

## 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:** January 2020

**Obtained Date:** 12/2/20

**Publication Date:** 17/2/20

**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 <sup>3</sup>	Every 6 days	5	27/01/2020	7/02/2020	8.8	44.2	45.6	71.3
	Solid Particles	g/m <sup>2</sup> /month	Continuous	1	20/01/2020	5/02/2020	2.0	2.0	2.0	2.0
29	PM10	µg/m <sup>3</sup>	Every 6 days	5	27/01/2020	7/02/2020	30.7	44.3	45.1	56.3
	Solid Particles	g/m <sup>2</sup> /month	Continuous	1	20/01/2020	5/02/2020	3.0	3.0	3.0	3.0
30	PM10	µg/m <sup>3</sup>	Continuous	Continuous	31/01/2020	1/02/2020	10.4	44.7	35.6	329.7
	Solid Particles	g/m <sup>2</sup> /month	Continuous	1	20/01/2020	5/02/2020	1.5	1.5	1.5	1.5
10	Conductivity	µS/cm	Special Frequency 1	1	25/01/2020	5/02/2020	215	215	215	215
	Nitrate	mg/L	Special Frequency 1	1	25/01/2020	5/02/2020	2.24	2.24	2.24	2.24
	Nitrogen (Total)	mg/L	Special Frequency 1	1	25/01/2020	5/02/2020	3.5	3.5	3.5	3.5
	Phosphorus (Total)	mg/L	Special Frequency 1	1	25/01/2020	5/02/2020	0.29	0.29	0.29	0.29
	Reactive Phosphorus	mg/L	Special Frequency 1	1	25/01/2020	5/02/2020	0.02	0.02	0.02	0.02
12	Conductivity	µS/cm	Special Frequency 1	1	25/01/2020	5/02/2020	266	266	266	266
	Nitrate	mg/L	Special Frequency 1	1	25/01/2020	5/02/2020	14.4	14.4	14.4	14.4
	Nitrogen (Total)	mg/L	Special Frequency 1	1	25/01/2020	5/02/2020	18.7	18.7	18.7	18.7
	Phosphorus (Total)	mg/L	Special Frequency 1	1	25/01/2020	5/02/2020	1	1	1	1
	Reactive Phosphorus	mg/L	Special Frequency 1	1	25/01/2020	5/02/2020	0.8	0.8	0.8	0.8
14	Conductivity	µS/cm	Special Frequency 1	1	25/01/2020	5/02/2020	120	120	120	120
	Nitrate	mg/L	Special Frequency 1	1	25/01/2020	5/02/2020	1.94	1.94	1.94	1.94

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	Nitrogen (Total)	mg/L	Special Frequency 1	1	25/01/2020	5/02/2020	3.5	3.5	3.5	3.5
	Phosphorus (Total)	mg/L	Special Frequency 1	1	25/01/2020	5/02/2020	0.53	0.53	0.53	0.53
	Reactive Phosphorus	mg/L	Special Frequency 1	1	25/01/2020	5/02/2020	0.28	0.28	0.28	0.28
32	Conductivity	µS/cm	Special Frequency 1	1	25/01/2020	5/02/2020	178	178	178	178
	Nitrate	mg/L	Special Frequency 1	1	25/01/2020	5/02/2020	4.11	4.11	4.11	4.11
	Nitrogen (Total)	mg/L	Special Frequency 1	1	25/01/2020	5/02/2020	5.9	5.9	5.9	5.9
	Oil and Grease	mg/L	Special Frequency 1	1	25/01/2020	5/02/2020	<5	<5	<5	<5
	pH	pH	Special Frequency 1	1	25/01/2020	5/02/2020	7.42	7.42	7.42	7.42
	Phosphorus (Total)	mg/L	Special Frequency 1	1	25/01/2020	5/02/2020	0.44	0.44	0.44	0.44
	Reactive Phosphorus	mg/L	Special Frequency 1	1	25/01/2020	5/02/2020	0.05	0.05	0.05	0.05
	Total Suspended Solids	mg/L	Special Frequency 1	1	25/01/2020	5/02/2020	3580	3580	3580	3580
23	Conductivity	µS/cm	Special Frequency 2	1	25/01/2020	5/02/2020	198	198	198	198
	Nitrate	mg/L	Special Frequency 2	1	25/01/2020	5/02/2020	4.27	4.27	4.27	4.27
	Nitrogen (Total)	mg/L	Special Frequency 2	1	25/01/2020	5/02/2020	6.7	6.7	6.7	6.7
	Oil and Grease	mg/L	Special Frequency 2	1	25/01/2020	5/02/2020	<5	<5	<5	<5
	pH	pH	Special Frequency 2	1	25/01/2020	5/02/2020	7.61	7.61	7.61	7.61
	Phosphorus (Total)	mg/L	Special Frequency 2	1	25/01/2020	5/02/2020	0.71	0.71	0.71	0.71
	Reactive Phosphorus	mg/L	Special Frequency 2	1	25/01/2020	5/02/2020	0.33	0.33	0.33	0.33
	Total Suspended Solids	mg/L	Special Frequency 2	1	25/01/2020	5/02/2020	1360	1360	1360	1360
24	Conductivity	µS/cm	Special Frequency 2	1	25/01/2020	5/02/2020	340	340	340	340
	Nitrate	mg/L	Special Frequency 2	1	25/01/2020	5/02/2020	2.92	2.92	2.92	2.92
	Nitrogen (Total)	mg/L	Special Frequency 2	1	25/01/2020	5/02/2020	4.5	4.5	4.5	4.5
	Oil and Grease	mg/L	Special Frequency 2	1	25/01/2020	5/02/2020	<5	<5	<5	<5
	pH	pH	Special Frequency 2	1	25/01/2020	5/02/2020	7.57	7.57	7.57	7.57
	Phosphorus (Total)	mg/L	Special Frequency 2	1	25/01/2020	5/02/2020	0.48	0.48	0.48	0.48
	Reactive Phosphorus	mg/L	Special Frequency 2	1	25/01/2020	5/02/2020	0.34	0.34	0.34	0.34

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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
	Total Suspended Solids	mg/L	Special Frequency 2	1	25/01/2020	5/02/2020	1380	1380	1380	1380
25	Conductivity	µS/cm	Special Frequency 2	1	25/01/2020	5/02/2020	71	71	71	71
	Nitrate	mg/L	Special Frequency 2	1	25/01/2020	5/02/2020	1.93	1.93	1.93	1.93
	Nitrogen (Total)	mg/L	Special Frequency 2	1	25/01/2020	5/02/2020	4.4	4.4	4.4	4.4
	Oil and Grease	mg/L	Special Frequency 2	1	25/01/2020	5/02/2020	<5	<5	<5	<5
	pH	pH	Special Frequency 2	1	25/01/2020	5/02/2020	7.58	7.58	7.58	7.58
	Phosphorus (Total)	mg/L	Special Frequency 2	1	25/01/2020	5/02/2020	0.71	0.71	0.71	0.71
	Reactive Phosphorus	mg/L	Special Frequency 2	1	25/01/2020	5/02/2020	0.38	0.38	0.38	0.38
	Total Suspended Solids	mg/L	Special Frequency 2	1	25/01/2020	5/02/2020	1430	1430	1430	1430
26	Conductivity	µS/cm	Special Frequency 2	1	25/01/2020	5/02/2020	156	156	156	156
	Nitrate	mg/L	Special Frequency 2	1	25/01/2020	5/02/2020	2.37	2.37	2.37	2.37
	Nitrogen (Total)	mg/L	Special Frequency 2	1	25/01/2020	5/02/2020	4.2	4.2	4.2	4.2
	Oil and Grease	mg/L	Special Frequency 2	1	25/01/2020	5/02/2020	<5	<5	<5	<5
	pH	pH	Special Frequency 2	1	25/01/2020	5/02/2020	7.4	7.4	7.4	7.4
	Phosphorus (Total)	mg/L	Special Frequency 2	1	25/01/2020	5/02/2020	0.61	0.61	0.61	0.61
	Reactive Phosphorus	mg/L	Special Frequency 2	1	25/01/2020	5/02/2020	0.31	0.31	0.31	0.31
	Total Suspended Solids	mg/L	Special Frequency 2	1	25/01/2020	5/02/2020	4610	4610	4610	4610
33*	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	-	-	-	-	-	-

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	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	-	-	-	-	-	-
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	-	-	-	-	-	-
	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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	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	-	-	-	-	-	-
	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	-	-	-	-	-	-

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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
	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	-	-	-	-	-	-

**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)
10	Total Suspended Solids	mg/L	Special Frequency 1	1	25/01/2020	5/02/2020	18300	18300	50*	No
	Oil and Grease	mg/L	Special Frequency 1	1	25/01/2020	5/02/2020	<5	<5	10	No
	pH	pH	Special Frequency 1	1	25/01/2020	5/02/2020	7.69	7.69	6.5-8.5	No
12	Total Suspended Solids	mg/L	Special Frequency 1	1	25/01/2020	5/02/2020	83	83	50*	No
	Oil and Grease	mg/L	Special Frequency 1	1	25/01/2020	5/02/2020	<5	<5	10	No
	pH	pH	Special Frequency 1	1	25/01/2020	5/02/2020	6.89	6.89	6.5-8.5	No
14	Total Suspended Solids	mg/L	Special Frequency 1	1	25/01/2020	5/02/2020	900	900	50*	No
	Oil and Grease	mg/L	Special Frequency 1	1	25/01/2020	5/02/2020	<5	<5	10	No
	pH	pH	Special Frequency 1	1	25/01/2020	5/02/2020	7.72	7.72	6.5-8.5	No
32	Total Suspended Solids	mg/L	Special Frequency 1	1	25/01/2020	5/02/2020	3580	3580	50*	No
	Oil and Grease	mg/L	Special Frequency 1	1	25/01/2020	5/02/2020	<5	<5	10	No
	pH	pH	Special Frequency 1	1	25/01/2020	5/02/2020	7.42	7.42	6.5-8.5	No
33^	Electrical Conductivity	mg/L	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	mg/L	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	mg/L	Special Frequency 4	0	-	-	-	-	2000	No

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	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

^ EPL ID Point 33 is the point of discharge for discharge sampling

**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	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	-	-	-	-	-	-
	pH	pH	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	-	-	-	-	-	-
27	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	-	-	-	-	-	-
	pH	pH	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	-	-	-	-	-	-

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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
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	-	-	-	-	-	-
	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	-	-	-	-	-	-
	Phosphorus (Total)	mg/L	Every 6 Months	0	-	-	-	-	-	-
	Reactive Phosphorus	mg/L	Every 6 Months	0	-	-	-	-	-	-
	Standing Water Level	Metres	Every 6 Months	0	-	-	-	-	-	-



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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

## 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 oC/100m, wind m/s & °)	Observations	(Potential) Non-compliance /breach	Date Obtained
				LA1, 1 Minute	LAeq, 15 Minute					
<b>R24</b>	21 and 22 January 2020	60 minutes	11:20am	N/A	45	Day 37	3.9m/s, 339 degrees	Traffic (44), birds (39), <b>WCC (&lt;20)</b>	No	12/02/2020
<b>R12</b>	21 and 22 January 2020	60 minutes	12:24pm	N/A	43	Day 38	3.9m/s, 289 degrees	Traffic (43), <b>WCC (&lt;20)</b>	No	12/02/2020
<b>R96</b>	21 and 22 January 2020	60 minutes	1:33pm	N/A	32	Day 38	3.0m/s, 289 degrees	Insects (30), wind (26), <b>WCC (&lt;20)</b>	No	12/02/2020
<b>R98</b>	21 and 22 January 2020	60 minutes	2:39pm	N/A	32	Day 36	3.7m/s, 276 degrees	Birds (29), dogs (29), <b>WCC (20)</b>	No	12/02/2020
<b>R57</b>	21 and 22 January 2020	60 minutes	4:24pm	N/A	50	Day 35	4.9m/s, 276 degrees	Traffic (50), <b>WCC (&lt;20)</b>	No	12/02/2020
<b>R24</b>	21 and 22 January 2020	60 minutes	7:10pm	<20	41	Night 37	-3.5°/100m, 3.3m/s, 285 degrees	Birds (32), traffic (41), <b>WCC (&lt;20)</b>	No	12/02/2020
<b>R12</b>	21 and 22 January 2020	60 minutes	8:14pm	<20	59	Night 38	-3.5°/100m, 3.5m/s, 300 degrees	Trains (59), traffic (48), <b>WCC (&lt;20)</b>	No	12/02/2020
<b>R96</b>	21 and 22 January 2020	60 minutes	9:21pm	29	37	Night 38	-3.5°/100, 3.1m/s, 267 degrees	Insects (37), <b>WCC (26)</b>	No	12/02/2020
<b>R98</b>	21 and 22 January 2020	60 minutes	10:29pm	25	36	Night 38	+0.9°/100m, 1.2m/s, 209 degrees	Insects (33), residential (31), <b>WCC (22)</b>	No	12/02/2020
<b>R57</b>	21 and 22 January 2020	60 minutes	12:13am	<20	35	Night 35	+2.5°/100m, 2.2m/s, 350 degrees	Residential (27), dogs (35), <b>WCC (&lt;20)</b>	No	12/02/2020

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

**IA = Inaudible.**

**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	8	97.5	100.9	120.0	No	1/2/2020
	Blast Vibration	mm/s	Every Blast	8	0.10	0.20	10.0	No	1/2/2020
R98	Blast Noise	dB (Lin Peak)	Every Blast	8	101.5	110.5	120.0	No	1/2/2020
	Blast Vibration	mm/s	Every Blast	8	0.59	1.19	10.0	No	1/2/2020
R62	Blast Noise	dB (Lin Peak)	Every Blast	8	98.6	105.7	120.0	No	1/2/2020
	Blast Vibration	mm/s	Every Blast	8	0.42	1.13	10.0	No	1/2/2020
R92	Blast Noise	dB (Lin Peak)	Every Blast	8	97.9	105.0	120.0	No	1/2/2020
	Blast Vibration	mm/s	Every Blast	8	0.23	0.53	10.0	No	1/2/2020

## WERRIS CREEK COAL EPL – MONTHLY SUMMARY

