1	19.6	51.1	80.1	282.1	1109.2	2	0.1	0.7	7.5
9 January	23.5	28.2	35.6	23.6	28.2	35.5	35.1	60.7	92.2	199	1170.2	1.4	0.2	1.3	10.6
10 January	20.9	22.4	24.8	20.8	22.2	24.4	63.2	72.5	85	96.9	479.8	0	1.2	2.8	5.2
11 January	20.8	24.3	29.1	20.7	24.1	28.7	51.4	67.2	79.2	190.1	1207.9	0	0.4	1.8	3.9
12 January	19	27.3	39.4	19.5	27.3	38.4	27.4	69.6	94	275.8	1124.5	1.2	0.1	0.5	3.9
13 January	21.9	31	37.6	22	31.1	36.8	28.5	48.2	93.2	234	1089.1	0	0.2	2.9	7.7
14 January	17.8	22.1	26.6	18.6	22	25.7	24	48.7	96.2	363.2	1292	0	0.2	3.1	6.4
15 January	15.6	21.7	28.4	16	21.4	27.5	25.4	46.4	67.2	316.1	1254.3	0	0.2	2.1	7.1
16 January	17.4	22.1	26.6	17.5	21.7	25.6	31.8	45.2	64.9	361.2	1280.4	0	1.3	3.3	5.6
17 January	11.5	20.9	30.4	12.5	20.8	29.4	22.9	55.2	91.2	375.7	1119.4	0	0.1	1.7	6.1
18 January	10	22.7	34.7	11.1	22.8	33.6	14.5	47.4	93.9	388.2	1141	0	0	1	6.2
19 January	10.6	25.2	39.4	12.1	25.5	38.5	12.9	39	78.8	382.6	1127.2	0	0.1	1.5	7.8
20 January	9.9	24.4	38.4	11.2	24.6	37.5	7	42.1	77.9	380.4	1146.3	0	0.2	1.8	7
21 January	14	26.7	37.6	15.3	26.6	36.5	19.8	54.2	92.5	367.7	1155.7	0	0	1.7	5.3
22 January	16.5	30.1	42.5	17.4	30.1	41.8	12.6	47.1	92.5	337.1	1139.3	0	0.1	0.4	6.8
23 January	19.1	29	38.8	20	29.2	37.9	16.1	44.8	71.3	229.1	1058.7	0	0	0.8	4.9
24 January	20.9	29.3	39.6	21.9	29.2	38.8	17.6	52.5	79.6	295.5	1142	0	0.1	1.4	5.8
25 January	20.8	27.5	35.7	20.9	27.2	34.8	32.7	63.2	88.8	221.4	1189.8	0	0.3	1.7	5.1
26 January	23.3	27.6	36.4	23.2	27.3	35.6	33.6	66	85	250.2	1068.8	0	0.1	1.1	5.4
27 January	23.5	28.7	36.6	23.3	28.2	35.7	29.8	62.8	87.2	260.3	1081.6	0	0.2	1.9	6.2
28 January	23.8	28.1	34.5	23.6	27.6	33.3	35.3	62.7	79.4	281.7	1143.3	0	1.1	2.9	7.3
29 January	21.6	26.9	33.2	21.7	26.4	32.1	35.4	61.8	88.4	303.3	1172	0	0.7	2.9	6.6
30 January	18.3	28	37.5	18.9	27.6	36.6	20.1	54.9	91.6	355.7	1065.8	0	0	0.7	6.2
31 January	19.5	21.8	27.8	19.2	21.4	27.5	56.1	68.2	79.6	59.5	307	0	1.6	3	5.4
MONTH	9.9	26.1	43.8	11.1	26.0	43	7	55.9	98.4	291.1	1343.4	7.2	0	1.7	10.6

