

AuS-10 Rhyolite - Licence number 12323

Dam 1 - SB1 - EPL Point 1
Licence Discharge Point 1

Guidance range		Range - 6.5 - 8.5	<1500us/cm			<30 mg/l	20	10 mg/l		
Month	Number of Samples	pH	Electrical Conductivity	Turbidity	Total Dissolved Solids	Total Suspend Solids	Oxygen demand	Oil/Grease	Volume Discharged - KL	Comment
Jul-2018	0									Nil Discharge
Aug-2018	0									Nil Discharge
Sep-2018	0									Nil Discharge
Oct-2018	0									Nil Discharge
Nov-2018	0									Nil Discharge
Dec-2018	0									Nil Discharge
Jan-2019										
Feb-2019										
Mar-2019										
Apr-2019										
May-2019										
Jun-2019										
Total		0	0	0	0	0	0	0		
Mean		#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!		
Lowest		0.00	0.00	0.00	0.00	0.00	0.00	0.00		
Highest		0.00	0.00	0.00	0.00	0.00	0.00	0.00		

EPL POINT 2 Range - 6.5 - 8.5

Upstream Location AQW-1

Month	Number of Samples	pH	Electrical Conductivity	Turbidity	Total Dissolved Solids	Total Suspend Solids	Oxygen demand	Oil/Grease	Volume Discharged - KL	Comment
Jul-2018	1	7.6	652	1.2	330	<5	<2	<5		Nil Discharge
Aug-2018	1	6.5	619	1.3	398	<5	<2	<5		Nil Discharge
Sep-2018	1	8.1	704	2.1	359	<5	<2	<5		Nil Discharge
Oct-2018	1	8.0	601	1.3	347	<5	<2	<5		Nil Discharge
Nov-2018	1	8.5	727	1.7	408	<5	2	<5		Nil Discharge
Dec-2018	1	8.8	232	162	188	162	2	<5		Nil Discharge
Jan-2019										
Feb-2019										
Mar-2019										
Apr-2019										
May-2019										
Jun-2019										
Total		47.5	3535	169.6	2030	162	4	0		
Mean		3.96	294.58	14.13	169.17	13.50	0.33	0.00		
Lowest		6.50	589.17	28.27	338.33	162.00	2.00	#DIV/0!		
Highest		8.80	727.00	162.00	408.00	162.00	2.00	0.00		

EPL Point 3
COXS RIVER LOWER CROSSING 6/7/2011 - AQW3

Month	Number of Samples	pH	Electrical Conductivity	Turbidity	Total Dissolved Solids	Total Suspend Solids	Oxygen demand	Oil/Grease	Volume Discharged - KL	Comment
Jul-2018	1	7.8	653	1.2	328	<5	<2	<5		Nil Discharge
Aug-2018	1	7.2	607	1.2	388	<5	<2	<5		Nil Discharge
Sep-2018	1	7.5	575	1.8	695	<5	<2	<5		Nil Discharge
Oct-2018	1	7.8	611	1.2	327	<5	4	<5		Nil Discharge
Nov-2018	1	8.6	715	1.1	410	<5	2	<5		Nil Discharge
Dec-2018	1	7.8	239	168	255	120	2	<5		Nil Discharge
Jan-2019										
Feb-2019										
Mar-2019										
Apr-2019										
May-2019										
Jun-2019										
Total		38.9	2747	173.3	2075	120	8	0		
Mean		3.24	228.92	14.44	172.92	10.00	0.67	0.00		
Lowest		7.20	566.67	29.08	400.50	120.00	2.00	#DIV/0!	#DIV/0!	0.00
Highest		8.60	715.00	168.00	695.00	120.00	4.00	0.00		0.00

Dust Monitoring **EPL Point 4**

Month	Number of Samples	Sawmill	Insoluble Solids	Combustible Matter	Ash
Jul-2018	continuous	Sawmill	0.20	0.2	<0.1
Aug-2018	continuous	Sawmill	0.90	0.3	0.6
Sep-2018	continuous	Sawmill	1.00	0.4	0.6
Oct-2018	continuous	Sawmill	3.70	1.8	1.9
Nov-2018	continuous	Sawmill	2.50	0.6	1.9
Dec-2018	continuous	Sawmill	3.70	0.7	3.0
Jan-2019	continuous	Sawmill			
Feb-2019	continuous	Sawmill			
Mar-2019	continuous	Sawmill			
Apr-2019	continuous	Sawmill			
May-2019	continuous	Sawmill			
Jun-2019	continuous	Sawmill			
Mean			12	4	8
Lowest			2.00	0.67	1.60
Highest			3.7	1.8	3

Dust Monitoring **EPL Point 5**

Month	Number of Samples	Baners Lane	Insoluble Solids	Combustible Matter	Ash
Jul-2018	continuous	Baners Lane	0.2	0.2	<0.1
Aug-2018	continuous	Baners Lane	1.1	0.2	0.9
Sep-2018	continuous	Baners Lane	0.4	0.2	0.2
Oct-2018	continuous	Baners Lane	0.9	0.8	0.1
Nov-2018	continuous	Baners Lane	0.90	0.3	0.6
Dec-2018	continuous	Baners Lane	1.60	0.5	1.1
Jan-2019	continuous	Baners Lane			
Feb-2019	continuous	Baners Lane			
Mar-2019	continuous	Baners Lane			
Apr-2019	continuous	Baners Lane			
May-2019	continuous	Baners Lane			
Jun-2019	continuous	Baners Lane			
Mean			5.1	2.2	2.9
Lowest			0.85	0.37	0.58
Highest			1.6	0.8	1.1

Dust Monitoring **EPL Point 6**

Month	Number of Samples	Bald Hill	Insoluble Solids	Combustible Matter	Ash
Jul-2018	continuous	Bald Hill	<0.1	<0.1	<0.1
Aug-2018	continuous	Bald Hill	2.3	0.5	1.8

Sep-2018	continuous	Bald Hill	0.9	0.3	0.6
Oct-2018	continuous	Bald Hill	0.5	0.3	0.2
Nov-2018	continuous	Bald Hill	1.7	0.5	1.2
Dec-2018	continuous	Bald Hill	3.3	0.8	2.5
Jan-2019	continuous	Bald Hill			
Feb-2019	continuous	Bald Hill			
Mar-2019	continuous	Bald Hill			
Apr-2019	continuous	Bald Hill			
May-2019	continuous	Bald Hill			
Jun-2019	continuous	Bald Hill			
			8.7	2.4	6.3
	Mean		1.74	0.48	1.26
	Lowest		0.5	0.3	0.2
	Highest		3.3	0.8	2.5

ND - Not Detected

Requirement to Monitor
Volume or Mass - Points
1, 8, 9, 10, 11

Kilolitres per day	Daily during any discharge	Estimate					
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EPL POINT 8

Dam 2 - SB2b Range - 6.5 - 8.5

Month	Number of Samples	pH	Electrical Conductivity	Turbidity	Total Dissolved Solids	Total Suspended Solids	Oxygen demand	Oil/Grease	Volume Discharged - KL	Comment
Jul-2018	0									Nil Discharge
Aug-2018	0									Nil Discharge
Sep-2018	0									Nil Discharge
Oct-2018	0									Nil Discharge
Nov-2018	0									Nil Discharge
Dec-2018	0									Nil Discharge
Jan-2019										
Feb-2019										
Mar-2019										
Apr-2019										
May-2019										
Jun-2019										
	0	0	0	0	0	0	0	0		
Mean	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
Lowest	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
Highest	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		

EPL POINT 9

South of O/Burden dump
Dam 3 - SB3a Range - 6.5 - 8.5

Month	Number of Samples	pH	Electrical Conductivity	Turbidity	Total Dissolved Solids	Total Suspended Solids	Oxygen demand	Oil/Grease	Volume Discharged - KL	Comment
Jul-2018	0									Nil Discharge
Aug-2018	0									Nil Discharge
Sep-2018	0									Nil Discharge
Oct-2018	0									Nil Discharge
Nov-2018	0									Nil Discharge
Dec-2018	0									Nil Discharge
09.01.2019	1	7.6	973	9		11				Nil Discharge Sample only
Feb-2019										
Mar-2019										
Apr-2019										
May-2019										
Jun-2019										
	7.6	973	9	0	11	0	0			
Mean	7.60	973.00	9.00	#DIV/0!	11.00	#DIV/0!	#DIV/0!			
Lowest	7.60	973.00	9.00	0.00	11.00	0.00	0.00			
Highest	7.60	973.00	9.00	0.00	11.00	0.00	0.00			

EPL POINT 10

Storage Dam 4
Dam 4 - SD2 Range - 6.5 - 8.5

Month	Number of Samples	pH	Electrical Conductivity	Turbidity	Total Dissolved Solids	Total Suspended Solids	Oxygen demand	Oil/Grease	Volume Discharged - KL	Comment
Jul-2018	0									Nil Discharge
Aug-2018	0									Nil Discharge
Sep-2018	0									Nil Discharge
Oct-2018	0									Nil Discharge
Nov-2018	0									Nil Discharge
Dec-2018	0									Nil Discharge
Jan-2019										
Feb-2019										
Mar-2019										
Apr-2019										
May-2019										
Jun-2019										
	0	#DIV/0!	#DIV/0!	#DIV/0!	0	#DIV/0!	#DIV/0!	#DIV/0!		
Mean	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	0.00	0.00	0.00	0.00		
Lowest	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
Highest	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		

EPL POINT 11

Dam 5 - SD6 - AQW-8 Range - 6.5 - 8.5

Month	Number of Samples	pH	Electrical Conductivity	Turbidity	Total Dissolved Solids	Total Suspended Solids	Oxygen demand	Oil/Grease	Volume Discharged - KL	Comment
Jul-2018	0									Nil Discharge
Aug-2018	0									Nil Discharge
Sep-2018	0									Nil Discharge
Oct-2018	0									Nil Discharge
Nov-2018	0									Nil Discharge
Dec-2018	0									Nil Discharge
Jan-2019										
Feb-2019										
Mar-2019										
Apr-2019										
May-2019										
Jun-2019										
	0	0	0	0	0	0	0	0		
Mean	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
Lowest	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
Highest	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		

AuS-10 Rhyolite - Licence number 12323

Blasting	Frequency	Date	Blast Number	Limits	Units of measure	Results - Hartley Village	Monitor Location - Hartley Village	2nd Monitor 781 Jenolan Caves Rd
Ground Vibration	Per Blast	31.01.2018	146	5 - trigger point >0.51	mm/s	Nil Trigger	√	
Overpressure	Per Blast	31.01.2018	146	115 - Trigger point <88	dB	Nil Trigger	√	
Ground Vibration	Per Blast	14.02.2018	147	5 - trigger point >0.51	mm/s	Nil Trigger	√	
Overpressure	Per Blast	14.02.2018	147	115 - Trigger point <88	dB	Nil Trigger	√	

Ground Vibration	Per Blast	14.03.2018	148	5 - trigger point >0.51	mm/s	Nil Trigger	√	
Overpressure	Per Blast	14.03.2018	148	115 - Trigger point <88	dB	Nil Trigger	√	
Ground Vibration	Per Blast	07.03.2018	149	5 - trigger point >0.51	mm/s	Nil Trigger	√	
Overpressure	Per Blast	07.03.2018	149	115 - Trigger point <88	dB	Nil Trigger	√	
Ground Vibration	Per Blast	28.03.2018	150	5 - trigger point >0.51	mm/s	Nil Trigger	√	
Overpressure	Per Blast	28.03.2018	150	115 - Trigger point <88	dB	Nil Trigger	√	
Ground Vibration	Per Blast	11.04.2018	151	5 - trigger point >0.51	mm/s	Nil Trigger	√	
Overpressure	Per Blast	11.04.2018	151	115 - Trigger point <88	dB	Nil Trigger	√	
Ground Vibration	Per Blast	26.04.2018	152	5 - trigger point >0.51	mm/s	Nil Trigger	√	
Overpressure	Per Blast	26.04.2018	152	115 - Trigger point <88	dB	Nil Trigger	√	
Ground Vibration	Per Blast	22.05.2018	153	5 - trigger point >0.51	mm/s	Nil Trigger	√	
Overpressure	Per Blast	22.05.2018	153	115 - Trigger point <88	dB	Nil Trigger	√	
Ground Vibration	Per Blast	06.06.2018	154	5 - trigger point >0.51	mm/s	Nil Trigger	√	
Overpressure	Per Blast	06.06.2018	154	115 - Trigger point <88	dB	Nil Trigger	√	
Ground Vibration	Per Blast	20.06.2018	155	5 - trigger point >0.51	mm/s	Nil Trigger	√	
Overpressure	Per Blast	20.06.2018	155	115 - Trigger point <88	dB	Nil Trigger	√	
Ground Vibration	Per Blast	04.07.2018	156	5 - trigger point >0.51	mm/s	Nil Trigger	√	
Overpressure	Per Blast	04.07.2018	156	115 - Trigger point <88	dB	Nil Trigger	√	
Ground Vibration	Per Blast	09.07.2018	157	5 - trigger point >0.51	mm/s	Nil Trigger	√	
Overpressure	Per Blast	09.07.2018	157	115 - Trigger point <88	dB	Nil Trigger	√	
Ground Vibration	Per Blast	18.07.2018	158 A & B	5 - trigger point >0.51	mm/s	Nil Trigger	√	Nil Trigger
Overpressure	Per Blast	18.07.2018	158 A & B	115 - Trigger point <88	dB	Nil Trigger	√	Nil Trigger
Ground Vibration	Per Blast	15.08.2018	159	5 - trigger point >0.51	mm/s	Nil Trigger	√	1.04
Overpressure	Per Blast	15.08.2018	159	115 - Trigger point <88	dB	Nil Trigger	√	109.2
Ground Vibration	Per Blast	29.08.2018	160	5 - trigger point >0.51	mm/s	Nil Trigger	√	Nil Trigger
Overpressure	Per Blast	29.08.2018	160	115 - Trigger point <88	dB	Nil Trigger	√	Nil Trigger
Ground Vibration	Per Blast	12.09.2018	161	5 - trigger point >0.51	mm/s	Nil Trigger	√	Nil Trigger
Overpressure	Per Blast	12.09.2018	161	115 - Trigger point <88	dB	Nil Trigger	√	Nil Trigger
Ground Vibration	Per Blast	12.10.2018	162	5 - trigger point >0.51	mm/s	Nil Trigger	√	Nil Trigger
Overpressure	Per Blast	12.10.2018	162	115 - Trigger point <88	dB	Nil Trigger	√	Nil Trigger
Ground Vibration	Per Blast	24.10.2018	163	5 - trigger point >0.51	mm/s	Nil Trigger	√	Nil Trigger
Overpressure	Per Blast	24.10.2018	163	115 - Trigger point <88	dB	Nil Trigger	√	Nil Trigger
Ground Vibration	Per Blast	09.11.2018	164	5 - trigger point >0.50	mm/s	Nil Trigger	√	Nil Trigger
Overpressure	Per Blast	09.11.2018	164	115 - Trigger point <88	dB	Nil Trigger	√	Nil Trigger
Ground Vibration	Per Blast	21.11.2018	165	5 - trigger point >0.50	mm/s	Nil Trigger	√	Nil Trigger
Overpressure	Per Blast	21.11.2018	165	115 - Trigger point <88	dB	Nil Trigger	√	Nil Trigger
Ground Vibration	Per Blast	05.12.2018	MISFIRE Blast	5 - trigger point >0.50	mm/s	Nil Trigger	√	Nil Trigger
Overpressure	Per Blast	05.12.2018	MISFIRE Blast	115 - Trigger point <100	dB	Nil Trigger	√	Nil Trigger
Ground Vibration	Per Blast	07.12.2018	166 A & B	5 - trigger point >0.50	mm/s	Nil Trigger	√	Nil Trigger
Overpressure	Per Blast	07.12.2018	166 A & B	115 - Trigger point <100	dB	Nil Trigger	√	Nil Trigger
Ground Vibration	Per Blast	19.12.2018	167	5 - trigger point >0.51	mm/s	Nil Trigger	√	0.078
Overpressure	Per Blast	19.12.2018	167	115 - Trigger point <100	dB	Nil Trigger	√	108.4

Grant's Head Quarry - Licence Number 4040

	Pollutant	Aluminium	Arsenic	Cadmium	Chromium	Copper	Lead	Mercury	Nickel	Zinc
EPL Point 1 - sump	Units of Measure	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Month	Number of Samples									
29.06.2017	1	0.163	0.0003	0.0008	0.0007	0.143	0.0024	<0.0003	0.0269	0.208
19.09.2017	1	0.13	0.0003	0.0008	0.0007	0.193	0.0005	<0.0001	0.0358	0.222
07.12.2017	1	0.077	0.0002	0.0008	0.0005	0.179	0.0003	<0.0003	0.0265	0.159
15.02.2018	1	0.127	<0.0002	0.0007	0.0003	0.256	0.0002	0.00004	0.0355	0.106
23.05.2018	1	0.135	<0.0002	0.0007	0.0004	0.237	0.0003	<0.0001	0.0346	0.117
22.08.2018	1	0.237	<0.0002	0.0007	0.0005	0.209	0.0002	<0.0001	0.0344	0.122
17.10.2018	1	0.09	<0.001	0.0004	<0.001	0.14	0.001	<0.0001	0.02	0.068
29.11.2018	1	0.305	0.0003	0.0005	0.0032	0.293	0.0003	0.00007	0.0259	0.073

	Pollutant	Aluminium	Arsenic	Cadmium	Chromium	Copper	Lead	Mercury	Nickel	Zinc
Wetland site (new Oct 2018)	Units of Measure	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Date	No. of samples									
17.10.2018	1	0.52	<0.001	<0.0002	0.001	<0.001	<0.001	<0.0001	<0.001	0.014

EPL Point 1 - sump	Pollutant		Electrical Conductivity	Turbidity	Total Suspended Solids Max 30 Milligrams per litre	Oil and Grease	Hours of pump operation	Requirement to Monitor Volume or Mass - KL
	Units of Measure	pH (wet) Range 5.3 to 7.0						
Month	Number of Samples	pH	µS/cm	NTU	mg/l	Visible	Hours	KL
28.06.2018	1	5.9	354	1.3	<3	<5	24	6,825.6
11.07.2018	1	6.2	339	1.4	<3	<5	24	6,825.6
24.07.2018	1	5.4	363	2.5	<3	<5	24	6,825.6
14.08.2018	1	6.2	410	3.9	4	<5	24	6,825.6
22.08.2018	1	6.4	421	6.2	6	<5	24	6,825.6
10.09.2018	1	5.5	499	15	9	<5	24	6,825.6
04.10.2018	1	6.2	441	4.9	6	<5	24	6,825.6
15.10.2018	1	6.0	389	6.2	5	<5	24	6,825.6
17.10.2018	1	6.99	127.7				Sample Only	Sample only
30.10.2018	1	6.10	370	2.4	4	<5	24	6,825.6
22.11.2018	1	6.6	385	4.0	5	NR	Sample Only	Sample only
29.11.2018	1	6.4	400	14	10	<5	24	6,825.6
13.12.2018	1	6.4	403	6.7	4	<5	24	6,825.6

75,081.6

Grant's Head Points 2 & 3	Standing Water Level Meters (mAHD)	Standing Water Level Metres (mAHD)		
Position ID	Quarterly	Position ID	Quarterly	
28.03.2017	MW05	4.814	MW06	4.934
19.06.2017	MW05	4.619	MW06	4.839
11.10.2017	MW05	4.474	MW06	4.529

17.01.2018	MW05	4.664	MW06	4.809
11.04.2018	MW05	3.739	MW06	4.849
14.06.2018	MW05	4.731	MW06	4.846
17.10.2018	MW05	4.749	MW06	4.854

Grant's Head Point 4	Position ID	Conductivity	pH	Standing Water Level	Aluminium	Arsenic	Cadmium	Chromium	Copper	Lead	Mercury	Nickel	Zinc
11.10.2017	NW01S	471	4.96	-1.055									
11.10.2017	NW01D	508	4.1	-4.15									
17.01.2018	NW01D	492	4.67	-0.79	0.51	<0.001	<0.0002	<0.001	0.005	<0.001	<0.0001	0.003	0.034
17.01.2018	NW01S	447	4.99	-0.14	0.22	<0.001	<0.0002	<0.001	0.002	<0.001	<0.0001	0.002	0.012
11.04.2018	NW01D	523	4.74	-0.35									
11.04.2018	NW01S	459	5.04	0.245									
14.06.2018	NW01D	326	4.84	-0.85									
14.06.2018	NW01S	301	4.92	0.039									
17.10.2018	NW01D	425.4	4.3	-1.9	0.7	<0.001	<0.0002	<0.001	0.052	0.004	<0.0001	0.008	0.076
17.10.2018	NW01S	372.3	5.43	-1.17	<0.05	<0.001	<0.0002	<0.001	0.08	0.006	<0.0001	0.007	0.12

Grant's Head Point 5	Position ID	Conductivity	pH	Standing Water Level	Aluminium	Arsenic	Cadmium	Chromium	Copper	Lead	Mercury	Nickel	Zinc
11.10.2017	NW02S	822	5.86	-8.374									
11.10.2017	NW02D	352	3.93	-0.87									
17.01.2018	NW02D	842	6.02	-0.535	<0.05	0.004	<0.0002	<0.001	<0.001	<0.001	<0.0001	0.013	0.006
17.01.2018	NW02S	353	4.1	-8.35	0.39	<0.001	<0.0002	<0.001	0.005	<0.001	<0.0001	<0.001	0.009
11.04.2018	NW02D	890	6.13	-0.325									
11.04.2018	NW02S	398	4.28	-8.41									
14.06.2018	NW02D	572	6.39	-0.147									
14.06.2018	NW02S	256	4.38	-8.248									
17.10.2018	NW02D	717	6.03	-0.315	<0.05	<0.001	<0.0002	<0.001	<0.001	<0.001	<0.0001	0.014	0.012
17.10.2018	NW02S	304.3	4.24	-8.126	0.32	<0.001	<0.0002	<0.001	0.007	<0.001	<0.0001	<0.001	0.007

Grant's Head Point 6	Position ID	Conductivity	pH	Standing Water Level	Aluminium	Arsenic	Cadmium	Chromium	Copper	Lead	Mercury	Nickel	Zinc
11.10.2017	NW03S	412	3.99	-11.115									
11.10.2017	NW03D	1369	5.4	-29.707									
17.01.2018	NW03D	1211	5.35		<0.05	<0.001	<0.0002	<0.001	<0.001	<0.001	<0.0001	0.029	0.057
17.01.2018	NW03S	421	4.52		0.2	<0.001	<0.0002	<0.001	0.003	<0.001	<0.0001	<0.001	0.011
11.04.2018	NW03D	489	2.11	-32.015									
11.04.2018	NW03S	465	4.64	-11.01									
14.06.2018	NW03D	1133	5.42	-32.135									
14.06.2018	NW03S			-10.66	Unable to reach water - no sample								
17.10.2018	NW03D	1246	5.53	-31.63	<0.05	<0.001	<0.0002	<0.001	0.036	0.002	<0.0001	0.056	0.16
17.10.2018	NW03S	343.3	4.85	-11.036	0.08	<0.001	<0.0002	<0.001	0.044	0.004	<0.0001	0.005	0.064

Grant's Head Quarry - Licence Number 4040

Blasting	Frequency	Date	Limits	Units of measure	Results Bonny Hills 1st House	Results - Sherrrod Park	Blast No #
Ground Vibration	Per Blast	16.08.2017	5 - trigger point >0.27	mm/s	1.61	0.63	#118
Overpressure	Per Blast	16.08.2017	115 - Trigger point >100	dB	103.8	107	#118
Ground Vibration	Per Blast	31.10.2017	5 - trigger point >0.27	mm/s	4.57	Nil Trigger	#119
Overpressure	Per Blast	31.10.2017	115 - Trigger point >100	dB	104.9	Nil Trigger	#119
Ground Vibration	Per Blast	18.01.2018	5 - trigger point >0.27	mm/s	3.97	Nil Trigger	#120
Overpressure	Per Blast	18.01.2018	115 - Trigger point >100	dB	107.1	Nil Trigger	#120
Ground Vibration	Per Blast	13.02.2018	5 - trigger point >0.27	mm/s	2.5	0.13	#121
Overpressure	Per Blast	13.02.2018	115 - Trigger point >100	dB	108.6	115.0	#121
Ground Vibration	Per Blast	10.04.2018	5 - trigger point >0.27	mm/s	1.79	Nil Trigger	#122
Overpressure	Per Blast	10.04.2018	115 - Trigger point >100	dB	104.1	Nil Trigger	#122
Ground Vibration	Per Blast	29.06.2018	5 - trigger point >0.27	5 - trigger point >0.27	1.6	0.51	#123
Overpressure	Per Blast	29.06.2018	115 - Trigger point >100	115 - Trigger point >100	105.1	101.9	#123
Ground Vibration	Per Blast	20.08.2018	5 - trigger point >0.27	5 - trigger point >0.30	2.38	Nil Trigger	#124
Overpressure	Per Blast	20.08.2018	115 - Trigger point >100	115 - Trigger point >100	113.3	Nil Trigger	#124
Ground Vibration	Per Blast						
Overpressure	Per Blast						
Ground Vibration	Per Blast						
Overpressure	Per Blast						

Tumbulgun EPL 3430

	Pollutant	OIL and Grease -10 Milligrams per lit.	Total Suspended Solids Max 50 Milligrams per litre	pH (wet) Range 6.5 to 8.5	Requirement to Monitor Volume or Mass
Tumbulgun Point 1	WM 1				
	Frequency	Less than 24 hours before Discharge	Less than 24 hours before Discharge	Less than 24 hours before Discharge	Daily when wastes (water) discharged Klitres per day
Month	Number of Samples				Why Sampled - Discharge or Random?
Jul-2018	0				Nil Discharge
Aug-2018	0				Nil Discharge
Sep-2018	0				Nil Discharge
Oct-2018	0				Nil Discharge
Nov-2018	0				Nil Discharge
Dec-2018					
Jan-2019					
Feb-2019					
Mar-2019					
Apr-2019					
May-2019					
Jun-2019					

	Pollutant	OIL and Grease -10 Milligrams per lit.	Total Suspended Solids Max 50 Milligrams per litre	pH (wet) Range 6.5 to 8.5	Requirement to Monitor Volume or Mass
Tumbulgun Point 2	WM 2				
	Frequency		Monthly during discharge	<24hrs prior to discharge	Daily when wastes (water) discharged Klitres per day
Month	Number of Samples				Why Sampled - Discharge or Random?
Jul-2018	0				Nil Discharge
Aug-2018	0				Nil Discharge

