

Site Information

EPL No.: 12290

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

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: February 2019

Obtained Date: 5/4/2019

Publication Date: 12/4/2019

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/m³	Every 6 days	5	25/2/2019	11/3/2019	9.5	52.2	12.9	192.0
20	Solid Particles	g/m²/month	Continuous	1	19/2/2019	26/2/2019	1.6	1.6	1.6	1.6
29	PM10	µg/m³	Every 6 days	5	25/2/2019	11/3/2019	20.0	78.7	40.9	213.0
29	Solid Particles	g/m²/month	Continuous	1	19/2/2019	26/2/2019	1.3	1.3	1.3	1.3
30	PM10	μg/m³	Continuous	Continuous	28/2/2019	1/3/2019	7.2	24.2	19.6	159.2
50	Solid Particles	g/m²/month	Continuous	1	19/2/2019	26/2/2019	1.4	1.4	1.4	1.4
	Conductivity	μS/cm	Special Frequency 1	0	-	-	-	-	-	-
	Nitrate	mg/L	Special Frequency 1	0	-	-	-	-	-	-
10	Nitrogen (Total)	mg/L	Special Frequency 1	0	-	-	-	-	-	-
	Phosphorus (Total)	mg/L	Special Frequency 1	0	-	-	-	-	-	-
	Reactive Phosphorus	mg/L	Special Frequency 1	0	-	-	-	-	-	-
	Conductivity	μS/cm	Special Frequency 1	0	-	-	-	-	-	-
	Nitrate	mg/L	Special Frequency 1	0	-	-	-	-	-	-
12	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	-	-	-	-	-	-
14	Nitrate	mg/L	Special Frequency 1	0	-	-	-	-	-	-



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
	Nitrogen (Total)	mg/L	Special Frequency 1	0	-	-	-	-	-	-
	Phosphorus (Total)	mg/L	Special Frequency 1	0	-	-	-	-	-	-
	Reactive Phosphorus	mg/L	Special Frequency 1	0	-	-	-	-	-	-
	Conductivity	μS/cm	Special Frequency 1	0	-	-	-	I	-	-
	Nitrate	mg/L	Special Frequency 1	0	-	-	-	-	-	-
	Nitrogen (Total)	mg/L	Special Frequency 1	0	-	-	-	-	-	-
	Oil and Grease	mg/L	Special Frequency 1	0	-	-	-	-	-	-
32	рН	рН	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	-	-	-	-	-	-
	Conductivity	μS/cm	Special Frequency 2	0	-	-	-	I	-	-
	Nitrate	mg/L	Special Frequency 2	0	-	-	-	-	-	-
	Nitrogen (Total)	mg/L	Special Frequency 2	0	-	-	-	-	-	-
	Oil and Grease	mg/L	Special Frequency 2	0	-	-	-	-	-	-
23	рН	рН	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	-	-	-	-	-	-
	Conductivity	μS/cm	Special Frequency 2	0	-	-	-	-	-	-
	Nitrate	mg/L	Special Frequency 2	0	-	-	-	-	-	-
	Nitrogen (Total)	mg/L	Special Frequency 2	0	-	-	-	-	-	-
24	Oil and Grease	mg/L	Special Frequency 2	0	-	-	-	-	-	-
	рН	рН	Special Frequency 2	0	-	-	-	-	-	-
	Phosphorus (Total)	mg/L	Special Frequency 2	0	-	-	-	-	-	-
	Reactive Phosphorus	mg/L	Special Frequency 2	0	-	-	-	-	-	-



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	-	-	-	-	-	-
	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	-	-	-	-	-	-
25	рН	рН	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	-	-	-	-	-	-
	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	-	-	-	-	-	-
26	рН	рН	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	-	-	-	-	-	-
	Aluminium (dissolved)	mg/L	Special Frequency 3	0	-	-	-	-	-	-
	Arsenic (dissolved)	mg/L	Special Frequency 3	0	-	-	-	-	-	-
33*	Barium (dissolved)	mg/L	Special Frequency 3	0	-	-	-	-	-	-
55"	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	-	-	-	-	-	-



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
	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	-	-	-	-	-	-
	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	-	-	-	-	-	-
34	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 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	-	-	-	-	-	-
	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	-	-	-	-	-	-
35	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	-	-	-	-	-	-



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	-	-	-	-	-	-

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

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)
	Total Suspended Solids	mg/L	Special Frequency 1	0	-	-	-	-	50*	No
10	Oil and Grease	mg/L	Special Frequency 1	0	-	-	-	-	10	No
	рН	рН	Special Frequency 1	0	-	-	-	-	6.5-8.5	No
	Total Suspended Solids	mg/L	Special Frequency 1	0	-	-	-	-	50*	No
12	Oil and Grease	mg/L	Special Frequency 1	0	-	-	-	-	10	No
	рН	рН	Special Frequency 1	0	-	-	-	-	6.5-8.5	No
	Total Suspended Solids	mg/L	Special Frequency 1	0	-	-	-	-	50*	No
14	Oil and Grease	mg/L	Special Frequency 1	0	-	-	-	-	10	No
	рН	рН	Special Frequency 1	0	-	-	-	-	6.5-8.5	No
	Total Suspended Solids	mg/L	Special Frequency 1	0	-	-	-	-	50*	No
32	Oil and Grease	mg/L	Special Frequency 1	0	-	-	-	-	10	No
	рН	рН	Special Frequency 1	0	-	-	-	-	6.5-8.5	No
	Electrical Conductivity	mg/L	Special Frequency 4	1	15/2/2019	1/3/2019	1230	1230	2000	No
33*	Oil and Grease	mg/L	Special Frequency 3	0	-	-	-	-	10	No
	рН	рН	Special Frequency 4	1	15/2/2019	1/3/2019	8.1	8.1	9	No
	Electrical Conductivity	mg/L	Special Frequency 4	0	-	-	-	-	2000	No
34	Oil and Grease	mg/L	Special Frequency 3	0	-	-	-	-	10	No
	рН	рН	Special Frequency 4	0	-	-	-	-	9	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)
	Electrical Conductivity	mg/L	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

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

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	1	11/2/2019	19/2/2019	1040	1040	1040	1040
	Nitrate	mg/L	Every 3 Months	1	11/2/2019	19/2/2019	0.15	0.15	0.15	0.15
	Nitrogen (Total)	mg/L	Every 3 Months	1	11/2/2019	19/2/2019	0.4	0.4	0.4	0.4
	Oil and Grease	mg/L	Every 3 Months	1	11/2/2019	19/2/2019	<5	<5	<5	<5
16	рН	рН	Every 3 Months	1	11/2/2019	19/2/2019	7.67	7.67	7.67	7.67
	Phosphorus (Total)	mg/L	Every 3 Months	1	11/2/2019	19/2/2019	0.04	0.04	0.04	0.04
	Reactive Phosphorus	mg/L	Every 3 Months	1	11/2/2019	19/2/2019	<0.01	<0.01	<0.01	<0.01
	Total Suspended Solids	mg/L	Every 3 Months	1	11/2/2019	19/2/2019	<5	<5	<5	<5
	Conductivity	μS/cm	Every 3 Months	1	11/2/2019	19/2/2019	1100	1100	1100	1100
	Nitrate	mg/L	Every 3 Months	1	11/2/2019	19/2/2019	0.77	0.77	0.77	0.77
	Nitrogen (Total)	mg/L	Every 3 Months	1	11/2/2019	19/2/2019	1.0	1.0	1.0	1.0
27	Oil and Grease	mg/L	Every 3 Months	1	11/2/2019	19/2/2019	<5	<5	<5	<5
	рН	рН	Every 3 Months	1	11/2/2019	19/2/2019	7.97	7.97	7.97	7.97
	Phosphorus (Total)	mg/L	Every 3 Months	1	11/2/2019	19/2/2019	0.24	0.24	0.24	0.24
	Reactive Phosphorus	mg/L	Every 3 Months	1	11/2/2019	19/2/2019	<0.01	<0.01	<0.01	<0.01

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
	Total Suspended Solids	mg/L	Every 3 Months	1	11/2/2019	19/2/2019	11	11	11	11
	Conductivity	μS/cm	Every 6 Months	0	-	-	-	-	-	-
	Nitrate	mg/L	Every 6 Months	0	-	-	-	-	-	-
	Nitrogen (Total)	mg/L	Every 6 Months	0	-	-	-	-	-	-
17	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	-	-	-	-	-	-
18	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	-	-	-	-	-	-
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	-	-	-	-	-	-
20	Nitrogen (Total)	mg/L	Every 6 Months	0	-	-	-	-	-	-
	рН	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	-	-	-	-	-	-
	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	-	-	-	-	-	-
21	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	-	-	-	-	-	-
22	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	-	-	-	-	-	-

TLTS- Too low to sample



Table 4 – Monitoring (Noise – Limits Apply)

Location	Date	Measurement Period	Start Time		ed levels – B(A)	Limit(s)	Weather (inversion	Observations	(Potential) Non-	Date Obtained
		Pendu		LA1, 1 Minute	LAeq, 15 Minute		oC/100m, wind m/s & °)		compliance /breach	Obtained
R24	11/2/2019	60 minutes	2:27 pm	N/A	44	Day 37	NA, 6.0m/s, 286 degrees	Wind (40), birds (39), traffic (35), WCC (<20)	No	5/4/2019
R12	12/2/2019	60 minutes	7:25 am	N/A	43	Day 38	NA, 1.7m/s, 331 degrees	Insects (41), traffic (37), WCC (<20)	No	5/4/2019
R96	11/2/2019	60 minutes	12:43 pm	N/A	43	Day 38	NA, 5.9m/s, 304 degrees	Wind (41), traffic (35), insects (30), WCC (23)	No	5/4/2019
R98	11/2/2019	60 minutes	1:50 pm	N/A	43	Day 36	NA, 5.2m/s, 317 degrees	Wind (47), trains (40), WCC (22)	No	5/4/2019
R57	12/2/2019	60 minutes	7:53 am	N/A	49	Day 35	NA, 2.4m/s, 353 degrees	Traffic (48), birds (40), WCC (<20)	No	5/4/2019
R24	11/2/2019	60 minutes	7:42 pm	<20	41	Night 37	0.6°/100m, 4.3m/s, 279 degrees.	Traffic (41), WCC (<20)	No	5/4/2019
R12	11/2/2019	60 minutes	9:41 pm	<20	40	Night 38	5.6°/100m, 2.8m/s, 322 degrees.	Traffic (37), crickets (36), plane (23), WCC (<20)	No	5/4/2019
R96	11/2/2019	60 minutes	7:00 pm	24	39	Night 38	0.5°/100m, 5.3m/s, 276 degrees.	Train (37), traffic (33), WCC (22)	No	5/4/2019
R98	11/2/2019	60 minutes	8:10 pm	27	50	Night 38	1.6º/100m, 3.5m/s, 274 degrees.	Birds (50), Insects (28), WCC (24)	No	5/4/2019
R57	11/2/2019	60 minutes	10:05 pm	28	37	Night 35	6.5º/100m, 2.5m/s, 355 degrees.	Insects (34), traffic (33), WCC (24)	No	5/4/2019

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 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	12	102.0	109.3	120.0	No	1/3/2019
	Blast Vibration	mm/s	Every Blast	12	0.14	0.36	10.0	No	1/3/2019
R98	Blast Noise	dB (Lin Peak)	Every Blast	12	99.6	107.3	120.0	No	1/3/2019
	Blast Vibration	mm/s	Every Blast	12	0.75	1.55	10.0	No	1/3/2019
R62	Blast Noise	dB (Lin Peak)	Every Blast	12	102.5	112.1	120.0	No	1/3/2019
	Blast Vibration	mm/s	Every Blast	12	0.41	0.89	10.0	No	1/3/2019
R92	Blast Noise	dB (Lin Peak)	Every Blast	12	100.8	106.3	120.0	No	1/3/2019
	Blast Vibration	mm/s	Every Blast	12	0.25	0.39	10.0	No	1/3/2019



