

Site Information

EPL No.: 12290

EPA Website Link: <u>http://www.epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=31280&SYSUID=1&LICID=12290</u>

Licensee: Werris Creek Coal Pty Limited

Premises: Werris Creek Coal, 1435 Werris Creek Road, WERRIS CREEK NSW 2341

EPL Monitoring Points: See figure at end of document

Sampling Period: SEPTEMBER 2023

Obtained Date: 16/10/2023

Publication Date: 19/10/2023

Table 1 - No Pollutant Limits Apply

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Measurement s for the Month	Date Sampled	Date Obtained	Min Value	Mean Value	Median Value	Max Value
28	PM10	μg/m³	Every 6 days	5	26/09/2023	12/10/2023	4.7	8.6	8.6	12.1
20	Solid Particles	g/m²/month	Continuous	1	18/09/2023	28/09/2023	0.2	0.2	0.2	0.2
29	PM10	μg/m³	Every 6 days	5	26/09/2023	12/10/2023	5.3	14.2	14	24.6
29	Solid Particles	g/m²/month	Continuous	1	18/09/2023	28/09/2023	0.3	0.3	0.3	0.3
30	PM10	μg/m³	Continuous	Continuous	30/09/2023	01/10/2023	2.5	9.6	10.2	16.5
50	Solid Particles	g/m²/month	Continuous	1	18/09/2023	28/09/2023	0.8	0.8	0.8	0.8
	Conductivity	μS/cm	Special Frequency 1	0*	-	-	-	-	-	-
	Nitrate	mg/L	Special Frequency 1	0*	-	-	-	-	-	-
10	Nitrogen (Total)	mg/L	Special Frequency 1	0*	-	-	-	-	-	-
	Phosphorus (Total)	mg/L	Special Frequency 1	0*	-	-	-	-	-	-
	Reactive Phosphorus	mg/L	Special Frequency 1	0*	-	-	-	-	-	-
	Conductivity	μS/cm	Special Frequency 1	0*	-	-	-	-	-	-
	Nitrate	mg/L	Special Frequency 1	0*	-	-	-	-	-	-
12	Nitrogen (Total)	mg/L	Special Frequency 1	0*	-	-	-	-	-	-
	Phosphorus (Total)	mg/L	Special Frequency 1	0*	-	-	-	-	-	-
	Reactive Phosphorus	mg/L	Special Frequency 1	0*	-	-	-	-	-	-



EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Measurement s for the Month	Date Sampled	Date Obtained	Min Value	Mean Value	Median Value	Max Value
	Conductivity	μS/cm	Special Frequency 1	0*	-	-	-	-	-	-
	Nitrate	mg/L	Special Frequency 1	0*	-	-	-	-	-	-
14	Nitrogen (Total)	mg/L	Special Frequency 1	0*	-	-	-	-	-	-
	Phosphorus (Total)	mg/L	Special Frequency 1	0*	-	-	-	-	-	-
	Reactive Phosphorus	mg/L	Special Frequency 1	0*	-	-	-	-	-	-
	Conductivity	μS/cm	Special Frequency 1	0*	-	-	-	-	-	-
	Nitrate	mg/L	Special Frequency 1	0*	-	-	-	-	-	-
	Nitrogen (Total)	mg/L	Special Frequency 1	0*	-	-	-	-	-	-
	Oil and Grease	mg/L	Special Frequency 1	0*	-	-	-	-	-	-
32	рН	рН	Special Frequency 1	0*	-	-	-	-	-	-
	Phosphorus (Total)	mg/L	Special Frequency 1	0*	-	-	-	-	-	-
	Reactive Phosphorus	mg/L	Special Frequency 1	0*	-	-	-	-	-	-
	Total Suspended Solids	mg/L	Special Frequency 1	0*	-	-	-	-	-	-
	Conductivity	μS/cm	Special Frequency 2	0*	-	-	-	-	-	-
	Nitrate	mg/L	Special Frequency 2	0*	-	-	-	-	-	-
	Nitrogen (Total)	mg/L	Special Frequency 2	0*	-	-	-	-	-	-
	Oil and Grease	mg/L	Special Frequency 2	0*	-	-	-	-	-	-
23	рН	рН	Special Frequency 2	0*	-	-	-	-	-	-
	Phosphorus (Total)	mg/L	Special Frequency 2	0*	-	-	-	-	-	-
	Reactive Phosphorus	mg/L	Special Frequency 2	0*	-	-	-	-	-	-
	Total Suspended Solids	mg/L	Special Frequency 2	0*	-	-	-	-	-	-
	Conductivity	μS/cm	Special Frequency 2	0*	-	-	-	-	-	-
24	Nitrate	mg/L	Special Frequency 2	0*	-	-	-	-	-	-
24	Nitrogen (Total)	mg/L	Special Frequency 2	0*	-	-	-	-	-	-
	Oil and Grease	mg/L	Special Frequency 2	0*	-	-	-	-	-	-



EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Measurement s for the Month	Date Sampled	Date Obtained	Min Value	Mean Value	Median Value	Max Value
	рН	рН	Special Frequency 2	0*	-	-	-	-	-	-
	Phosphorus (Total)	mg/L	Special Frequency 2	0*	-	-	-	-	-	-
	Reactive Phosphorus	mg/L	Special Frequency 2	0*	-	-	-	-	-	-
	Total Suspended Solids	mg/L	Special Frequency 2	0*	-	-	-	-	-	-
	Conductivity	μS/cm	Special Frequency 2	0*	-	-	-	-	-	-
	Nitrate	mg/L	Special Frequency 2	0*	-	-	-	-	-	-
	Nitrogen (Total)	mg/L	Special Frequency 2	0*	-	-	-	-	-	-
	Oil and Grease	mg/L	Special Frequency 2	0*	-	-	-	-	-	-
25	рН	рН	Special Frequency 2	0*	-	-	-	-	-	-
	Phosphorus (Total)	mg/L	Special Frequency 2	0*	-	-	-	-	-	-
	Reactive Phosphorus	mg/L	Special Frequency 2	0*	-	-	-	-	-	-
	Total Suspended Solids	mg/L	Special Frequency 2	0*	-	-	-	-	-	-
	Conductivity	μS/cm	Special Frequency 2	0*	-	-	-	-	-	-
	Nitrate	mg/L	Special Frequency 2	0*	-	-	-	-	-	-
	Nitrogen (Total)	mg/L	Special Frequency 2	0*	-	-	-	-	-	-
	Oil and Grease	mg/L	Special Frequency 2	0*	-	-	-	-	-	-
26	рН	рН	Special Frequency 2	0*	-	-	-	-	-	-
	Phosphorus (Total)	mg/L	Special Frequency 2	0*	-	-	-	-	-	-
	Reactive Phosphorus	mg/L	Special Frequency 2	0*	-	-	-	-	-	-
	Total Suspended Solids	mg/L	Special Frequency 2	0*	-	-	-	-	-	-
33	Aluminium (dissolved)	mg/L	Special Frequency 3	0*	-	-	-	-	-	-
33	Arsenic (dissolved)	mg/L	Special Frequency 3	0*	-	-	-	-	-	-
	Barium (dissolved)	mg/L	Special Frequency 3	0*	-	-	-	-	-	-



EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Measurement s for the Month	Date Sampled	Date Obtained	Min Value	Mean Value	Median Value	Max Value
	Beryllium (dissolved)	mg/L	Special Frequency 3	0*	-	-	-	-	-	-
	BOD	mg/L	Special Frequency 3	0*	-	-	-	-	-	-
	Cadmium (dissolved)	mg/L	Special Frequency 3	0*	-	-	-	-	-	-
	Chromium (dissolved)	mg/L	Special Frequency 3	0*	-	-	-	-	-	-
	Cobalt (dissolved)	mg/L	Special Frequency 3	0*	-	-	-	-	-	-
	Copper (dissolved)	mg/L	Special Frequency 3	0*	-	-	-	-	-	-
	Iron (dissolved)	mg/L	Special Frequency 3	0*	-	-	-	-	-	-
	Lead (dissolved)	mg/L	Special Frequency 3	0*	-	-	-	-	-	-
	Magnesium	mg/L	Special Frequency 3	0*	-	-	-	-	-	-
	Manganese (dissolved)	mg/L	Special Frequency 3	0*	-	-	-	-	-	-
	Nickel (dissolved)	mg/L	Special Frequency 3	0*	-	-	-	-	-	-
	Potassium	mg/L	Special Frequency 3	0*	-	-	-	-	-	-
	Selenium (dissolved)	mg/L	Special Frequency 3	0*	-	-	-	-	-	-
	Sodium	mg/L	Special Frequency 3	0*	-	-	-	-	-	-
	Total dissolved solids	mg/L	Special Frequency 3	0*	-	-	-	-	-	-
	Vanadium (dissolved)	mg/L	Special Frequency 3	0*	-	-	-	-	-	-
	Zinc (dissolved)	mg/L	Special Frequency 3	0*	-	-	-	-	-	-
	Aluminium (dissolved)	mg/L	Special Frequency 3	0*	-	-	-	-	-	-
	Arsenic (dissolved)	mg/L	Special Frequency 3	0*	-	-	-	-	-	-
	Barium (dissolved)	mg/L	Special Frequency 3	0*	-	-	-	-	-	-
34	Beryllium (dissolved)	mg/L	Special Frequency 3	0*	-	-	-	-	-	-
	BOD	mg/L	Special Frequency 3	0*	-	-	-	-	-	-
	Cadmium (dissolved)	mg/L	Special Frequency 3	0*	-	-	-	-	-	-
	Chromium (dissolved)	mg/L	Special Frequency 3	0*	-	-	-	-	-	-
	Cobalt (dissolved)	mg/L	Special Frequency 3	0*	-	-	-	-	-	-



EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Measurement s for the Month	Date Sampled	Date Obtained	Min Value	Mean Value	Median Value	Max Value
	Copper (dissolved)	mg/L	Special Frequency 3	0*	-	-	-	-	-	-
	Iron (dissolved)	mg/L	Special Frequency 3	0*	-	-	-	-	-	-
	Lead (dissolved)	mg/L	Special Frequency 3	0*	-	-	-	-	-	-
	Magnesium	mg/L	Special Frequency 3	0*	-	-	-	-	-	-
	Manganese (dissolved)	mg/L	Special Frequency 3	0*	-	-	-	-	-	-
	Nickel (dissolved)	mg/L	Special Frequency 3	0*	-	-	-	-	-	-
	Potassium	mg/L	Special Frequency 3	0*	-	-	-	-	-	-
	Selenium (dissolved)	mg/L	Special Frequency 3	0*	-	-	-	-	-	-
	Sodium	mg/L	Special Frequency 3	0*	-	-	-	-	-	-
	Total dissolved solids	mg/L	Special Frequency 3	0*	-	-	-	-	-	-
	Vanadium (dissolved)	mg/L	Special Frequency 3	0*	-	-	-	-	-	-
	Zinc (dissolved)	mg/L	Special Frequency 3	0*	-	-	-	-	-	-
	Aluminium (dissolved)	mg/L	Special Frequency 3	0*	-	-	-	-	-	-
	Arsenic (dissolved)	mg/L	Special Frequency 3	0*	-	-	-	-	-	-
	Barium (dissolved)	mg/L	Special Frequency 3	0*	-	-	-	-	-	-
	Beryllium (dissolved)	mg/L	Special Frequency 3	0*	-	-	-	-	-	-
	BOD	mg/L	Special Frequency 3	0*	-	-	-	-	-	-
35	Cadmium (dissolved)	mg/L	Special Frequency 3	0*	-	-	-	-	-	-
	Chromium (dissolved)	mg/L	Special Frequency 3	0*	-	-	-	-	-	-
	Cobalt (dissolved)	mg/L	Special Frequency 3	0*	-	-	-	-	-	-
	Copper (dissolved)	mg/L	Special Frequency 3	0*	-	-	-	-	-	-
	Iron (dissolved)	mg/L	Special Frequency 3	0*	-	-	-	-	-	-
	Lead (dissolved)	mg/L	Special Frequency 3	0*	-	-	-	-	-	-
	Magnesium	mg/L	Special Frequency 3	0*	-	-	-	-	-	-



EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Measurement s for the Month	Date Sampled	Date Obtained	Min Value	Mean Value	Median Value	Max Value
	Manganese (dissolved)	mg/L	Special Frequency 3	0*	-	-	-	-	-	-
	Nickel (dissolved)	mg/L	Special Frequency 3	0*	-	-	-	-	-	-
	Potassium	mg/L	Special Frequency 3	0*	-	-	-	-	-	-
	Selenium (dissolved)	mg/L	Special Frequency 3	0*	-	-	-	-	-	-
	Sodium	mg/L	Special Frequency 3	0*	-	-	-	-	-	-
	Total dissolved solids	mg/L	Special Frequency 3	0*	-	-	-	-	-	-
	Vanadium (dissolved)	mg/L	Special Frequency 3	0*	-	-	-	-	-	-
	Zinc (dissolved)	mg/L	Special Frequency 3	0*	-	-	-	-	-	-

¹NS – No sample.

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of samples for the Month	Date Sampled	Date Obtained	Min Value	Max Value	100%ile Limit	Exceedance (Yes/No)	Comments
10	Total Suspended Solids	mg/L	Special Frequency 1	0*	-	-	-	-	50~	No	
10	Oil and Grease	mg/L	Special Frequency 1	0*	-	-	-	-	10	No	
	рН	рН	Special Frequency 1	0*	-	-	-	-	6.5-8.5	No	
12	Total Suspended Solids	mg/L	Special Frequency 1	0*	-	-	-	-	50~	No	
12	Oil and Grease	mg/L	Special Frequency 1	0*	-	-	-	-	10	No	
	рН	рН	Special Frequency 1	0*	-	-	-	-	6.5-8.5	No	



EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of samples for the Month	Date Sampled	Date Obtained	Min Value	Max Value	100%ile Limit	Exceedance (Yes/No)	Comments
	Total Suspended Solids	mg/L	Special Frequency 1	0*	-	-	-	-	50~	No	
14	Oil and Grease	mg/L	Special Frequency 1	0*	-	-	-	-	10	No	
	рН	рН	Special Frequency 1	0*	-	-	-	-	6.5-8.5	No	
32	Total Suspended Solids	mg/L	Special Frequency 1	0*	-	-	-	-	2000	No	
32	Oil and Grease	mg/L	Special Frequency 1	0*	-	-	-	-	10	No	
	рН	рН	Special Frequency 1	0*	-	-	-	-	9	No	
33	Electrical Conductivity	μS/cm	Special Frequency 4	0*	-	-	-	-	2000	No	
33	Oil and Grease	mg/L	Special Frequency 3	0*	-	-	-	-	10	No	
	рН	рН	Special Frequency 4	0*	-	-	-	-	9	No	
	Electrical Conductivity	μS/cm	Special Frequency 4	2	04/09 & 14/09/2023	01/10/2023	1821	1842	2000	No	
34	Oil and Grease	mg/L	Special Frequency 3	1	08/08/2023	18/09/2023	<5	<5	10	No	
	рН	рН	Special Frequency 4	2	04/09 & 14/09/2023	01/10/2023	8.1	8.2	9	No	
35	Electrical Conductivity	μS/cm	Special Frequency 4	1	27/09/2023	1/10/2023	1780	1780	2000	No	
35	Oil and Grease	mg/L	Special Frequency 3	1	08/08/2023	18/09/2023	<5	<5	10	No	
	рН	рН	Special Frequency 4	1	27/09/2023	1/10/2023	7.9	7.9	9	No	

~ Total Suspended Solids permitted to exceed 50mg/L if 5 day rainfall is greater than 39.2mm prior to discharge

*No Special Frequency Events occurred during Sampling Period, therefore no data has been collected.

[#]The discharge sample was inconsistent with pre-discharge sampling of the dam and has been discussed with the EPA. This will be documented in the Annual Return.

• For the purposes of this condition, Special Frequency 1 means as soon as practicable after overflow commences and in any case not more than 12 hours after any overflow commencing.

• For the purposes of this condition, Special Frequency 2 means within 12 hours after any overflow from a storage dam(s) on the premises occurring.



- For the purposes of this condition, Special Frequency 3 means every three months. If no mine void water is planned to be provided for agricultural purposes within the three months following scheduled sampling, then sampling is not required.
- For the purposes of this condition, Special Frequency 4 means prior to, but not more than 24 hours prior to providing mine void water for agricultural purposes and then weekly thereafter, until the provision of water ceases. Samples are only required to be taken from the void water dam that is supplying water for agricultural purposes.



EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Measurements for the Period	Date Sampled	Date Obtained	Min Value	Mean Value	Median Value	Max Value
	Conductivity	μS/cm	Every 3 Months	0*	-	-	-	-	-	-
	Nitrate	mg/L	Every 3 Months	0*	-	-	-	-	-	-
	Nitrogen (Total)	mg/L	Every 3 Months	0*	-	-	-	-	-	-
	Oil and Grease	mg/L	Every 3 Months	0*	-	-	-	-	-	-
16	рН	рН	Every 3 Months	0*	-	-	-	-	-	-
	Phosphorus (Total)	mg/L	Every 3 Months	0*	-	-	-	-	-	-
	Reactive Phosphorus	mg/L	Every 3 Months	0*	-	-	-	-	-	-
	Total Suspended Solids	mg/L	Every 3 Months	0*	-	-	-	-	-	-
	Conductivity	μS/cm	Every 3 Months	0*	-	-	-	-	-	-
	Nitrate	mg/L	Every 3 Months	0*	-	-	-	-	-	-
	Nitrogen (Total)	mg/L	Every 3 Months	0*	-	-	-	-	-	-
	Oil and Grease	mg/L	Every 3 Months	0*	-	-	-	-	-	-
27	рН	рН	Every 3 Months	0*	-	-	-	-	-	-
	Phosphorus (Total)	mg/L	Every 3 Months	0*	-	-	-	-	-	-
	Reactive Phosphorus	mg/L	Every 3 Months	0*	-	-	-	-	-	-
	Total Suspended Solids	mg/L	Every 3 Months	0*	-	-	-	-	-	-
	Conductivity	μS/cm	Every 6 Months	1	11/09/2023	29/09/2023	1110	1110	1110	1110
	Nitrate	mg/L	Every 6 Months	1	11/09/2023	29/09/2023	5.99	5.99	5.99	5.99
17	Nitrogen (Total)	mg/L	Every 6 Months	1	11/09/2023	29/09/2023	6.9	6.9	6.9	6.9
1/	рН	рН	Every 6 Months	1	11/09/2023	29/09/2023	7.39	7.39	7.39	7.39
	Phosphorus (Total)	mg/L	Every 6 Months	1	11/09/2023	29/09/2023	0.35	0.35	0.35	0.35
	Reactive Phosphorus	mg/L	Every 6 Months	1	11/09/2023	29/09/2023	0.35	0.35	0.35	0.35

Table 3 – Monitoring (Quarterly & 6 monthly – no limits apply)



EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Measurements for the Period	Date Sampled	Date Obtained	Min Value	Mean Value	Median Value	Max Value
	Standing Water Level	Metres	Every 6 Months	1	11/09/2023	29/09/2023	55.66	55.66	55.66	55.66
	Conductivity	μS/cm	Every 6 Months	1	07/09/2023	15/09/2023	1040	1040	1040	1040
	Nitrate	mg/L	Every 6 Months	1	07/09/2023	15/09/2023	9.84	9.84	9.84	9.84
	Nitrogen (Total)	mg/L	Every 6 Months	1	07/09/2023	15/09/2023	10.5	10.5	10.5	10.5
18	рН	рН	Every 6 Months	1	07/09/2023	15/09/2023	7.71	7.71	7.71	7.71
	Phosphorus (Total)	mg/L	Every 6 Months	1	07/09/2023	15/09/2023	0.08	0.08	0.08	0.08
	Reactive Phosphorus	mg/L	Every 6 Months	1	07/09/2023	15/09/2023	0.06	0.06	0.06	0.06
	Standing Water Level	Metres	Every 6 Months	1	07/09/2023	15/09/2023	27.51	27.51	27.51	27.51
	Conductivity	μS/cm	Every 6 Months	1	07/09/2023	15/09/2023	2360	2360	2360	2360
	Nitrate	mg/L	Every 6 Months	1	07/09/2023	15/09/2023	11.2	11.2	11.2	11.2
	Nitrogen (Total)	mg/L	Every 6 Months	1	07/09/2023	15/09/2023	12.1	12.1	12.1	12.1
19	рН	рΗ	Every 6 Months	1	07/09/2023	15/09/2023	7.99	7.99	7.99	7.99
	Phosphorus (Total)	mg/L	Every 6 Months	1	07/09/2023	15/09/2023	0.07	0.07	0.07	0.07
	Reactive Phosphorus	mg/L	Every 6 Months	1	07/09/2023	15/09/2023	0.1	0.1	0.1	0.1
	Standing Water Level	Metres	Every 6 Months	1	07/09/2023	15/09/2023	15.13	15.13	15.13	15.13
	Conductivity	μS/cm	Every 6 Months	1	07/09/2023	15/09/2023	973	973	973	973
	Nitrate	mg/L	Every 6 Months	1	07/09/2023	15/09/2023	1.02	1.02	1.02	1.02
	Nitrogen (Total)	mg/L	Every 6 Months	1	07/09/2023	15/09/2023	1.2	1.2	1.2	1.2
20	рН	рН	Every 6 Months	1	07/09/2023	15/09/2023	7.93	7.93	7.93	7.93
	Phosphorus (Total)	mg/L	Every 6 Months	1	07/09/2023	15/09/2023	0.19	0.19	0.19	0.19
	Reactive Phosphorus	mg/L	Every 6 Months	1	07/09/2023	15/09/2023	0.19	0.19	0.19	0.19
	Standing Water Level	Metres	Every 6 Months	1	07/09/2023	15/09/2023	12.9	12.9	12.9	12.9
	Conductivity	μS/cm	Every 6 Months	1	07/09/2023	15/09/2023	2120	2120	2120	2120
	Nitrate	mg/L	Every 6 Months	1	07/09/2023	15/09/2023	2.3	2.3	2.3	2.3
21	Nitrogen (Total)	mg/L	Every 6 Months	1	07/09/2023	15/09/2023	2.7	2.7	2.7	2.7
	рН	рН	Every 6 Months	1	07/09/2023	15/09/2023	8	8	8	8
	Phosphorus (Total)	mg/L	Every 6 Months	1	07/09/2023	15/09/2023	0.26	0.26	0.26	0.26



EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Measurements for the Period	Date Sampled	Date Obtained	Min Value	Mean Value	Median Value	Max Value
	Reactive Phosphorus	mg/L	Every 6 Months	1	07/09/2023	15/09/2023	0.26	0.26	0.26	0.26
	Standing Water Level	Metres	Every 6 Months	1	07/09/2023	15/09/2023	8.23	8.23	8.23	8.23
	Conductivity	μS/cm	Every 6 Months	1	07/09/2023	15/09/2023	1690	1690	1690	1690
	Nitrate	mg/L	Every 6 Months	1	07/09/2023	15/09/2023	3.63	3.63	3.63	3.63
	Nitrogen (Total)	mg/L	Every 6 Months	1	07/09/2023	15/09/2023	4.1	4.1	4.1	4.1
22	рН	рН	Every 6 Months	1	07/09/2023	15/09/2023	7.67	7.67	7.67	7.67
	Phosphorus (Total)	mg/L	Every 6 Months	1	07/09/2023	15/09/2023	0.09	0.09	0.09	0.09
	Reactive Phosphorus	mg/L	Every 6 Months	1	07/09/2023	15/09/2023	0.09	0.09	0.09	0.09
	Standing Water Level	Metres	Every 6 Months	1	07/09/2023	15/09/2023	13.19	13.19	13.19	13.19

TLTS – too low to sample

*This reporting period does not include measurements for the 6 monthly or 3 monthly monitoring as they did not occur in this period. These will be reported in their relevant periods.



Location	Date	Measurement Period	Start Time	Measured levels – dB(A)			Weather (Inversion		(Potential) Non-	Date
				LA1, 1 Minute	LAeq, 15 Minute	Limit(s)	°C/100m & / Wind m/s / Wind Direction °)	Observations	compliance /breach	Obtained
R24	27 September 2023	60 minutes	11:29am	N/A	47	Day 37	5.3 / 289	Traffic (47), birds (33), WCC (26)	No	10/10/2023
R12	27 September 2023	60 minutes	5:25pm	N/A	58	Day 38	3.9 / 217	Traffic (58), birds (27), insects (21), WCC (<20)	No	10/10/2023
R96	27 September 2023	60 minutes	4:17pm	N/A	41	Day 38	5.9 / 236	Traffic (39), birds (35), WCC (32)	No	10/10/2023
R98	27 September 2023	60 minutes	3:09pm	N/A	37	Day 35	6.6 / 243	Birds (37), WCC (<20)	No	10/10/2023
R57	27 September 2023	60 minutes	1:20pm	N/A	47	Day 35	4.8 / 260	Traffic (39), Crawfords ² (37), birds (35), WCC (<20)	No	10/10/2023
R24	26 & 27 September 2023	60 minutes	7:56pm	<20	43	Night 37	Lapse / 5.1 / 195	Train (43), traffic (30), frogs (20), WCC (<20)	No	10/10/2023
R12	26 & 27 September 2023	60 minutes	11:52pm	<20	40	Night 38	+4.1 / 1.1 / 275	Birds (38), frogs (33), traffic (32), WCC (<20)	No	10/10/2023
R96	26 & 27 September 2023	60 minutes	10:39pm	<20	37	Night 37	Lapse / 1.6 / 120	Traffic (37), frogs (24), insects (21), WCC (<20)	No	10/10/2023
R98	26 & 27 September 2023	60 minutes	9:31pm	<20	49	Night 35	+3.8 / 2.4 / 160	Dogs (49), frogs (31), WCC (<20)	No	10/10/2023
R57	26 & 27 September 2023	60 minutes	7:41pm	<20	38	Night 35	+4.4 / 3.4 / 021	Traffic (37), frogs (29), WCC (<20)	No	10/10/2023

Table 4 – Monitoring (Noise – Limits Apply)

NM = Not Measurable. This denotes noise from the mine was audible at low levels however cannot be quantified.

IA = Inaudible.

¹ Crawfords Freightlines Werris Creek



Location	Parameter	Units of	Frequency	No. of Blasts	Average	Max	100%ile	(Potential) Non-	Date
		Measure	Frequency	for the Month	Value	Value	Limit	compliance /breach	Obtained
R11	Blast Noise	dB (Lin Peak)	Every Blast	1	94.8	94.8	120.0	No	01/10/2023
	Blast Vibration	mm/s	Every Blast	1	0.07	0.07	10.0	No	01/10/2023
R98	Blast Noise	dB (Lin Peak)	Every Blast	1	95.6	95.6	120.0	No	01/10/2023
	Blast Vibration	mm/s	Every Blast	1	0.87	0.87	10.0	No	01/10/2023
R62	Blast Noise	dB (Lin Peak)	Every Blast	1	95.3	95.3	120.0	No	01/10/2023
	Blast Vibration	mm/s	Every Blast	1	0.35	0.35	10.0	No	01/10/2023
R92	Blast Noise	dB (Lin Peak)	Every Blast	1	93.4	93.4	120.0	No	01/10/2023
	Blast Vibration	mm/s	Every Blast	1	0.26	0.26	10.0	No	01/10/2023

Table 5 – Monitoring (Blasts – Limits Apply)



