

## 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:** September 2024

**Obtained Date:** 10/10/2024

**Publication Date:** 14/10/2024

**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	28/09/2024	28/09/2024	-	-	-	3600
	Lead	mg/L		1	28/09/2024	28/09/2024	-	-	-	< 0.0001
	pH	pH		1	28/09/2024	28/09/2024	-	-	-	7.80
	Standing Water Level	metres		1	28/09/2024	28/09/2024	-	-	-	6.28
10	Conductivity	µS/cm	6 monthly – (Mar- Sep)	1	28/09/2024	28/09/2024	-	-	-	859
	Lead	mg/L		1	28/09/2024	28/09/2024	-	-	-	< 0.0001
	pH	pH		1	28/09/2024	28/09/2024	-	-	-	7.10
	Standing Water Level	metres		1	28/09/2024	28/09/2024	-	-	-	6.31
12	Conductivity	µS/cm	6 monthly – (Mar- Sep)	1	28/09/2024	28/09/2024	-	-	-	3150
	Lead	mg/L		1	28/09/2024	28/09/2024	-	-	-	< 0.0001
	pH	pH		1	28/09/2024	28/09/2024	-	-	-	7.65
	Standing Water Level	metres		1	28/09/2024	28/09/2024	-	-	-	6.62
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 )

<b>Table 1</b>				
<b>TCM Operational Noise Monitoring Results – 16 September 2024 (Evening)</b>				
<b>Location</b>	<b>Time</b>	<b>Total dB(A), Leq (15 min)</b>	<b>Wind speed / direction / PSC<sup>1</sup></b>	<b>Identified Noise Sources</b>
Matong – TN2	8:35pm	29	1.3 / 174 / F	Traffic (27), cows (24), TCM (<20)
Barbers Lagoon – TN3	7:06pm	45	0.5 / 286 / E	Traffic (45), TCM (<20)
Bungalow – TN4	7:45pm	41	0.9 / 191 / E	Traffic (41), insects (23), TCM (<20)

1. Coal trucks on private haul road

<b>Table 2</b>				
<b>TCM Operational Noise Monitoring Results – 16-17 September 2024 (Night)</b>				
<b>Location</b>	<b>Time</b>	<b>Total dB(A), Leq (15 min)</b>	<b>Wind speed / direction / PSC</b>	<b>Identified Noise Sources</b>
Matong – TN2	10:00pm	29	1.7 / 061 / E	Cows (28), traffic (21), TCM (<20)
Barbers Lagoon – TN3	11:20pm	27	1.7 / 044 / E	Dogs (27), TCM (<20)
Bungalow – TN4	12:32am	27	1.5 / 046 / E	TCM (27)

<b>Table 3</b>				
<b>TCM Operational Noise Monitoring Results – 17 September 2024 (Day)</b>				
<b>Location</b>	<b>Time</b>	<b>Total dB(A), Leq (15 min)</b>	<b>Wind speed / direction / PSC</b>	<b>Identified Noise Sources</b>
Matong – TN2	2:25pm	35	2.9 / 235 / C	Birds (35), TCM (<20)
Barbers Lagoon – TN3	11:04am	52	2.2 / 235 / B	Traffic (52), birds (32), TCM (<20)
Bungalow – TN4	12:45pm	43	2.5 / 245 / B	Traffic (43), birds (25), TCM (<20)

<b>Table 4</b>				
<b>TCM Operational Noise Monitoring Results – 17 September 2024 (Evening)</b>				
<b>Location</b>	<b>Time</b>	<b>Total dB(A), Leq (15 min)</b>	<b>Wind speed / direction / PSC</b>	<b>Identified Noise Sources</b>
Matong – TN2	9:09pm	29	1.9 / 053 / E	Cows (29), TCM (<20)
Barbers Lagoon – TN3	7:40pm	27	1.8 / 056 / E	Traffic (23), TCM (22), birds (21)
Bungalow – TN4	8:19pm	25	1.5 / 039 / D	Traffic (23), TCM (21)

<b>Table 5</b>				
<b>TCM Operational Noise Monitoring Results – 17-18 September 2024 (Night)</b>				
<b>Location</b>	<b>Time</b>	<b>Total dB(A), Leq (15 min)</b>	<b>Wind speed / direction / PSC</b>	<b>Identified Noise Sources</b>
Matong – TN2	10:00pm	24	2.0 / 052 / E	TCM (24)
Barbers Lagoon – TN3	12:35am	30	2.0 / 040 / E	TCM (27), birds (27)
Bungalow – TN4	11:26pm	47	1.6 / 059 / E	Traffic (47), dogs (23), TCM (<20)

<b>Table 6</b>				
<b>TCM Operational Noise Monitoring Results – 18 September 2024 (Day)</b>				
<b>Location</b>	<b>Time</b>	<b>Total dB(A), Leq (15 min)</b>	<b>Wind speed / direction / PSC</b>	<b>Identified Noise Sources</b>
Matong – TN2	2:19pm	45	4.1 / 293 / C	Traffic (44), birds (38), TCM (<20)
Barbers Lagoon – TN3	10:49am	53	3.5 / 286 / C	Traffic (53), birds (38), insects (23), TCM (<20)
Bungalow – TN4	12:29pm	33	4.2 / 294 / C	Birds (33), TCM (<20)

<b>Table 7</b>				
<b>TCM Operational Noise Monitoring Results – 18 September 2024 (Evening)</b>				
<b>Location</b>	<b>Time</b>	<b>Total dB(A), Leq (15 min)</b>	<b>Wind speed / direction / PSC</b>	<b>Identified Noise Sources</b>
Matong – TN2	8:36pm	23	1.7 / 024 / E	Traffic (23), TCM (<20)
Barbers Lagoon – TN3	7:04pm	26	1.6 / 113 / D	Dogs (24), TCM (22)
Bungalow – TN4	7:45pm	25	2.2 / 035 / E	Insects (25), TCM (<20)

<b>Table 8</b>				
<b>TCM Operational Noise Monitoring Results – 18-19 September 2024 (Night)</b>				
<b>Location</b>	<b>Time</b>	<b>Total dB(A), Leq (15 min)</b>	<b>Wind speed / direction / PSC</b>	<b>Identified Noise Sources</b>
Matong – TN2	10:03pm	24	1.9 / 028 / E	Cows (24), TCM (<20)
Barbers Lagoon – TN3	12:33am	29	1.7 / 038 / E	TCM (27), insects (25)
Bungalow – TN4	11:21pm	22	2.0 / 025 / E	Dogs (22), TCM (<20)

<b>Table 9</b>				
<b>TCM Operational Noise Monitoring Results – 19 September 2024 (Day)</b>				
<b>Location</b>	<b>Time</b>	<b>Total dB(A), Leq (15 min)</b>	<b>Wind speed / direction / PSC</b>	<b>Identified Noise Sources</b>
Matong – TN2	1:34pm	46	6.0 / 307 / C	Traffic (46), birds (35), TCM (<20)
Barbers Lagoon – TN3	10:02am	53	5.0 / 303 / C	Traffic (53), birds (34), TCM (<20)
Bungalow – TN4	11:43am	45	5.8 / 306 / C	Traffic (45), birds (34), TCM (<20)

<b>Table 10</b>				
<b>TCM Operational Noise Monitoring Results – 19 September 2024 (Evening)</b>				
<b>Location</b>	<b>Time</b>	<b>Total dB(A), Leq (15 min)</b>	<b>Wind speed / direction / PSC</b>	<b>Identified Noise Sources</b>
Matong – TN2	8:47pm	23	0.8 / 168 / E	Dogs (23), TCM (<20)
Barbers Lagoon – TN3	7:12pm	23	4.2 / 264 / D	Birds (23), TCM (<20)
Bungalow – TN4	7:54pm	23	1.8 / 297 / E	Birds (23), TCM (<20)

<b>Table 11</b>				
<b>TCM Operational Noise Monitoring Results – 19-20 September 2024 2024 (Night)</b>				
<b>Location</b>	<b>Time</b>	<b>Total dB(A), Leq (15 min)</b>	<b>Wind speed / direction / PSC</b>	<b>Identified Noise Sources</b>
Matong – TN2	10:10pm	22	2.1 / 037 / E	Birds (22), TCM (<20)
Barbers Lagoon – TN3	12:54am	23	1.7 / 045 / E	Insects (23), TCM (<20)
Bungalow – TN4	11:42pm	23	1.4 / 129 / F	Traffic (23), TCM (<20)

<b>Table 12</b>				
<b>TCM Operational Noise Monitoring Results – 20 September 2024 (Day)</b>				
<b>Location</b>	<b>Time</b>	<b>Total dB(A), Leq (15 min)</b>	<b>Wind speed / direction / PSC</b>	<b>Identified Noise Sources</b>
Matong – TN2	9:22am	45	1.4 / 273 / A	Birds (45), traffic (31), TCM (<20)
Barbers Lagoon – TN3	11:18am	42	1.9 / 236 / A	Traffic (40), birds (38), TCM (<20)
Bungalow – TN4	12:59pm	39	2.5 / 250 / B	Birds (39), TCM (<20)

**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	Blast Noise	dB (Lin Peak)	Every Blast	7	95.3	98.8	120	Nil	25/09/24
(TB2)	Blast Vibration	mm/s	Every Blast	7	0.26	0.39	10	Nil	25/09/24

**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 <sup>3</sup> )	Continuous	5.13	18.6	34.7

*\*Mine owned property – no limit apply.*



Figure 1 – EPL 12365 Monitoring Locations

