

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: OCTOBER 2022 Obtained Date: 17/11/2022 Publication Date: 17/11/2022

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	31/10/2022	16/11/2022	2.4	3.9	3.9	5.5
28	Solid Particles	g/m²/month	Continuous	1	20/10/2022	15/11/2022	1.2	1.2	1.2	1.2
29	PM10	μg/m³	Every 6 days	5	31/10/2022	16/11/2022	3.5	6.5	6.2	10.5
29	Solid Particles	g/m²/month	Continuous	1	20/10/2022	15/11/2022	2.0	2.0	2.0	2.0
30	PM10	μg/m³	Continuous	Continuous	31/10/2022	01/11/2022	2.2	7.8	7.4	16.5
30	Solid Particles	g/m²/month	Continuous	1	20/10/2022	15/11/2022	1.1	1.1	1.1	1.1
	Conductivity	μS/cm	Special Frequency 1	6	18 & 26/10/2022	15/11/2022	350	425	365	570
	Nitrate	mg/L	Special Frequency 1	6	18 & 26/10/2022	15/11/2022	0.005	0.006	0.006	0.007
10	Nitrogen (Total)	mg/L	Special Frequency 1	6	18 & 26/10/2022	15/11/2022	0.30	0.38	0.35	0.50
	Phosphorus (Total)	mg/L	Special Frequency 1	6	18 & 26/10/2022	15/11/2022	0.07	0.12	0.08	0.20
	Reactive Phosphorus	mg/L	Special Frequency 1	6	18 & 26/10/2022	15/11/2022	0.05	0.09	0.05	0.18

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	4	18 & 26/11/2022	15/11/2022	390	440	440	490
	Nitrate	mg/L	Special Frequency 1	4	18 & 26/11/2022	15/11/2022	<0.005	0.91	1.30	1.40
12	Nitrogen (Total)	mg/L	Special Frequency 1	4	18 & 26/11/2022	15/11/2022	0.2	1.1	1.0	2.1
	Phosphorus (Total)	mg/L	Special Frequency 1	4	18 & 26/11/2022	15/11/2022	0.07	0.08	0.08	0.08
	Reactive Phosphorus	mg/L	Special Frequency 1	4	18 & 26/11/2022	15/11/2022	0.01	0.02	0.01	0.03
	Conductivity	μS/cm	Special Frequency 1	7	12, 18, 28 & 29/20/2022	15/11/2022	100	167	190	210
	Nitrate	mg/L	Special Frequency 1	7	12, 18, 28 & 29/20/2022	15/11/2022	<0.005	0.10	0.06	0.21
14	Nitrogen (Total)	mg/L	Special Frequency 1	7	12, 18, 28 & 29/20/2022	15/11/2022	0.1	0.3	0.2	0.7
	Phosphorus (Total)	mg/L	Special Frequency 1	7	12, 18, 28 & 29/20/2022	15/11/2022	0.20	0.37	0.30	0.60
	Reactive Phosphorus	mg/L	Special Frequency 1	7	12, 18, 28 & 29/20/2022	15/11/2022	0.23	0.37	0.33	0.52
	Conductivity	μS/cm	Special Frequency 1	0*	-	-	1	-	-	-
	Nitrate	mg/L	Special Frequency 1	0*	-	-	-	-	-	-
	Nitrogen (Total)	mg/L	Special Frequency 1	0*	-	-	-	-	-	-
32	Oil and Grease	mg/L	Special Frequency 1	0*	-	-	-	-	-	-
	рН	рН	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
	Total Suspended Solids	mg/L	Special Frequency 1	0*	-	-	-	-	-	-
	Conductivity	μS/cm	Special Frequency 2	4	12, 18, 28 & 29/10/2022	15/11/2022	390	513	480	700
	Nitrate	mg/L	Special Frequency 2	4	12, 18, 28 & 29/10/2022	15/11/2022	0.53	0.82	0.68	1.40
	Nitrogen (Total)	mg/L	Special Frequency 2	4	12, 18, 28 & 29/10/2022	15/11/2022	0.90	1.18	1.00	1.80
23	Oil and Grease	mg/L	Special Frequency 2	4	12, 18, 28 & 29/10/2022	15/11/2022	<5	<5	<5	<5
23	рН	рН	Special Frequency 2	4	12, 18, 28 & 29/10/2022	15/11/2022	8.10	8.17	8.17	8.23
	Phosphorus (Total)	mg/L	Special Frequency 2	4	12, 18, 28 & 29/10/2022	15/11/2022	0.10	0.13	0.10	0.20
	Reactive Phosphorus	mg/L	Special Frequency 2	4	12, 18, 28 & 29/10/2022	15/11/2022	0.13	0.14	0.14	0.16
	Total Suspended Solids	mg/L	Special Frequency 2	4	12, 18, 28 & 29/10/2022	15/11/2022	9	12	12	16
	Conductivity	μS/cm	Special Frequency 2	4	12, 18, 28 & 29/10/2022	15/11/2022	340	560	530	840
24	Nitrate	mg/L	Special Frequency 2	4	12, 18, 28 & 29/10/2022	15/11/2022	0.52	0.97	0.84	1.70
24	Nitrogen (Total)	mg/L	Special Frequency 2	4	12, 18, 28 & 29/10/2022	15/11/2022	0.90	1.35	1.20	2.10
	Oil and Grease	mg/L	Special Frequency 2	4	12, 18, 28 & 29/10/2022	15/11/2022	<5	<5	<5	<5

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	4	12, 18, 28 & 29/10/2022	15/11/2022	7.99	8.12	8.11	8.25
	Phosphorus (Total)	mg/L	Special Frequency 2	4	12, 18, 28 & 29/10/2022	15/11/2022	0.20	0.28	0.25	0.40
	Reactive Phosphorus	mg/L	Special Frequency 2	4	12, 18, 28 & 29/10/2022	15/11/2022	0.15	0.23	0.20	0.37
	Total Suspended Solids	mg/L	Special Frequency 2	4	12, 18, 28 & 29/10/2022	15/11/2022	10	28	20	63
	Conductivity	μS/cm	Special Frequency 2	2	18 & 26/10/2022	15/11/2022	290	330	330	370
	Nitrate	mg/L	Special Frequency 2	2	18 & 26/10/2022	15/11/2022	0.24	0.29	0.29	0.33
	Nitrogen (Total)	mg/L	Special Frequency 2	2	18 & 26/10/2022	15/11/2022	0.80	0.90	0.90	1.00
25	Oil and Grease	mg/L	Special Frequency 2	2	18 & 26/10/2022	15/11/2022	<5	<5	<5	<5
25	рН	рН	Special Frequency 2	2	18 & 26/10/2022	15/11/2022	7.65	7.72	7.72	7.79
	Phosphorus (Total)	mg/L	Special Frequency 2	2	18 & 26/10/2022	15/11/2022	0.10	0.15	0.15	0.20
	Reactive Phosphorus	mg/L	Special Frequency 2	2	18 & 26/10/2022	15/11/2022	0.11	0.13	0.13	0.14
	Total Suspended Solids	mg/L	Special Frequency 2	2	18 & 26/10/2022	15/11/2022	8	8	8	8
26	Conductivity	μS/cm	Special Frequency 2	2	18 & 26/10/2022	15/11/2022	320	353	330	480

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
	Nitrate	mg/L	Special Frequency 2	2	18 & 26/10/2022	15/11/2022	0.28	0.30	0.29	0.40
	Nitrogen (Total)	mg/L	Special Frequency 2	2	18 & 26/10/2022	15/11/2022	0.80	0.88	0.90	1.00
	Oil and Grease	mg/L	Special Frequency 2	2	18 & 26/10/2022	15/11/2022	<5	<5	<5	<5
	рН	рН	Special Frequency 2	2	18 & 26/10/2022	15/11/2022	7.66	7.70	7.70	7.79
	Phosphorus (Total)	mg/L	Special Frequency 2	2	18 & 26/10/2022	15/11/2022	0.10	0.15	0.15	0.20
	Reactive Phosphorus	mg/L	Special Frequency 2	2	18 & 26/10/2022	15/11/2022	0.13	0.13	0.13	0.16
	Total Suspended Solids	mg/L	Special Frequency 2	2	18 & 26/10/2022	15/11/2022	18	12	8	20
	Aluminium (dissolved)	mg/L	Special Frequency 3	0*	-	-	-	-	-	-
	Arsenic (dissolved)	mg/L	Special Frequency 3	0*	-	-	1	-	-	-
	Barium (dissolved)	mg/L	Special Frequency 3	0*	-	-	1	-	-	-
	Beryllium (dissolved)	mg/L	Special Frequency 3	0*	-	-	-	-	-	-
	BOD	mg/L	Special Frequency 3	0*	-	-	-	-	-	-
33	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*	-	-	-	-	-	1
	Sodium	mg/L	Special Frequency 3	0*	-	-	-	-	-	1
	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*	-	-	-	-	-	1
	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*	-	-	-	-	-	-
34	Cobalt (dissolved)	mg/L	Special Frequency 3	0*	-	-	-	-	-	-
34	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*	-	-	-	-	-	-

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
	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*	-	-	-	-	-	-
	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*	-	-	-	-	-	-
35	Iron (dissolved)	mg/L	Special Frequency 3	0*	-	-	-	-	-	-
35	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*	-	-	-	-	-	-

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
	Total Suspended Solids	mg/L	Special Frequency 1	6	18 & 26/10/2022	15/11/2022	15	23	50~	No	
10	Oil and Grease	mg/L	Special Frequency 1	6	18 & 26/10/2022	15/11/2022	<5	<5	10	No	
	рН	рН	Special Frequency 1	6	18 & 26/10/2022	15/11/2022	7.68	8.04	6.5-8.5	No	
	Total Suspended Solids	mg/L	Special Frequency 1	4	18 & 26/10/2022	15/11/2022	18	25	50~	No	
12	Oil and Grease	mg/L	Special Frequency 1	4	18 & 26/10/2022	15/11/2022	<5	<5	10	No	
	рН	рН	Special Frequency 1	4	18 & 26/10/2022	15/11/2022	7.56	8.11	6.5-8.5	No	
	Total Suspended Solids	mg/L	Special Frequency 1	7	12, 18, 28 & 29/10/2022	15/11/2022	13	67	50~	No	Sample from the 12th taken after approx.
14	Oil and Grease	mg/L	Special Frequency 1	7	12, 18, 28 & 29/10/2022	15/11/2022	<5	<5	10	No	52mm of rain, therefore limit for TSS does not
	рН	рН	Special Frequency 1	7	12, 18, 28 & 29/10/2022	15/11/2022	6.78	7.67	6.5-8.5	No	apply. The 18th, 28th and 29th were controlled releases.
32	Total Suspended Solids	mg/L	Special Frequency 1	0*	-	-	-	-	2000	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
	Oil and Grease	mg/L	Special Frequency 1	0*	-	-	-	-	10	No	
	рН	рН	Special Frequency 1	0*	-	-	-	-	9	No	
224	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	
24	Electrical Conductivity	μS/cm	Special Frequency 4	0*	-	-	-	1	2000	No	
34	Oil and Grease	mg/L	Special Frequency 3	0*	-	-	-	-	10	No	
	рН	рН	Special Frequency 4	0*	-	-	-	-	9	No	
25	Electrical Conductivity	μS/cm	Special Frequency 4	0*	-	-	-	-	2000	No	
35	Oil and Grease	mg/L	Special Frequency 3	0*	-	-	-	-	10	No	
	рН	рН	Special Frequency 4	0*	-	-	-	-	9	No	

 $^{^{\}sim}$ Total Suspended Solids permitted to exceed 50mg/L if 5 day rainfall is greater than 39.2mm prior to discharge

- 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 Point 33 is the point of discharge for discharge sampling

^{*}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.

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
	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	0*	-	-	-	-	-	-
	Nitrate	mg/L	Every 6 Months	0*	-	-	-	-	-	-
17	Nitrogen (Total)	mg/L	Every 6 Months	0*	-	-	-	-	-	-
1/	рН	рН	Every 6 Months	0*	-	-	-	-	-	-
	Phosphorus (Total)	mg/L	Every 6 Months	0*	-	-	-	-	-	-
	Reactive Phosphorus	mg/L	Every 6 Months	0*	-	-	-	-	-	-

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	0*	-	-	-	-	-	-
	Conductivity	μS/cm	Every 6 Months	0*	-	-	-	-	-	-
	Nitrate	mg/L	Every 6 Months	0*	-	-	-	-	-	-
	Nitrogen (Total)	mg/L	Every 6 Months	0*	-	-	-	-	-	-
18	pН	рН	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*	-	-	-	-	-	-
	Conductivity	μS/cm	Every 6 Months	0*	-	-	-	-	-	-
	Nitrate	mg/L	Every 6 Months	0*	-	-	-	-	-	-
	Nitrogen (Total)	mg/L	Every 6 Months	0*	-	-	-	-	-	-
19	рН	рН	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*	-	-	-	-	-	-
	Conductivity	μS/cm	Every 6 Months	0*	-	-	-	-	-	-
	Nitrate	mg/L	Every 6 Months	0*	-	-	-	-	-	-
	Nitrogen (Total)	mg/L	Every 6 Months	0*	-	-	-	-	-	-
20	рН	рН	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*	-	-	-	-	-	-
	Conductivity	μS/cm	Every 6 Months	0*	-	-	-	-	-	-
	Nitrate	mg/L	Every 6 Months	0*	-	-	-	-	-	-
21	Nitrogen (Total)	mg/L	Every 6 Months	0*	-	-	-	-	-	-
	pH	рН	Every 6 Months	0*	-	-	-	-	-	-
	Phosphorus (Total)	mg/L	Every 6 Months	0*	-	-	-	-	-	-

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	0*	1	-	-	-	-	-
	Standing Water Level	Metres	Every 6 Months	0*	ı	-	-	-	-	-
	Conductivity	μS/cm	Every 6 Months	0*	-	-	-	-	-	-
	Nitrate	mg/L	Every 6 Months	0*	-	-	-	-	-	-
	Nitrogen (Total)	mg/L	Every 6 Months	0*	-	-	-	-	-	-
22	рН	рН	Every 6 Months	0*	-	-	-	-	-	-
	Phosphorus (Total)	mg/L	Every 6 Months	0*	-	-	-	-	-	-
	Reactive Phosphorus	mg/L	Every 6 Months	0*	- 1	-	-	-	-	-
	Standing Water Level	Metres	Every 6 Months	0*	1	-	-	-	-	-

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.

Table 4 – Monitoring (Noise – Limits Apply)

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	26 October 2022	60 minutes	11:54am	N/A	51	Day 37	4.7 / 286	Traffic (51), birds (40), insects (28), WCC (<20)	No	17/11/2022
R12	26 October 2022	60 minutes	1:50pm	N/A	47	Day 38	6.8 / 284	Traffic (46), birds (39), insects (34), wind (32), WCC (<20)	No	17/11/2022
R96	26 October 2022	60 minutes	2:58pm	N/A	44	Day 38	5.3 / 277	Birds (43), wind (36), WCC (23)	No	17/11/2022
R98	26 October 2022	60 minutes	4:06pm	N/A	45	Day 35	6.2 / 285	Birds (44), wind (38), WCC (24)	No	17/11/2022
R57	26 October 2022	60 minutes	2:42pm	N/A	50	Day 35	2.3 / 305	Traffic (49), birds (42), Crawfords ² (30), insects (27), WCC (<20)	No	17/11/2022
R24	26 October 2022	60 minutes	7:03pm	<20	43	Night 37	Lapse / 2.7 / 165	Traffic (43), frogs (32), insects (22), WCC (<20)	No	17/11/2022
R12	26 October 2022	60 minutes	11:56pm	<20	41	Night 38	Lapse / 2.9 / 317	Traffic (41), insects (28), frogs (27), WCC (<20)	No	17/11/2022
R96	26 October 2022	60 minutes	10:44pm	35	39	Night 37	Lapse / 3.7 / 312	Frogs (37), WCC (32) , traffic (30), insects (24)	No	17/11/2022
R98	26 October 2022	60 minutes	9:39pm	39	43	Night 35	Lapse / 5.1 / 285	Frogs (42), WCC (35) , insects (24)	No	17/11/2022
R57	26 October 2022	60 minutes	7:47pm	33	43	Night 35	Lapse / 6.2 / 276	Residential (45), traffic (36), frogs (35), wind (32), insects (29), WCC (29)	No	17/11/2022

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

Table 5 – Monitoring (Blasts – Limits Apply)

Location	Parameter	Units of	Frequency	No. of Blasts	Average	Max	100%ile	(Potential) Non-	Date
		Measure	rrequeries	for the Month	Value	Value	Limit	compliance /breach	Obtained
R11	Blast Noise	dB (Lin Peak)	Every Blast	8	101.1	110.6	120.0	No	01/11/2022
	Blast Vibration	mm/s	Every Blast	8	0.08	0.15	10.0	No	01/11/2022
R98	Blast Noise	dB (Lin Peak)	Every Blast	8	99.9	105.3	120.0	No	01/11/2022
	Blast Vibration	mm/s	Every Blast	8	0.57	1.21	10.0	No	01/11/2022
R62	Blast Noise	dB (Lin Peak)	Every Blast	8	100.3	110.7	120.0	No	01/11/2022
	Blast Vibration	mm/s	Every Blast	8	0.41	0.90	10.0	No	01/11/2022
R92	Blast Noise	dB (Lin Peak)	Every Blast	8	94.6	102.7	120.0	No	01/11/2022
	Blast Vibration	mm/s	Every Blast	8	0.27	0.52	10.0	No	01/11/2022



