

WERRIS CREEK COAL EPL – MONTHLY SUMMARY

Site Information

EPL No.: 12290

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

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: NOVEMBER 2023

Obtained Date: 18/12/2023

Publication Date: 19/12/2023

Table 1 - No Pollutant Limits Apply

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Measurements for the Month	Date Sampled	Date Obtained	Min Value	Mean Value	Median Value	Max Value
28	PM10	µg/m ³	Every 6 days	5	25/11/2023	18/12/2023	1.4	8.0	8.8	15.3
	Solid Particles	g/m ² /month	Continuous	1	20/11/2023	1/12/2023	0.4	0.4	0.4	0.4
29	PM10	µg/m ³	Every 6 days	5	25/11/2023	18/12/2023	2.0	12.0	12.1	22.7
	Solid Particles	g/m ² /month	Continuous	1	20/11/2023	1/12/2023	0.6	0.6	0.6	0.6
30	PM10	µg/m ³	Continuous	Continuous	30/11/2023	04/12/2023	4.2	8.6	7.1	31.4
	Solid Particles	g/m ² /month	Continuous	1	20/11/2023	1/12/2023	0.5	0.5	0.5	0.5
10	Conductivity	µS/cm	Special Frequency 1	0*	-	-	-	-	-	-
	Nitrate	mg/L	Special Frequency 1	0*	-	-	-	-	-	-
	Nitrogen (Total)	mg/L	Special Frequency 1	0*	-	-	-	-	-	-
	Phosphorus (Total)	mg/L	Special Frequency 1	0*	-	-	-	-	-	-
	Reactive Phosphorus	mg/L	Special Frequency 1	0*	-	-	-	-	-	-
12	Conductivity	µS/cm	Special Frequency 1	0*	-	-	-	-	-	-
	Nitrate	mg/L	Special Frequency 1	0*	-	-	-	-	-	-
	Nitrogen (Total)	mg/L	Special Frequency 1	0*	-	-	-	-	-	-
	Phosphorus (Total)	mg/L	Special Frequency 1	0*	-	-	-	-	-	-
	Reactive Phosphorus	mg/L	Special Frequency 1	0*	-	-	-	-	-	-



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14	Conductivity	µS/cm	Special Frequency 1	0*	-	-	-	-	-	-
	Nitrate	mg/L	Special Frequency 1	0*	-	-	-	-	-	-
	Nitrogen (Total)	mg/L	Special Frequency 1	0*	-	-	-	-	-	-
	Phosphorus (Total)	mg/L	Special Frequency 1	0*	-	-	-	-	-	-
	Reactive Phosphorus	mg/L	Special Frequency 1	0*	-	-	-	-	-	-
32	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*	-	-	-	-	-	-
	pH	pH	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*	-	-	-	-	-	-	
23	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*	-	-	-	-	-	-
	pH	pH	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*	-	-	-	-	-	-	
24	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*	-	-	-	-	-	-

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	pH	pH	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*	-	-	-	-	-	-
25	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*	-	-	-	-	-	-
	pH	pH	Special Frequency 2	0*	-	-	-	-	-	-
	Phosphorus (Total)	mg/L	Special Frequency 2	0*	-	-	-	-	-	-
	Reactive Phosphorus	mg/L	Special Frequency 2	0*	-	-	-	-	-	-
26	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*	-	-	-	-	-	-
	pH	pH	Special Frequency 2	0*	-	-	-	-	-	-
	Phosphorus (Total)	mg/L	Special Frequency 2	0*	-	-	-	-	-	-
	Reactive Phosphorus	mg/L	Special Frequency 2	0*	-	-	-	-	-	-
33	Total Suspended Solids	mg/L	Special Frequency 2	0*	-	-	-	-	-	-
	Aluminium (dissolved)	mg/L	Special Frequency 3	1	21/11/2023	30/11/2023	0.1	0.1	0.1	0.1
	Arsenic (dissolved)	mg/L	Special Frequency 3	1	21/11/2023	30/11/2023	<0.001	<0.001	<0.001	<0.001
	Barium (dissolved)	mg/L	Special Frequency 3	1	21/11/2023	30/11/2023	0.062	0.062	0.062	0.062



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	Beryllium (dissolved)	mg/L	Special Frequency 3	1	21/11/2023	30/11/2023	<0.001	<0.001	<0.001	<0.001
	BOD	mg/L	Special Frequency 3	1	21/11/2023	30/11/2023	<2	<2	<2	<2
	Cadmium (dissolved)	mg/L	Special Frequency 3	1	21/11/2023	30/11/2023	<0.0001	<0.0001	<0.0001	<0.0001
	Chromium (dissolved)	mg/L	Special Frequency 3	1	21/11/2023	30/11/2023	<0.001	<0.001	<0.001	<0.001
	Cobalt (dissolved)	mg/L	Special Frequency 3	1	21/11/2023	30/11/2023	<0.001	<0.001	<0.001	<0.001
	Copper (dissolved)	mg/L	Special Frequency 3	1	21/11/2023	30/11/2023	<0.001	<0.001	<0.001	<0.001
	Iron (dissolved)	mg/L	Special Frequency 3	1	21/11/2023	30/11/2023	<0.05	<0.05	<0.05	<0.05
	Lead (dissolved)	mg/L	Special Frequency 3	1	21/11/2023	30/11/2023	<0.001	<0.001	<0.001	<0.001
	Magnesium	mg/L	Special Frequency 3	1	21/11/2023	30/11/2023	49	49	49	49
	Manganese (dissolved)	mg/L	Special Frequency 3	1	21/11/2023	30/11/2023	0.029	0.029	0.029	0.029
	Nickel (dissolved)	mg/L	Special Frequency 3	1	21/11/2023	30/11/2023	0.001	0.001	0.001	0.001
	Potassium	mg/L	Special Frequency 3	1	21/11/2023	30/11/2023	18	18	18	18
	Selenium (dissolved)	mg/L	Special Frequency 3	1	21/11/2023	30/11/2023	<0.01	<0.01	<0.01	<0.01
	Sodium	mg/L	Special Frequency 3	1	21/11/2023	30/11/2023	188	188	188	188
	Total dissolved solids	mg/L	Special Frequency 3	1	21/11/2023	30/11/2023	1510	1510	1510	1510
	Vanadium (dissolved)	mg/L	Special Frequency 3	1	21/11/2023	30/11/2023	<0.01	<0.01	<0.01	<0.01
Zinc (dissolved)	mg/L	Special Frequency 3	1	21/11/2023	30/11/2023	<0.005	<0.005	<0.005	<0.005	
34	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*	-	-	-	-	-	-
	Cadmium (dissolved)	mg/L	Special Frequency 3	0*	-	-	-	-	-	-
	Chromium (dissolved)	mg/L	Special Frequency 3	0*	-	-	-	-	-	-
	Cobalt (dissolved)	mg/L	Special Frequency 3	0*	-	-	-	-	-	-

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	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*	-	-	-	-	-	-	
35	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*	-	-	-	-	-	-
	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*	-	-	-	-	-	-	

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EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Measurements 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.

Table 2 - Pollutant Limits Apply

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	
	Oil and Grease	mg/L	Special Frequency 1	0*	-	-	-	-	10	No	
	pH	pH	Special Frequency 1	0*	-	-	-	-	6.5-8.5	No	
12	Total Suspended Solids	mg/L	Special Frequency 1	0*	-	-	-	-	50~	No	
	Oil and Grease	mg/L	Special Frequency 1	0*	-	-	-	-	10	No	
	pH	pH	Special Frequency 1	0*	-	-	-	-	6.5-8.5	No	



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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
14	Total Suspended Solids	mg/L	Special Frequency 1	0*	-	-	-	-	50~	No	
	Oil and Grease	mg/L	Special Frequency 1	0*	-	-	-	-	10	No	
	pH	pH	Special Frequency 1	0*	-	-	-	-	6.5-8.5	No	
32	Total Suspended Solids	mg/L	Special Frequency 1	0*	-	-	-	-	2000	No	
	Oil and Grease	mg/L	Special Frequency 1	0*	-	-	-	-	10	No	
	pH	pH	Special Frequency 1	0*	-	-	-	-	9	No	
33	Electrical Conductivity	µS/cm	Special Frequency 4	0*	-	-	-	-	2000	No	
	Oil and Grease	mg/L	Special Frequency 3	0*	-	-	-	-	10	No	
	pH	pH	Special Frequency 4	0*	-	-	-	-	9	No	
34	Electrical Conductivity	µS/cm	Special Frequency 4	0*	-	-	-	-	2000	No	
	Oil and Grease	mg/L	Special Frequency 3	0*	-	-	-	-	10	No	
	pH	pH	Special Frequency 4	0*	-	-	-	-	9	No	
35	Electrical Conductivity	µS/cm	Special Frequency 4	0*	-	-	-	-	2000	No	
	Oil and Grease	mg/L	Special Frequency 3	0*	-	-	-	-	10	No	
	pH	pH	Special Frequency 4	0*	-	-	-	-	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.



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- 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.

WERRIS CREEK COAL EPL – MONTHLY SUMMARY
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
16	Conductivity	µS/cm	Every 3 Months	1	21/11/2023	30/11/2023	1960	1960	1960	1960
	Nitrate	mg/L	Every 3 Months	1	21/11/2023	30/11/2023	0.04	0.04	0.04	0.04
	Nitrogen (Total)	mg/L	Every 3 Months	1	21/11/2023	30/11/2023	0.2	0.2	0.2	0.2
	Oil and Grease	mg/L	Every 3 Months	1	21/11/2023	30/11/2023	<5	<5	<5	<5
	pH	pH	Every 3 Months	1	21/11/2023	30/11/2023	7.91	7.91	7.91	7.91
	Phosphorus (Total)	mg/L	Every 3 Months	1	21/11/2023	30/11/2023	0.02	0.02	0.02	0.02
	Reactive Phosphorus	mg/L	Every 3 Months	1	21/11/2023	30/11/2023	<0.01	<0.01	<0.01	<0.01
Total Suspended Solids	mg/L	Every 3 Months	1	21/11/2023	30/11/2023	<5	<5	<5	<5	
27	Conductivity	µS/cm	Every 3 Months	0	decommissioned	-	-	-	-	-
	Nitrate	mg/L	Every 3 Months	0	decommissioned	-	-	-	-	-
	Nitrogen (Total)	mg/L	Every 3 Months	0	decommissioned	-	-	-	-	-
	Oil and Grease	mg/L	Every 3 Months	0	decommissioned	-	-	-	-	-
	pH	pH	Every 3 Months	0	decommissioned	-	-	-	-	-
	Phosphorus (Total)	mg/L	Every 3 Months	0	decommissioned	-	-	-	-	-
	Reactive Phosphorus	mg/L	Every 3 Months	0	decommissioned	-	-	-	-	-
Total Suspended Solids	mg/L	Every 3 Months	0	decommissioned	-	-	-	-	-	
17	Conductivity	µS/cm	Every 6 Months	0*	-	-	-	-	-	-
	Nitrate	mg/L	Every 6 Months	0*	-	-	-	-	-	-
	Nitrogen (Total)	mg/L	Every 6 Months	0*	-	-	-	-	-	-
	pH	pH	Every 6 Months	0*	-	-	-	-	-	-

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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
	Phosphorus (Total)	mg/L	Every 6 Months	0*	-	-	-	-	-	-
	Reactive Phosphorus	mg/L	Every 6 Months	0*	-	-	-	-	-	-
	Standing Water Level	Metres	Every 6 Months	0*	-	-	-	-	-	-
18	Conductivity	µS/cm	Every 6 Months	0*	-	-	-	-	-	-
	Nitrate	mg/L	Every 6 Months	0*	-	-	-	-	-	-
	Nitrogen (Total)	mg/L	Every 6 Months	0*	-	-	-	-	-	-
	pH	pH	Every 6 Months	0*	-	-	-	-	-	-
	Phosphorus (Total)	mg/L	Every 6 Months	0*	-	-	-	-	-	-
	Reactive Phosphorus	mg/L	Every 6 Months	0*	-	-	-	-	-	-
	Standing Water Level	Metres	Every 6 Months	0*	-	-	-	-	-	-
19	Conductivity	µS/cm	Every 6 Months	0*	-	-	-	-	-	-
	Nitrate	mg/L	Every 6 Months	0*	-	-	-	-	-	-
	Nitrogen (Total)	mg/L	Every 6 Months	0*	-	-	-	-	-	-
	pH	pH	Every 6 Months	0*	-	-	-	-	-	-
	Phosphorus (Total)	mg/L	Every 6 Months	0*	-	-	-	-	-	-
	Reactive Phosphorus	mg/L	Every 6 Months	0*	-	-	-	-	-	-
	Standing Water Level	Metres	Every 6 Months	0*	-	-	-	-	-	-
20	Conductivity	µS/cm	Every 6 Months	0*	-	-	-	-	-	-
	Nitrate	mg/L	Every 6 Months	0*	-	-	-	-	-	-
	Nitrogen (Total)	mg/L	Every 6 Months	0*	-	-	-	-	-	-
	pH	pH	Every 6 Months	0*	-	-	-	-	-	-

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	Phosphorus (Total)	mg/L	Every 6 Months	0*	-	-	-	-	-	-
	Reactive Phosphorus	mg/L	Every 6 Months	0*	-	-	-	-	-	-
	Standing Water Level	Metres	Every 6 Months	0*	-	-	-	-	-	-
21	Conductivity	µS/cm	Every 6 Months	0*	-	-	-	-	-	-
	Nitrate	mg/L	Every 6 Months	0*	-	-	-	-	-	-
	Nitrogen (Total)	mg/L	Every 6 Months	0*	-	-	-	-	-	-
	pH	pH	Every 6 Months	0*	-	-	-	-	-	-
	Phosphorus (Total)	mg/L	Every 6 Months	0*	-	-	-	-	-	-
	Reactive Phosphorus	mg/L	Every 6 Months	0*	-	-	-	-	-	-
	Standing Water Level	Metres	Every 6 Months	0*	-	-	-	-	-	-
22	Conductivity	µS/cm	Every 6 Months	0*	-	-	-	-	-	-
	Nitrate	mg/L	Every 6 Months	0*	-	-	-	-	-	-
	Nitrogen (Total)	mg/L	Every 6 Months	0*	-	-	-	-	-	-
	pH	pH	Every 6 Months	0*	-	-	-	-	-	-
	Phosphorus (Total)	mg/L	Every 6 Months	0*	-	-	-	-	-	-
	Reactive Phosphorus	mg/L	Every 6 Months	0*	-	-	-	-	-	-
	Standing Water Level	Metres	Every 6 Months	0*	-	-	-	-	-	-

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.

WERRIS CREEK COAL EPL – MONTHLY SUMMARY

Table 4 – Monitoring (Noise – Limits Apply)

Location	Date	Measurement Period	Start Time	Measured levels – dB(A)		Limit(s)	Weather (Inversion °C/100m & / Wind m/s / Wind Direction °)	Observations	(Potential) Non-compliance /breach	Date Obtained
				LA1, 1 Minute	LAeq, 15 Minute					
R24	7 November 2023	60 minutes	11:41am	N/A	52	Day 37	2.8 / 318	Traffic (50), birds (47), WCC (<20)	No	04/12/2023
R12	7 November 2023	60 minutes	5:02pm	N/A	49	Day 38	1.7 / 222	Traffic (49), birds (33), insects (24), WCC (<20)	No	04/12/2023
R96	7 November 2023	60 minutes	3:58pm	N/A	44	Day 38	0.9 / 068	Traffic (44), birds (27), insects (22), WCC (<20)	No	04/12/2023
R98	7 November 2023	60 minutes	2:51pm	N/A	36	Day 35	1.6 / 221	Birds (34), traffic (29), WCC (24) , insects (23)	No	04/12/2023
R57	7 November 2023	60 minutes	1:39pm	N/A	46	Day 35	0.9 / 016	Traffic (46), birds (30), insects (22), WCC (<20)	No	04/12/2023
R24	7 November 2023	60 minutes	7:51pm	<20	45	Night 37	Lapse / 3.5 / 112	Traffic (44), insects (36), WCC (<20)	No	04/12/2023
R12	7 November 2023	60 minutes	11:50pm	<20	61	Night 38	+3.8 / 0.0 / 246	Trains (61), insects (23), WCC (<20)	No	04/12/2023
R96	7 November 2023	60 minutes	10:41pm	<20	34	Night 37	+2.8 / 1.3 / 152	Frogs (33), insects (26), aeroplanes (23), WCC (<20)	No	04/12/2023
R98	7 November 2023	60 minutes	9:30pm	<20	42	Night 35	Lapse / 2.3 / 155	Insects (42), residential (30), WCC (<20)	No	04/12/2023
R57	7 November 2023	60 minutes	7:44pm	25	43	Night 35	Lapse / 3.3 / 152	Traffic (43), insects (30), frogs (27), WCC (22)	No	04/12/2023

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

IA = Inaudible.

¹ Crawford's Freightlines Werris Creek

WERRIS CREEK COAL EPL – MONTHLY SUMMARY
Table 5 – 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 Obtained
R11	Blast Noise	dB (Lin Peak)	Every Blast	1	96.5	96.5	120.0	No	01/12/2023
	Blast Vibration	mm/s	Every Blast	1	0.12	0.12	10.0	No	01/12/2023
R98	Blast Noise	dB (Lin Peak)	Every Blast	1	97.3	97.3	120.0	No	01/12/2023
	Blast Vibration	mm/s	Every Blast	1	0.88	0.88	10.0	No	01/12/2023
R62	Blast Noise	dB (Lin Peak)	Every Blast	1	100.8	100.8	120.0	No	01/12/2023
	Blast Vibration	mm/s	Every Blast	1	0.45	0.45	10.0	No	01/12/2023
R92	Blast Noise	dB (Lin Peak)	Every Blast	1	71.5	71.5	120.0	No	01/12/2023
	Blast Vibration	mm/s	Every Blast	1	0.25	0.25	10.0	No	01/12/2023



WERRIS CREEK COAL EPL – MONTHLY SUMMARY

