

**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:** September 2018

**Obtained Date:** 26/10/2018

**Publication Date:** 12/10/2018

**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	22/9/2018	5/10/2018	3.5	11.1	11.9	16.9
	Solid Particles	g/m <sup>2</sup> /month	Continuous	1	21/9/2018	28/9/2018	2.5	2.5	2.5	2.5
29	PM10	µg/m <sup>3</sup>	Every 6 days	5	22/9/2018	5/10/2018	0.6	18.9	13.3	47.7
	Solid Particles	g/m <sup>2</sup> /month	Continuous	1	21/9/2018	28/9/2018	2.3	2.3	2.3	2.3
30	PM10	µg/m <sup>3</sup>	Continuous	Continuous	30/9/2018	1/10/2018	5.1	15.8	13.7	64.0
	Solid Particles	g/m <sup>2</sup> /month	Continuous	1	21/9/2018	28/9/2018	1.7	1.7	1.7	1.7
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	-	-	-	-	-	-
14	Conductivity	µS/cm	Special Frequency 1	0	-	-	-	-	-	-
	Nitrate	mg/L	Special Frequency 1	0	-	-	-	-	-	-



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<b>EPL ID</b>	<b>Pollutant</b>	<b>Units of Measure</b>	<b>Monitoring Frequency</b>	<b>No. of Measurements for the Month</b>	<b>Date Sampled</b>	<b>Date Obtained</b>	<b>Min Value</b>	<b>Mean Value</b>	<b>Median Value</b>	<b>Max Value</b>
	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	-	-	-	-	-	-
23	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	-	-	-	-	-	-
	pH	pH	Special Frequency 2	0	-	-	-	-	-	-
	Phosphorus (Total)	mg/L	Special Frequency 2	0	-	-	-	-	-	-
24	Reactive Phosphorus	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	-	-	-	-	-	-	

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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	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	-	-	-	-	-	-
	Total Suspended Solids	mg/L	Special Frequency 2	0	-	-	-	-	-	-
26	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	-	-	-	-	-	-
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	-	-	-	-	-	-
	Cobalt (dissolved)	mg/L	Special Frequency 3	0	-	-	-	-	-	-



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<b>EPL ID</b>	<b>Pollutant</b>	<b>Units of Measure</b>	<b>Monitoring Frequency</b>	<b>No. of Measurements for the Month</b>	<b>Date Sampled</b>	<b>Date Obtained</b>	<b>Min Value</b>	<b>Mean Value</b>	<b>Median Value</b>	<b>Max Value</b>
	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	-	-	-	-	-	-
	Manganese (dissolved)	mg/L	Special Frequency 3	0	-	-	-	-	-	-
	Nickel (dissolved)	mg/L	Special Frequency 3	0	-	-	-	-	-	-

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

\*Dust gauge sample contaminated with glass. Broken funnel noted on field sheet.

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**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	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
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	-	-	-	-	50*	No
	Oil and Grease	mg/L	Special Frequency 1	0	-	-	-	-	10	No
	pH	pH	Special Frequency 1	0	-	-	-	-	6.5-8.5	No
33*	Electrical Conductivity	mg/L	Special Frequency 4	2	10/9/2018 21/9/2018	26/10/2018	1280	1290	2000	No
	Oil and Grease	mg/L	Special Frequency 3	0	-	-	-	-	10	No
	pH	pH	Special Frequency 4	2	10/9/2018 21/9/2018	26/10/2018	8.5	8.5	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
	Oil and Grease	mg/L	Special Frequency 3	0	-	-	-	-	10	No
	pH	pH	Special Frequency 4	0	-	-	-	-	9	No

\* EPL ID Point 33 is the point of discharge for discharge sampling

**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	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	-	-	-	-	-	-
27	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	-	-	-	-	-	-
	pH	pH	Every 3 Months	0	-	-	-	-	-	-
	Phosphorus (Total)	mg/L	Every 3 Months	0	-	-	-	-	-	-
17	Reactive Phosphorus	mg/L	Every 3 Months	0	-	-	-	-	-	-
	Total Suspended Solids	mg/L	Every 3 Months	0	-	-	-	-	-	-
	Conductivity	µS/cm	Every 6 Months	1	Dry	Dry	Dry	Dry	Dry	Dry
	Nitrate	mg/L	Every 6 Months	1	Dry	Dry	Dry	Dry	Dry	Dry
	Nitrogen (Total)	mg/L	Every 6 Months	1	Dry	Dry	Dry	Dry	Dry	Dry
	pH	pH	Every 6 Months	1	Dry	Dry	Dry	Dry	Dry	Dry
	Phosphorus (Total)	mg/L	Every 6 Months	1	Dry	Dry	Dry	Dry	Dry	Dry
Reactive Phosphorus	mg/L	Every 6 Months	1	Dry	Dry	Dry	Dry	Dry	Dry	
Standing Water Level	Metres	Every 6 Months	1	Dry	Dry	Dry	Dry	Dry	Dry	

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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
18	Conductivity	µS/cm	Every 6 Months	1	925	925	925	925	925	925
	Nitrate	mg/L	Every 6 Months	1	6.21	6.21	6.21	6.21	6.21	6.21
	Nitrogen (Total)	mg/L	Every 6 Months	1	6.8	6.8	6.8	6.8	6.8	6.8
	pH	pH	Every 6 Months	1	7.99	7.99	7.99	7.99	7.99	7.99
	Phosphorus (Total)	mg/L	Every 6 Months	1	0.02	0.02	0.02	0.02	0.02	0.02
	Reactive Phosphorus	mg/L	Every 6 Months	1	0.03	0.03	0.03	0.03	0.03	0.03
	Standing Water Level	Metres	Every 6 Months	1	50.1	50.1	50.1	50.1	50.1	50.1
19	Conductivity	µS/cm	Every 6 Months	1	2400	2400	2400	2400	2400	2400
	Nitrate	mg/L	Every 6 Months	1	16.4	16.4	16.4	16.4	16.4	16.4
	Nitrogen (Total)	mg/L	Every 6 Months	1	16.8	16.8	16.8	16.8	16.8	16.8
	pH	pH	Every 6 Months	1	7.94	7.94	7.94	7.94	7.94	7.94
	Phosphorus (Total)	mg/L	Every 6 Months	1	0.24	0.24	0.24	0.24	0.24	0.24
	Reactive Phosphorus	mg/L	Every 6 Months	1	0.27	0.27	0.27	0.27	0.27	0.27
	Standing Water Level	Metres	Every 6 Months	1	20.03	20.03	20.03	20.03	20.03	20.03
20	Conductivity	µS/cm	Every 6 Months	1	1010	1010	1010	1010	1010	1010
	Nitrate	mg/L	Every 6 Months	1	2.28	2.28	2.28	2.28	2.28	2.28
	Nitrogen (Total)	mg/L	Every 6 Months	1	3.2	3.2	3.2	3.2	3.2	3.2
	pH	pH	Every 6 Months	1	8.06	8.06	8.06	8.06	8.06	8.06
	Phosphorus (Total)	mg/L	Every 6 Months	1	0.08	0.08	0.08	0.08	0.08	0.08
	Reactive Phosphorus	mg/L	Every 6 Months	1	0.04	0.04	0.04	0.04	0.04	0.04
	Standing Water Level	Metres	Every 6 Months	1	17.78	17.78	17.78	17.78	17.78	17.78
21	Conductivity	µS/cm	Every 6 Months	1	2030	2030	2030	2030	2030	2030
	Nitrate	mg/L	Every 6 Months	1	0.91	0.91	0.91	0.91	0.91	0.91
	Nitrogen (Total)	mg/L	Every 6 Months	1	1.1	1.1	1.1	1.1	1.1	1.1
	pH	pH	Every 6 Months	1	7.74	7.74	7.74	7.74	7.74	7.74
	Phosphorus (Total)	mg/L	Every 6 Months	1	0.09	0.09	0.09	0.09	0.09	0.09
	Reactive Phosphorus	mg/L	Every 6 Months	1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	Standing Water Level	Metres	Every 6 Months	1	13.06	13.06	13.06	13.06	13.06	13.06



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22	Conductivity	µS/cm	Every 6 Months	1	TLTS	TLTS	TLTS	TLTS	TLTS	TLTS
	Nitrate	mg/L	Every 6 Months	1	TLTS	TLTS	TLTS	TLTS	TLTS	TLTS
	Nitrogen (Total)	mg/L	Every 6 Months	1	TLTS	TLTS	TLTS	TLTS	TLTS	TLTS
	pH	pH	Every 6 Months	1	TLTS	TLTS	TLTS	TLTS	TLTS	TLTS
	Phosphorus (Total)	mg/L	Every 6 Months	1	TLTS	TLTS	TLTS	TLTS	TLTS	TLTS
	Reactive Phosphorus	mg/L	Every 6 Months	1	TLTS	TLTS	TLTS	TLTS	TLTS	TLTS
	Standing Water Level	Metres	Every 6 Months	1	TLTS	TLTS	TLTS	TLTS	TLTS	TLTS

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					
R24	11/9/2018	60 minutes	13:40	N/A	37	Day 37	NA, 3.4m/s, 292 degrees.	Birds (36), traffic (30), WCC inaudible (<20)	No	26/10/2018
R12	11/9/2018	60 minutes	15:35	N/A	42	Day 38	NA, 2.1m/s, 293 degrees.	Traffic (40), birds (30), WCC inaudible (<20)	No	26/10/2018
R96	11/9/2018	60 minutes	12:35	N/A	35	Day 38	NA, 3.2m/s, 299 degrees.	Birds (35), traffic (25), WCC inaudible (<20)	No	26/10/2018
R98	11/9/2018	60 minutes	13:38	N/A	41	Day 36	NA, 3.4m/s, 292 degrees.	Birds and dogs (41), WCC barely audible (<20)	No	26/10/2018
R57	11/9/2018	60 minutes	15:25	N/A	42	Day 35	NA, 2.1m/s, 293 degrees.	Birds (38), traffic (38), trains (33), WCC inaudible (<20)	No	26/10/2018
R24	11/9/2018	60 minutes	19:00	28	44	Night 37	9.5°/100m, 2.5m/s, 3 degrees.	Traffic (44), WCC (25), crickets (22)	No	26/10/2018
R12	11/9/2018	60 minutes	22:10	<20	26	Night 38	11.5°/100m, 1.4m/s, 353 degrees.	Traffic (26), WCC inaudible (<20)	No	26/10/2018
R96	11/9/2018	60 minutes	19:00	<20	35	Night 38	9.5°/100m, 2.5m/s, 3 degrees.	Traffic (35), WCC inaudible (<20)	No	26/10/2018
R98	11/9/2018	60 minutes	20:10	32	31	Night 38	8.9°/100m, 2.4m/s, 358 degrees.	Traffic (29), WCC (27)	No	26/10/2018
R57	11/9/2018	60 minutes	22:00	35	37	Night 35	11.5°/100m, 1.4m/s, 353 degrees.	Traffic (36), trains (30), WCC (26)	No	26/10/2018

**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	17	100.61	108.9	120.0	No	1/10/2018
	Blast Vibration	mm/s	Every Blast	17	0.09	0.22	10.0	No	1/10/2018
R98	Blast Noise	dB (Lin Peak)	Every Blast	17	101.98	108.30	120.0	No	1/10/2018
	Blast Vibration	mm/s	Every Blast	17	0.51	0.93	10.0	No	1/10/2018
R62	Blast Noise	dB (Lin Peak)	Every Blast	17	98.90	107.40	120.0	No	1/10/2018
	Blast Vibration	mm/s	Every Blast	17	0.30	0.68	10.0	No	1/10/2018
R92	Blast Noise	dB (Lin Peak)	Every Blast	17	96.95	106.20	120.0	No	1/10/2018
	Blast Vibration	mm/s	Every Blast	17	0.18	0.54	10.0	No	1/10/2018

## WERRIS CREEK COAL EPL – MONTHLY SUMMARY

