

TARRAWONGA COAL MINE – MONTHLY MONITORING SUMMARY

Site Information

EPL No: 12365

EPA Website Link: <http://www.epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=55113&SYSUID=1&LICID=12365>

Licensee: Tarrawonga Coal Pty Ltd

Licensee Address: Tarrawonga Coal Mine, 469 Goonbri Road, BOGGABRI NSW 2382

EPL Monitoring Points: See Figure 1 below

Sampling Period: March 2024

Obtained Date: 15/04/2024

Publication Date: 16/04/2024

Table 1 - No Pollutant Limits Apply

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Samples for the Month	Date Sampled	Date of Max. Value Obtained	Min Value	Mean Value	Median Value	Max or Only Value	Comments
5	TSS	mg/L	Upon discharge	-	-	-	-	-	-	-	-
	Conductivity	µS/cm		-	-	-	-	-	-	-	
	Oil & Grease	mg/L		-	-	-	-	-	-	-	
	pH	pH		-	-	-	-	-	-	-	
6	TSS	mg/L	Upon discharge	-	-	-	-	-	-	-	-
	Conductivity	µS/cm		-	-	-	-	-	-	-	
	Oil & Grease	mg/L		-	-	-	-	-	-	-	
	pH	pH		-	-	-	-	-	-	-	

Table 2 - Pollutant Limits Apply

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Samples for the Month	Date Sampled	Date of Max. Value Obtained	Min Value	Max or Only Value	100%ile Limit	Exceed-ance (Yes/No)	Comment/s
1	TSS	mg/L	Upon discharge	-	-	-	-	-	-	-	-
	Conductivity	µS/cm		-	-	-	-	-	-	-	
	Oil & Grease	mg/L		-	-	-	-	-	-	-	
	pH	pH		-	-	-	-	-	-	-	
2	TSS	mg/L	Upon discharge	-	-	-	-	-	-	-	-
	Conductivity	µS/cm		-	-	-	-	-	-	-	
	Oil & Grease	mg/L		-	-	-	-	-	-	-	
	pH	pH		-	-	-	-	-	-	-	
3	TSS	mg/L	Upon discharge	-	-	-	-	-	-	-	-
	Conductivity	µS/cm		-	-	-	-	-	-	-	
	Oil & Grease	mg/L		-	-	-	-	-	-	-	
	pH	pH		-	-	-	-	-	-	-	
24	TSS	mg/L	Upon discharge	-	-	-	-	-	-	-	-
	Conductivity	µS/cm		-	-	-	-	-	-	-	
	Oil & Grease	mg/L		-	-	-	-	-	-	-	

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Samples for the Month	Date Sampled	Date of Max. Value Obtained	Min Value	Max or Only Value	100%ile Limit	Exceed-ance (Yes/ No)	Comment/s
	pH	pH		-	-	-	-	-	-	-	
26	TSS	mg/L	Upon discharge	-	-	-	-	-	-	-	-
	Conductivity	µS/cm		-	-	-	-	-	-	-	
	Oil & Grease	mg/L		-	-	-	-	-	-	-	
	pH	pH		-	-	-	-	-	-	-	
27	TSS	mg/L	Upon discharge	-	-	-	-	-	-	-	-
	Conductivity	µS/cm		-	-	-	-	-	-	-	
	Oil & Grease	mg/L		-	-	-	-	-	-	-	
	pH	pH		-	-	-	-	-	-	-	

Table 3 – Monitoring (Quarterly & 6 Monthly – No Limits apply)

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Samples for the Period	Date Sampled	Date of Max. Value Obtained	Min Value	Mean Value	Median Value	Max or Only Value
9	Conductivity	µS/cm	6 monthly – (Mar- Sep)	1	12/03/2024	12/03/2024	-	-	-	3,360
	Lead	mg/L		1	12/03/2024	12/03/2024	-	-	-	<0.001
	pH	pH		1	12/03/2024	12/03/2024	-	-	-	7.52
	Standing Water Level	metres		1	12/03/2024	12/03/2024	-	-	-	6.33
10	Conductivity	µS/cm	6 monthly – (Mar- Sep)	1	12/03/2024	12/03/2024	-	-	-	714
	Lead	mg/L		1	12/03/2024	12/03/2024	-	-	-	<0.001
	pH	pH		1	12/03/2024	12/03/2024	-	-	-	7.16
	Standing Water Level	metres		1	12/03/2024	12/03/2024	-	-	-	4.6
12	Conductivity	µS/cm	6 monthly – (Mar- Sep)	1	12/03/2024	12/03/2024	-	-	-	3,150
	Lead	mg/L		1	12/03/2024	12/03/2024	-	-	-	<0.001
	pH	pH		1	12/03/2024	12/03/2024	-	-	-	7.81
	Standing Water Level	metres		1	12/03/2024	12/03/2024	-	-	-	8.89
13	Conductivity	µS/cm	Quarterly - (Feb, May, Aug, Nov)	-	-	-	-	-	-	-
	Oil & Grease	mg/L		-	-	-	-	-	-	
	pH	pH		-	-	-	-	-	-	
	TSS	mg/L		-	-	-	-	-	-	

Table 4 – Quarterly Attended Noise Monitoring

(Noise Limits Apply -35dB LAeq(15min) -Day, Evening and Night;45dB LA1(1min) -Night)

Table 1				
TCM Operational Noise Monitoring Results – 11 March 2024 (Evening)				
Location	Time	Total dB(A), Leq (15 min)	Wind speed / direction / PSC¹	Identified Noise Sources
Matong – TN2	6:05pm	34	3.9 / 131 / D	Birds (33), insects (26), TCM (<20)
Barbers Lagoon – TN3	7:37pm	52	2.7 / 109 / E	Traffic (52), insects (30), birds (29), TCM (25)¹
Bungalow – TN4	6:55pm	44	3.8 / 117 / E	Insects (41), birds (39), traffic (36), TCM (<20)

1. Coal trucks on private haul road

Table 2				
TCM Operational Noise Monitoring Results – 11-12 March 2024 (Night)				
Location	Time	Total dB(A), Leq (15 min)	Wind speed / direction / PSC	Identified Noise Sources
Matong – TN2	1:05am	32	2.6 / 109 / E	Insects (32), TCM (<20)
Barbers Lagoon – TN3	10:32pm	33	1.6 / 148 / E	Insects (30), TCM (30)
Bungalow – TN4	11:45pm	41	2.9 / 107 / E	Dog (40), insects (34), traffic (23), TCM (<20)

Table 3				
TCM Operational Noise Monitoring Results – 12 March 2024 (Day)				
Location	Time	Total dB(A), Leq (15 min)	Wind speed / direction / PSC	Identified Noise Sources
Matong – TN2	10:40am	34	2.4 / 222 / A	Birds (33), traffic (26), TCM (20)
Barbers Lagoon – TN3	2:17pm	53	3.8 / 179 / B	Traffic (53), birds (38), TCM (<20)
Bungalow – TN4	12:34pm	40	3.9 / 178 / B	Traffic (37), birds (37), TCM (<20)

Table 4				
TCM Operational Noise Monitoring Results – 12 March 2024 (Evening)				
Location	Time	Total dB(A), Leq (15 min)	Wind speed / direction / PSC	Identified Noise Sources
Matong – TN2	8:00pm	39	1.5 / 063 / E	Insects (39), TCM (<20)
Barbers Lagoon – TN3	9:27pm	33	1.1 / 061 / E	Insects (31), traffic (29), TCM (<20)
Bungalow – TN4	8:46pm	35	1.2 / 063 / E	Traffic (33), insects (31), TCM (<20)

Table 5				
TCM Operational Noise Monitoring Results – 12-13 March 2024 (Night)				
Location	Time	Total dB(A), Leq (15 min)	Wind speed / direction / PSC	Identified Noise Sources
Matong – TN2	12:21am	37	1.7 / 103 / E	Insects (37), TCM (<20)
Barbers Lagoon – TN3	1:40am	26	2.0 / 108 / E	Insects (26), TCM (<20)
Bungalow – TN4	11:02pm	38	1.8 / 079 / E	Traffic (35), insects (24), TCM (26)

Table 6				
TCM Operational Noise Monitoring Results – 13 March 2024 (Day)				
Location	Time	Total dB(A), Leq (15 min)	Wind speed / direction / PSC	Identified Noise Sources
Matong – TN2	10:32am	46	2.4 / 237 / B	Traffic (45), birds (40), insects (29), TCM (<20)
Barbers Lagoon – TN3	2:01pm	58	4.1 / 195 / B	Traffic (58), birds (33), insects (22), TCM (<20)
Bungalow – TN4	12:19pm	44	2.7 / 240 / B	Traffic (43), birds (38), TCM (<20)

Table 7				
TCM Operational Noise Monitoring Results – 13 March 2024 (Evening)				
Location	Time	Total dB(A), Leq (15 min)	Wind speed / direction / PSC	Identified Noise Sources
Matong – TN2	6:46pm	35	1.3 / 188 / E	Birds (35), insects (25), TCM (<20)
Barbers Lagoon – TN3	8:17pm	31	2.7 / 038 / F	Insects (31), TCM (<20)
Bungalow – TN4	7:35pm	29	1.2 / 057 / E	Insects (26), traffic (26), TCM (<20)

Table 8				
TCM Operational Noise Monitoring Results – 13-14 March 2024 (Night)				
Location	Time	Total dB(A), Leq (15 min)	Wind speed / direction / PSC	Identified Noise Sources
Matong – TN2	11:30pm	29	1.1 / 095 / E	Insects (29), TCM (<20)
Barbers Lagoon – TN3	10:11pm	58	1.7 / 068 / E	Traffic (58), insects (29), TCM (<20)
Bungalow – TN4	12:50am	30	1.2 / 133 / E	Insects (30), TCM (<20)

Table 9				
TCM Operational Noise Monitoring Results – 14 March 2024 (Day)				
Location	Time	Total dB(A), Leq (15 min)	Wind speed / direction / PSC	Identified Noise Sources
Matong – TN2	9:00am	62	1.9 / 244 / A	Birds (29), insects (29), TCM (<20)
Barbers Lagoon – TN3	12:20pm	56	2.4 / 268 / B	Traffic (56), birds (26), TCM (<20)
Bungalow – TN4	10:38am	36	2.3 / 259 / A	Traffic (35), birds (28), TCM (24)

Table 10				
TCM Operational Noise Monitoring Results – 14 March 2024 (Evening)				
Location	Time	Total dB(A), Leq (15 min)	Wind speed / direction / PSC	Identified Noise Sources
Matong – TN2	8:47pm	38	1.6 / 067 / E	Traffic (38), TCM (21)
Barbers Lagoon – TN3	6:34pm	56	0.7 / 216 / F	Traffic (56), birds (30), TCM (<20)
Bungalow – TN4	7:27pm	41	1.2 / 072 / E	Traffic (40), birds (33), TCM (<20)

Table 11				
TCM Operational Noise Monitoring Results – 14-15 March 2024 (Night)				
Location	Time	Total dB(A), Leq (15 min)	Wind speed / direction / PSC	Identified Noise Sources
Matong – TN2	1:05am	32	2.0 / 129 / E	Insects (32), TCM (<20)
Barbers Lagoon – TN3	11:50pm	31	1.6 / 050 / E	Insects (31), TCM (20)
Bungalow – TN4	10:37pm	41	1.6 / 058 / E	Traffic (40), insects (33), TCM (31)

Table 12				
TCM Operational Noise Monitoring Results – 15 March 2024 (Day)				
Location	Time	Total dB(A), Leq (15 min)	Wind speed / direction / PSC	Identified Noise Sources
Matong – TN2	9:34am	36	4.6 / 151 / C	Traffic (34), birds (31), TCM (<20)
Barbers Lagoon – TN3	1:05pm	62	5.2 / 136 / C	Traffic (62), wind in trees (33), TCM (<20)
Bungalow – TN4	11:22am	57	4.8 / 147 / C	Traffic (57), wind in trees (40), birds (38), TCM (<20)

The results in Tables 14 to 17 show that the Tarrawonga Coal Mine measured L1 (1 min) noise levels did not exceed the sleep disturbance criterion during any of the night-time monitoring periods

Table 5 – Monthly Monitoring (Blasts – Limits Apply)

Location	Parameter	Units of Measure	Frequency	No. of Blasts for the Month	Average Value	Max Value	100%ile Limit	(Potential) Non-compliance /breach	Date of Max. Value Obtained
Coomalgah (TB2)	Blast Noise	dB (Lin Peak)	Every Blast	7	99.53	110.1	120	Nil	23/03/2024
	Blast Vibration	mm/s	Every Blast	7	0.23	0.47	10	Nil	05/03/2024

Table 6- Monthly Monitoring (Dust PM10 – No Limits apply)

Location	No. of samples required by licence	Lowest sample value	Mean of sample	Highest sample value
“Flixton” property* TEOM (µg/m ³)	Continuous	0	14.9	34.7

**Mine owned property – no limit apply*

Figure 1 – EPL 12365 Monitoring Locations

