

**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:** April 2018

**Obtained Date:** 4 May 2018

**Publication Date:** 21 May 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	19/4/2018	2/5/2018	5.8	12.2	9.6	21.5
	Solid Particles	g/m <sup>2</sup> /month	Continuous	1	20/4/2018	1/5/2018	0.5	0.5	0.5	0.5
29	PM10	µg/m <sup>3</sup>	Every 6 days	5	19/4/2018	2/5/2018	8.8	23.8	19.9	36.0
	Solid Particles	g/m <sup>2</sup> /month	Continuous	1	20/4/2018	1/5/2018	1.6	1.6	1.6	1.6
30	PM10	µg/m <sup>3</sup>	Continuous	Continuous	30/4/2018	1/5/2018	7.5	15.2	12.2	71.5
	Solid Particles	g/m <sup>2</sup> /month	Continuous	1	20/4/2018	1/5/2018	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	-	-	-	-	-	-
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>
	Cooper (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	-	-	-	-	-	-
	Cooper (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	-	-	-	-	-	-
	Cooper (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	-	-	-	-	-	-	

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



**WERRIS CREEK COAL EPL – MONTHLY SUMMARY**

**Table 2 - Pollutant Limits Apply**

<b>EPL ID</b>	<b>Pollutant</b>	<b>Units of Measure</b>	<b>Monitoring Frequency</b>	<b>No. of samples for the Month</b>	<b>Date Sampled</b>	<b>Date Obtained</b>	<b>Min Value</b>	<b>Max Value</b>	<b>100%ile Limit</b>	<b>Exceedance (Yes/No)</b>
<b>10</b>	<b>Total Suspended Solids</b>	<b>mg/L</b>	<b>Special Frequency 1</b>	<b>0</b>	-	-	-	-	<b>50*</b>	No
	<b>Oil and Grease</b>	<b>mg/L</b>	<b>Special Frequency 1</b>	<b>0</b>	-	-	-	-	<b>10</b>	No
	<b>pH</b>	<b>pH</b>	<b>Special Frequency 1</b>	<b>0</b>	-	-	-	-	<b>6.5-8.5</b>	No
<b>12</b>	<b>Total Suspended Solids</b>	<b>mg/L</b>	<b>Special Frequency 1</b>	<b>0</b>	-	-	-	-	<b>50*</b>	No
	<b>Oil and Grease</b>	<b>mg/L</b>	<b>Special Frequency 1</b>	<b>0</b>	-	-	-	-	<b>10</b>	No
	<b>pH</b>	<b>pH</b>	<b>Special Frequency 1</b>	<b>0</b>	-	-	-	-	<b>6.5-8.5</b>	No
<b>14</b>	<b>Total Suspended Solids</b>	<b>mg/L</b>	<b>Special Frequency 1</b>	<b>0</b>	-	-	-	-	<b>50*</b>	No
	<b>Oil and Grease</b>	<b>mg/L</b>	<b>Special Frequency 1</b>	<b>0</b>	-	-	-	-	<b>10</b>	No
	<b>pH</b>	<b>pH</b>	<b>Special Frequency 1</b>	<b>0</b>	-	-	-	-	<b>6.5-8.5</b>	No
<b>32</b>	<b>Total Suspended Solids</b>	<b>mg/L</b>	<b>Special Frequency 1</b>	<b>0</b>	-	-	-	-	<b>50*</b>	No
	<b>Oil and Grease</b>	<b>mg/L</b>	<b>Special Frequency 1</b>	<b>0</b>	-	-	-	-	<b>10</b>	No
	<b>pH</b>	<b>pH</b>	<b>Special Frequency 1</b>	<b>0</b>	-	-	-	-	<b>6.5-8.5</b>	No
<b>33</b>	<b>Electrical Conductivity</b>	<b>mg/L</b>	<b>Special Frequency 4</b>	<b>2</b>	04/04/2018 09/04/2018	04/04/2018 09/04/2018	1255	1509	<b>2000</b>	No
	<b>Oil and Grease</b>	<b>mg/L</b>	<b>Special Frequency 3</b>	<b>0</b>	-	-	-	-	<b>10</b>	No
	<b>pH</b>	<b>pH</b>	<b>Special Frequency 4</b>	<b>2</b>	04/04/2018 09/04/2018	04/04/2018 09/04/2018	8.22	8.31	<b>6.5-8.5</b>	No
<b>34</b>	<b>Electrical Conductivity</b>	<b>mg/L</b>	<b>Special Frequency 4</b>	<b>0</b>	-	-	-	-	<b>2000</b>	No
	<b>Oil and Grease</b>	<b>mg/L</b>	<b>Special Frequency 3</b>	<b>0</b>	-	-	-	-	<b>10</b>	No
	<b>pH</b>	<b>pH</b>	<b>Special Frequency 4</b>	<b>0</b>	-	-	-	-	<b>6.5-8.5</b>	No
<b>35</b>	<b>Electrical Conductivity</b>	<b>mg/L</b>	<b>Special Frequency 4</b>	<b>0</b>	-	-	-	-	<b>2000</b>	No
	<b>Oil and Grease</b>	<b>mg/L</b>	<b>Special Frequency 3</b>	<b>0</b>	-	-	-	-	<b>10</b>	No
	<b>pH</b>	<b>pH</b>	<b>Special Frequency 4</b>	<b>0</b>	-	-	-	-	<b>6.5-8.5</b>	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	-	-	-	-	-	-
	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	-	-	-	-	-	-
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	-	-	-	-	-	-

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



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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
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	-	-	-	-	-	-

**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	26 and 27/4/2018	60 minutes	16:15	N/A	IA	Day 37	NA, 4.8m/s, 178 degrees.	<b>WCC inaudible (&lt;20)</b> , Traffic (37), birds (25).	No	4/5/2018
R12	26 and 27/4/2018	60 minutes	7:10	N/A	IA	Day 38	NA, 4.8m/s, 178 degrees	<b>WCC inaudible (&lt;20)</b> , Birds & insects (42), traffic (40).	No	4/5/2018
R96	26 and 27/4/2018	60 minutes	7:25	N/A	IA	Day 38	NA, 2.5m/s, 166 degrees	<b>WCC inaudible (&lt;20)</b> , Traffic (35), birds (33).	No	4/5/2018
R98	26 and 27/4/2018	60 minutes	7:05	N/A	IA	Day 36	NA, 2.7m/s, 179 degrees	<b>WCC inaudible (&lt;20)</b> , Birds (36).	No	4/5/2018
R57	26 and 27/4/2018	60 minutes	16:05	N/A	IA	Day 35	NA, 4.9m/s, 173 degrees	<b>WCC inaudible (&lt;20)</b> , Traffic (42), birds & insects (32)	No	4/5/2018
R24	26 and 27/4/2018	60 minutes	21:45	<20	IA	Night 37	6.6°/100m, 3.1m/s, 164 degrees.	<b>WCC inaudible (&lt;20)</b> , Traffic (43),	No	4/5/2018
R12	26 and 27/4/2018	60 minutes	22:52	<20	IA	Night 38	2.3°/100m, 3.0m/s, 163 degrees.	<b>WCC inaudible (&lt;20)</b> , Traffic (39).	No	4/5/2018
R96	26 and 27/4/2018	60 minutes	19:00	<20	IA	Night 38	6.6°/100m, 2.4m/s, 213 degrees.	<b>WCC inaudible (&lt;20)</b> , Traffic (28), frogs (21).	No	4/5/2018
R98	26 and 27/4/2018	60 minutes	20:05	24	20	Night 38	7.0°/100m, 2.6m/s, 208 degrees.	<b>WCC (20)</b> , Insects (20), traffic (15).	No	4/5/2018
R57	26 and 27/4/2018	60 minutes	20:50	21	IA	Night 35	6.8°/100m, 2.7m/s, 195 degrees.	<b>WCC barely audible (&lt;20)</b> , Traffic (37), trains (37).	No	4/5/2018

**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	9	101.52	110.40		No	1/05/2018
	Blast Vibration	mm/s	Every Blast	9	0.09	0.18		No	1/05/2018
R98	Blast Noise	dB (Lin Peak)	Every Blast	9	99.61	105.80		No	1/05/2018
	Blast Vibration	mm/s	Every Blast	9	0.58	1.50		No	1/05/2018
R62	Blast Noise	dB (Lin Peak)	Every Blast	9	98.31	103.50		No	1/05/2018
	Blast Vibration	mm/s	Every Blast	9	0.24	0.42		No	1/05/2018
R92	Blast Noise	dB (Lin Peak)	Every Blast	9	98.73	102.50		No	1/05/2018
	Blast Vibration	mm/s	Every Blast	9	0.16	0.30		No	1/05/2018

**WERRIS CREEK COAL EPL – MONTHLY SUMMARY**

