

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: June 2023

Obtained Date: 12/07/2023

Publication Date: 12/07/2023

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		-	-	-	-	-	-	-	
26	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		-	-	-	-	-	-	-	
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)	-	-	-	-	-	-	-
	Lead	mg/L		-	-	-	-	-	-	-
	pH	pH		-	-	-	-	-	-	-
	Standing Water Level	metres		-	-	-	-	-	-	-
10	Conductivity	µS/cm	6 monthly – (Mar- Sep)	-	-	-	-	-	-	-
	Lead	mg/L		-	-	-	-	-	-	-
	pH	pH		-	-	-	-	-	-	-
	Standing Water Level	metres		-	-	-	-	-	-	-
12	Conductivity	µS/cm	6 monthly – (Mar- Sep)	-	-	-	-	-	-	-
	Lead	mg/L		-	-	-	-	-	-	-
	pH	pH		-	-	-	-	-	-	-
	Standing Water Level	metres		-	-	-	-	-	-	-
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 – 21 June 2023 (Evening)				
Location	Time	Total dB(A), Leq (15 min)	Wind speed / direction / PSC¹	Identified Noise Sources
Matong – TN2	6:01pm	33	1.3 / 048 / F	Cows (32), car (27), TCM (<20)
Barbers Lagoon – TN3	6:49pm	38	2.4 / 057 / E	Traffic (38), dog (28), TCM (<20)
Bungalow – TN4	7:37pm	45	2.5 / 048 / F	Traffic (45), dogs (31), TCM (<20)
Table 2				
TCM Operational Noise Monitoring Results – 21 – 22 June 2023 (Night)				
Location	Time	Total dB(A), Leq (15 min)	Wind speed / direction / PSC	Identified Noise Sources
Matong – TN2	10:07pm	33	2.2 / 069 / D	Cows (33), car (21), TCM (<20)
Barbers Lagoon – TN3	12:39am	28	1.7 / 052 / E	Car (28), TCM (<20)
Bungalow – TN4	11:28pm	26	0.9 / 258 / E	Dogs (26), TCM (<20)
Table 3				
TCM Operational Noise Monitoring Results – 22 June 2023 (Day)				
Location	Time	Total dB(A), Leq (15 min)	Wind speed / direction / PSC	Identified Noise Sources
Matong – TN2	11:19am	45	1.0 / 268 / A	Traffic (45), birds (33), mine (23), TCM (<20)
Barbers Lagoon – TN3	2:51pm	52	0.6 / 008 / A	Industrial (52), TCM (<20)
Bungalow – TN4	1:07pm	43	1.9 / 284 / D	Traffic (42), birds (35), TCM (<20)
Table 4				
TCM Operational Noise Monitoring Results – 22 June 2023 (Evening)				
Location	Time	Total dB(A), Leq (15 min)	Wind speed / direction / PSC	Identified Noise Sources
Matong – TN2	9:24pm	31	2.0 / 247 / F	Birds (31), mine (21), TCM (<20)
Barbers Lagoon – TN3	7:47pm	42	0.7 / 213 / F	Traffic (42), TCM (<20)
Bungalow – TN4	8:31pm	32	0.9 / 331 / D	TCM¹ (32) , traffic (22)

Table 5				
TCM Operational Noise Monitoring Results – 22 – 23 June 2023 (Night)				
Location	Time	Total dB(A), Leq (15 min)	Wind speed / direction / PSC	Identified Noise Sources
Matong – TN2	12:47am	NA ¹	1.6 / 071 / E	NA ¹
Barbers Lagoon – TN3	11:28pm	46	1.2 / 172 / F	Traffic (46), TCM (20)
Bungalow – TN4	10:15pm	31	1.3 / 260 / D	TCM² (28) , traffic (28)
Table 6				
TCM Operational Noise Monitoring Results – 23 June 2023 (Day)				
Location	Time	Total dB(A), Leq (15 min)	Wind speed / direction / PSC	Identified Noise Sources
Matong – TN2	11:31am	41	6.4 / 299 / D	Wind in trees (41), traffic (27), TCM (<20)
Barbers Lagoon – TN3	1:22pm	43	7.1 / 327 / D	Wind in trees (43), TCM (<20)
Bungalow – TN4	3:01pm	47	6.4 / 342 / C	Birds (46), wind in trees (37), TCM (<20)
Table 7				
TCM Operational Noise Monitoring Results – 23 June 2023 (Evening)				
Location	Time	Total dB(A), Leq (15 min)	Wind speed / direction / PSC	Identified Noise Sources
Matong – TN2	9:28pm	48	2.0 / 046 / E	Traffic (48), mine (27), TCM (<20)
Barbers Lagoon – TN3	7:53pm	32	2.7 / 035 / D	Car (32), TCM (<20)
Bungalow – TN4	8:36pm	32	0.5 / 065 / E	Wind in trees (32), TCM (<20)
Table 8				
TCM Operational Noise Monitoring Results – 23 – 24 June 2023 (Night)				
Location	Time	Total dB(A), Leq (15 min)	Wind speed / direction / PSC	Identified Noise Sources
Matong – TN2	12:48am	38	0.8 / 022 / D	Birds (38), TCM (23)
Barbers Lagoon – TN3	10:21pm	37	1.9 / 039 / E	Traffic (35), birds (32), TCM (22)
Bungalow – TN4	11:31pm	46	1.4 / 034 / D	Birds (46), traffic (34), TCM¹ (30)
Table 9				
TCM Operational Noise Monitoring Results – 24 June 2023 (Day)				
Location	Time	Total dB(A), Leq (15 min)	Wind speed / direction / PSC	Identified Noise Sources

Matong – TN2	2:49pm	49	4.1 / 324 / D	Traffic (48), wind in trees (43), birds (24), TCM (<20)
Barbers Lagoon – TN3	11:18am	36	0.9 / 262 / A	Birds (35), wind in trees (27), TCM (<20)
Bungalow – TN4	1:03pm	42	2.3 / 206 / A	Wind in trees (42), birds (30), TCM (<20)
Table 10				
TCM Operational Noise Monitoring Results – 24 June 2023 (Evening)				
Location	Time	Total dB(A), Leq (15 min)	Wind speed / direction / PSC	Identified Noise Sources
Matong – TN2	7:48pm	38	1.7 / 053 / D	Car (38), TCM (<20)
Barbers Lagoon – TN3	9:21pm	22	1.6 / 054 / D	Car (22), TCM (<20)
Bungalow – TN4	8:36pm	37	3.4 / 071 / D	Insects (37), TCM (<20)
Table 11				
TCM Operational Noise Monitoring Results – 24 – 25 June 2023 (Night)				
Location	Time	Total dB(A), Leq (15 min)	Wind speed / direction / PSC	Identified Noise Sources
Matong – TN2	12:47am	26	0.9 / 220 / F	Wind in trees (25), TCM (<20)
Barbers Lagoon – TN3	11:26pm	27	0.4 / 035 / E	Wind in trees (26), TCM (21)
Bungalow – TN4	10:04pm	26	0.6 / 037 / F	Wind in trees (26), TCM (<20)
Table 12				
TCM Operational Noise Monitoring Results – 25 June 2023 (Day)				
Location	Time	Total dB(A), Leq (15 min)	Wind speed / direction / PSC	Identified Noise Sources
Matong – TN2	11:26am	43	1.6 / 339 / A	Traffic (43), mine (26), TCM (<20)
Barbers Lagoon – TN3	8:00am	45	0.4 / 089 / A	Birds (42), traffic (39), helicopter (39), TCM (28)
Bungalow – TN4	9:46am	33	0.2 / 125 / A	Birds (32), traffic (22), TCM¹ (20)

1. Coal trucks on private haul road

Table 13					
TCM Sleep Disturbance Monitoring Results – 21 – 22 June 2023 (Night)					
Location	Time	dB(A) L1 (1 min)¹	dB(A) L1 (1 min)²	L1 Source	Wind speed / direction / PSC
Matong – TN2	10:07pm	42	<20	Cows	2.2 / 069 / D
Barbers Lagoon – TN3	12:39am	48	26	Car	1.7 / 052 / E
Bungalow – TN4	11:28pm	51	<20	Dogs	0.9 / 258 / E
Table 14					
TCM Sleep Disturbance Monitoring Results – 22 – 23 June 2023 (Night)					
Location	Time	dB(A) L1 (1 min)¹	dB(A) L1 (1 min)²	L1 Source	Wind speed / direction / PSC
Matong – TN2	12:47am	NA [*]	NA [*]	NA [*]	1.6 / 071 / E
Barbers Lagoon – TN3	11:28pm	48	20	Car	1.2 / 172 / F
Bungalow – TN4	10:15pm	40	40	Trucks	1.3 / 260 / D
Table 15					
TCM Sleep Disturbance Monitoring Results – 23 – 24 June 2023 (Night)					
Location	Time	dB(A) L1 (1 min)¹	dB(A) L1 (1 min)²	L1 Source	Wind speed / direction / PSC
Matong – TN2	12:48am	51	<20	Birds	0.8 / 022 / D
Barbers Lagoon – TN3	10:21pm	58	27	Car	1.9 / 039 / E
Bungalow – TN4	11:31pm	61	34	Birds	1.4 / 034 / D
Table 16					
TCM Sleep Disturbance Monitoring Results – 24 – 25 June 2023 (Night)					
Location	Time	dB(A) L1 (1 min)¹	dB(A) L1 (1 min)²	L1 Source	Wind speed / direction / PSC
Matong – TN2	12:47am	36	<20	Wind	0.9 / 220 / F
Barbers Lagoon – TN3	11:26pm	37	<20	Wind	0.4 / 035 / E
Bungalow – TN4	10:04pm	37	<20	Wind	0.6 / 037 / F

Table 5 – Monthly Monitoring (Blasts – Limits Apply)

November	Parameter	Units of Measure	Frequency	No. of Blasts for the Month	Average Value	Max Value	100%ile Limit	(Potential) Non-compliance /breach	Date Obtained
Coomalgah	Blast Noise	dB (Lin Peak)	Every Blast	8	96.06	106.30	120	Nil	28-06-23
	Blast Vibration	mm/s	Every Blast	8	0.23	0.52	10	Nil	01-06-23

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
28 "Flixton" property* TEOM ($\mu\text{g}/\text{m}^3$)	Continuous	0.5	11.6	66.2

**Mine owned property – no limit apply*

Figure 1 – EPL 12365 Monitoring Locations

