

AuS-10 Rhyolite - Licence number 12323

Licence Discharge Point 1

The concentration limits stipulated by condition L2.1/L2.4 for EPA Identification Points 1, 8, 9, 10 and 11 are deemed not to apply when the discharge from the stormwater control structures (sediment basins) occurs solely as a result of rainfall measured at the premises which exceeds:
 a) a total of 44 millimetres of rainfall over any consecutive 5 day period.

Dam 1 - SBI - EPL Point 1

Guidance range		Range - 6.5 - 8.5		<1500µs/cm		Limit <30 mg/l		20		Limit - 10 mg/l		Volume Discharged - KL - Estimated	Comment
Month	Number of Samples	pH	Electrical Conductivity	Turbidity	Total Dissolved Solids	Total Suspended Solids	Oxygen demand	Oil/Grease					
20/12/2023	1	7.4	308	834	N/S	812	N/S	<5			2000	97mm of rain - 7am 19.12.2023 to 7am 20.12.2023	N/S - Not Sampled
21/12/2023	1	7.7	228	1400	N/S	1070	N/S	<5			2000	Additional 78mm rain recorded 7am 20.12.2023 to 7am 21.12.2023 - total 175mm	N/S - Not Sampled
22/12/2023	1	7.8	291	770	N/S	424	N/S	<5			1000	Total rainfall recorded of 175mm from 7am 19.12.23 to 21.12.2023	
5/01/2024	1	7.3	225	1400	N/S	828	N/S	<5			2000	95mm of rain recorded between 7.15am 02.01.2024 and 7.00am 05.01.2024	
6/01/2024	1	7.5	235	950	N/S	639	N/S	<5			2000	95mm of rain recorded between 7.15am 02.01.2024 and 7.00am 05.01.2024	
7/01/2024	1	7.7	247	550	N/S	172	N/S	<5			2000	95mm of rain recorded between 7.15am 02.01.2024 and 7.00am 05.01.2024	
18/01/2024	1	7.9	414	1350	N/S	655	N/S	<5			2000	58mm of rain recorded between 7.00am 17.01.2024 and 7.00am 19.01.2024	
19/01/2024	1	6.8	236	2000	N/S	999	N/S	<5			3000	58mm of rain recorded between 7.00am 17.01.2024 and 7.00am 19.01.2024	
6/04/2024	1	7.8	78	1500	N/S	1140	N/S	<5			3000	88 mm of rain recorded between 7.00am 4.04.2024 and 7.00 am 8.04.2024	
7/04/2024	1	7.7	158	1100	N/S	976	N/S	<5			3000	88 mm of rain recorded between 7.00am 4.04.2024 and 7.00 am 8.04.2024	
8/04/2024	1	6.7	243	550	N/S	272	N/S	<5			2000	88 mm of rain recorded between 7.00am 4.04.2024 and 7.00 am 8.04.2024	
Total		82.3	2663	12404	0	7987	0	0					
	Mean	7.48	242.09	1127.64	#DIV/0!	726.09	#DIV/0!	#DIV/0!					
	Lowest	6.70	78.00	550.00	0.00	172.00	0.00	0.00					
	Highest	7.90	414.00	2000.00	0.00	1140.00	0.00	0.00					

EPL POINT 2

Upstream Location AQW-1

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 - Estimated	Comment
18/07/2023	1	8.5	177	1.2	129	<5	<2	<5		Nil Discharge - Monthly sample
17/08/2023	1	7.9	280	2.5	125	<5	<2	<5		Nil Discharge - Monthly sample
18/09/2023	1	7.7	287	1	172	<5	<2	<5		Nil Discharge - Monthly sample
19/10/2023	1	7.1	276	4	132	<5	2	<5		Nil Discharge - Monthly sample
17/11/2023	1	8.4	349	1.6	177	<5	<2	<5		Nil Discharge - Monthly sample
18/12/2023	1	7.5	335	2	192	<5	<2	<5		Nil Discharge - Monthly sample
20/12/2023	1	6.2	243	130	N/S	364	N/S	<5		97mm of rain - 7am 19.12.2023 to 7am 20.12.2023
21/12/2023	1	7.2	319	9.1	N/S	14	N/S	<5		Additional 78mm rain recorded 7am 20.12.2023 to 7am 21.12.2023 - total 175mm
22/12/2023	1	7.8	317	5	N/S	11	N/S	<5		Total rainfall recorded of 175mm from 7am 19.12.23 to 21.12.2023
5/01/2024	1	7.3	242	29	N/S	26	N/S	<5		95mm of rain recorded between 7.15am 02.01.2024 and 7.00am 05.01.2024
6/01/2024	1	7.5	275	10	N/S	10	N/S	<5		95mm of rain recorded between 7.15am 02.01.2024 and 7.00am 05.01.2024
7/01/2024	1	7.7	271	8	N/S	8	N/S	<5		95mm of rain recorded between 7.15am 02.01.2024 and 7.00am 05.01.2024
18/01/2024	1	7.9	278	32	N/S	34	N/S	<5		58mm of rain recorded between 7.00am 17.01.2024 and 7.00am 19.01.2024
19/01/2024	1	7.2	269	7	N/S	14	N/S	<5		58 mm of rain recorded between 7.00am 17.01.2024 and 7.00am 19.01.2024
19/01/2024	1	7.9	278	7	148	<5	<2	<5		Nil Discharge - Monthly sample
20/02/2024	1	6.7	266	2.8	179	5	<2	<5		Nil Discharge - Monthly sample
22/03/2024	1	7.5	227	1.6	151	<5	5	<5		Nil Discharge - Monthly sample
6/04/2024	1	7.5	147	90	N/S	159	N/S	<5		88 mm of rain recorded between 7.00am 4.04.2024 and 7.00 am 8.04.2024
7/04/2024	1	7.7	128	40	N/S	35	N/S	<5		88 mm of rain recorded between 7.00am 4.04.2024 and 7.00 am 8.04.2024
8/04/2024	1	7.9	2448	13	N/S	19	N/S	<5		88 mm of rain recorded between 7.00am 4.04.2024 and 7.00 am 8.04.2024
22/04/2024	1	6.9	239	3.1	156	<5	<2	<5		Nil Discharge - Monthly sample
23/05/2024	1	6.8	200	3.5	168	<5	4	<5		Nil Discharge - Monthly sample
Total		164.8	7851	403.4	1729	699	11	0		
	Mean	7.49	356.86	18.34	157.18	58.25	3.67	#DIV/0!		
	Lowest	6.20	128.00	1.00	125.00	5.00	2.00	0.00		
	Highest	8.50	2448.00	130.00	192.00	364.00	5.00	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 Suspended Solids	Oxygen demand	Oil/Grease	Volume Discharged - KL - Estimated	Comment
18/07/2023	1	7.1	187	1.1	138	<5	<2	<5		Nil Discharge - Monthly sample
17/08/2023	1	7.7	235	2.0	131	<5	<2	<5		Nil Discharge - Monthly sample
18/09/2023	1	6.9	302	1.6	184	<5	2	<5		Nil Discharge - Monthly sample
19/10/2023	1	7.3	280	2	146	<5	2	<5		Nil Discharge - Monthly sample
17/11/2023	1	7.7	338	1.3	175	<5	9	<5		Nil Discharge - Monthly sample
18/12/2023	1	7.7	322	1	190	5	<2	<5		Nil Discharge - Monthly sample
20/12/2023	1	7.0	204	138	N/S	378	N/S	<5		97mm of rain - 7am 19.12.2023 to 7am 20.12.2023 - Sampled at Alternative - AQW2
21/12/2023	1	7.5	316	8.5	N/S	15	N/S	<5		Additional 78mm rain recorded 7am 20.12.2023 to 7am 21.12.2023 - total 175mm
22/12/2023	1	7.9	318	8	N/S	10	N/S	<5		Sampled at Alternative - AQW2
5/01/2024	1	7.4	242	29	N/S	24	N/S	<5		95mm of rain recorded between 7.15am 02.01.2024 and 7.00am 05.01.2024 - sampled at AQW2
6/01/2024	1	7.6	272	13	N/S	16	N/S	<5		95mm of rain recorded between 7.15am 02.01.2024 and 7.00am 05.01.2024 - sampled at AQW2
7/01/2024	1	7.7	277	12	N/S	10	N/S	<5		95mm of rain recorded between 7.15am 02.01.2024 and 7.00am 05.01.2024 - sampled at AQW2

Overpressure	Per Blast	12/10/2023	115 - Trigger point >100	115 - Trigger point >95	96.8	No Trigger	#139	
Ground Vibration	Per Blast	7/02/2024	5 - Trigger point >0.27	5 - Trigger point >0.10	0.54	No Trigger	#140	1.13pm
Overpressure	Per Blast	7/02/2024	115 - Trigger point >100	115 - Trigger point >95	100.1	No Trigger	#140	
Ground Vibration	Per Blast	12/06/2024	5 - Trigger point >0.27	5 - Trigger point >0.10	0.84	No Trigger	#141	11.46 am
Overpressure	Per Blast	12/06/2024	115 - Trigger point >100	115 - Trigger point >95	106.2	No Trigger	#141	

Tumbulgom EPL 3430							
		Pollutant	Oil and Grease -10 Milligrams per Lt.	Total Suspended Solids Max 50 Milligrams per litre	pH (wet) Range 6.5 to 8.5	Requirement to Monitor Volume or Mass	
Tumbulgom 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 Kiltres per day	Why Sampled - Discharge or Random?
Month	Number of Samples						
Jul-2023	0						Nil Controlled Discharge
Aug-2023	0						Nil Controlled Discharge
Sep-2023	0						Nil Controlled Discharge
Oct-2023	0						Nil Controlled Discharge
Nov-2023	0						Nil Controlled Discharge
Dec-2023	0						Nil Controlled Discharge
Jan-2024	0						Nil Controlled Discharge
Feb-2024	0						Nil Controlled Discharge
Mar-2024	0						Nil Controlled Discharge
Apr-2024	0						Nil Controlled Discharge
May-2024	0						Nil Controlled Discharge
Jun-2024	0						Nil Controlled Discharge

Tumbulgom Point 2							
		Pollutant	Oil and Grease -10 Milligrams per Lt.	Total Suspended Solids Max 50 Milligrams per litre	pH (wet) Range 6.5 to 8.5	Requirement to Monitor Volume or Mass	
Tumbulgom Point 2	WM 2	Frequency		Monthly during discharge	<24hrs prior to discharge	Daily when wastes (water) discharged Kiltres per day	Why Sampled - Discharge or Random?
Month	Number of Samples						
Jul-2023	0						Nil Controlled Discharge
Aug-2023	0						Nil Controlled Discharge
Sep-2023	0						Nil Controlled Discharge
Oct-2023	0						Nil Controlled Discharge
Nov-2023	0						Nil Controlled Discharge
Dec-2023	0						Nil Controlled Discharge
Jan-2024	0						Nil Controlled Discharge
Feb-2024	0						Nil Controlled Discharge
Mar-2024	0						Nil Controlled Discharge
Apr-2024	0						Nil Controlled Discharge
May-2024	0						Nil Controlled Discharge
Jun-2024	0						Nil Controlled Discharge

Tumbulgom Additional to EPL requirements testing sites							
Date	Site Location	Pollutant	Oil and Grease -10 Milligrams per Lt.	Total Suspended Solids Max 50 Milligrams per litre	pH (wet) Range 6.5 to 8.5	Requirement to Monitor Volume or Mass	
	location	Samples		Monthly during	<24hrs prior to discharge	Daily when	Why Sampled - Discharge

EPL 3430 - Condition L2.5 The concentration limits in the above tables do not apply to any discharge from the final sediment basin arising from rainfall exceeding 82.5mm in total falling over any consecutive five day period.

Tumbulgom EPL 3430								
Tumbulgom Blast Monitoring results								
Blasting	Frequency	Date	Limits	Units of measure	Loc # 1 - 43 Pollard Rd	Loc # 2 - 23 Pollard Rd	Loc # 3 - 42 Pollard Rd	Blast #
Ground Vibration	Per Blast	02.03.2023	5 - trigger point >0.26	mm/s	1.02	1.65	Not required	#103
Overpressure	Per Blast	02.03.2023	Max 115 - Trigger point >107	dB	111.20	112.80	Not required	#103
Ground Vibration	Per Blast	02.03.2023	5 - trigger point >0.26	mm/s	1.02	1.65	Not required	#104
Overpressure	Per Blast	02.03.2023	Max 115 - Trigger point >108	dB	111.20	112.80	Not required	#104
Ground Vibration	Per Blast	29.05.2023	5 - trigger point >0.26	mm/s	1.40	2.40	Not required	#105
Overpressure	Per Blast	29.05.2023	Max 115 - Trigger point >108	dB	114.40	113.20	Not required	#105
Ground Vibration	Per Blast	29.05.2023	5 - trigger point >0.26	mm/s	1.40	2.40	Not required	#106
Overpressure	Per Blast	29.05.2023	Max 115 - Trigger point >108	dB	114.40	113.20	Not required	#106
Ground Vibration	Per Blast	16.08.2023	5 - trigger point >0.26	mm/s	1.78	Not Required	Not required	#107
Overpressure	Per Blast	16.08.2023	Max 115 - Trigger point >109	dB	114.50	Not Required	Not required	#107
Ground Vibration	Per Blast	16.08.2023	5 - trigger point >0.26	mm/s	1.78	Not Required	Not required	#108
Overpressure	Per Blast	16.08.2023	Max 115 - Trigger point >110	dB	114.50	Not Required	Not required	#108
Ground Vibration	Per Blast	16.08.2023	5 - trigger point >0.26	mm/s	1.78	Not Required	Not required	#109
Overpressure	Per Blast	16.08.2023	Max 115 - Trigger point >110	dB	114.50	Not Required	Not required	#109
Ground Vibration	Per Blast	13/10/2023	5 - trigger point >0.25	mm/s	0.82	Not Required	Not required	#110
Overpressure	Per Blast	13/10/2023	Max 115 - Trigger point >110	dB	111.60	Not Required	Not required	#110
Ground Vibration	Per Blast	13/10/2023	5 - trigger point >0.25	mm/s	0.82	Not Required	Not required	#111
Overpressure	Per Blast	13/10/2023	Max 115 - Trigger point >110	dB	111.60	Not Required	Not required	#111
Ground Vibration	Per Blast	2/02/2024	5 - trigger point >0.25	mm/s	1.64	Not Required	Not required	#112
Overpressure	Per Blast	2/02/2024	Max 115 - Trigger point >110	dB	109.10	Not Required	Not required	#112
Ground Vibration	Per Blast	2/02/2024	5 - trigger point >0.25	mm/s	1.64	Not Required	Not required	#113
Overpressure	Per Blast	2/02/2024	Max 115 - Trigger point >110	dB	109.10	Not Required	Not required	#113
Ground Vibration	Per Blast	2/04/2024	5 - trigger point >0.25	mm/s	1.40	Not Required	1.65	#114
Overpressure	Per Blast	2/04/2024	Max 115 - Trigger point >110	dB	114.60	Not Required	114.3	#114
Ground Vibration	Per Blast	5/08/2024	5 - trigger point >0.25	mm/s	Nil Trigger	Not Required	0.59	#116
Overpressure	Per Blast	5/08/2024	Max 115 - Trigger point >110	dB	Nil Trigger	Not Required	110.2	#116

Yarrabee Rd Quarry - Licence Number 11462

M2.3 Note - Special Frequency 1 means sampling once during each discharge event arising from rainfall not exceeding the 90 percentile five day rainevent of 70 mm falling in total over a period of up to five days duration.

Yarrabee Rd Point 3							
Month	Number of Samples	Pollutant	Total Suspended Solids Max 50 Milligrams per litre	pH (wet) Range 6.5 to 8.5	Requirement to Monitor Volume or Mass - Estimate	Rainfall recorded - mm	Comments
06.06.2023	1	Frequency	<24hrs prior to discharge	<24hrs prior to discharge	Daily when wastes (water) discharged KiloLitres per day	0	Nil Discharge / Sample only
02.02.2024	1		4	7.8	0	0	Nil Discharge / Sample only
24.04.2024	1		14	8	0	0	Nil Discharge / Sample only
13.05.2024	1		7	7.5	0	0	Nil Discharge / Sample only
Number of samples	4						
Mean			19.00	7.85	0.00		
Lowest			4.00	7.50	0.00		
Highest			51.00	8.10	0.00		

EPL 11462 - Condition L2.2 The concentration limits in the below table do not apply to any discharge from sediment pond (at Point 3) solely arising from rainfall exceeding 90th percentile (70 mm) 5 day rainevent in total falling over any consecutive five day period

Yarrabee Rd Quarry - Licence Number 11462

Blasting	Frequency	Date	Limits	Units of measure	Results	Blast #	Blast ID	
Ground Vibration	Per Blast	07/10/2022	5 mm/s - trigger point >0.30	mm/s	Nil Trigger	#105	YRQ-2210	12.49pm
Overpressure	Per Blast	07/10/2022	Max 115 dB - Trigger point >100dB	dB	Nil Trigger	#105	YRQ-2210	
Ground Vibration	Per Blast	07/11/2022	5 mm/s - trigger point >0.30	mm/s	0.78	#106	YRQ-2211	12.15pm
Overpressure	Per Blast	07/11/2022	Max 115 dB - Trigger point >100dB	dB	111.7	#106	YRQ-2211	
Ground Vibration	Per Blast	25/11/2022	5 mm/s - trigger point >0.30	mm/s	Nil Trigger	#107	YRQ-2212	11.00AM
Overpressure	Per Blast	25/11/2022	Max 115 dB - Trigger point >100dB	dB	Nil Trigger	#107	YRQ-2212	
Ground Vibration	Per Blast	12/01/2023	5 mm/s - trigger point >0.30	mm/s	0.70	#108	YRQ-2301	12.04pm
Overpressure	Per Blast	12/01/2023	Max 115 dB - Trigger point >100dB	dB	110.0	#108	YRQ-2301	
Ground Vibration	Per Blast	23/01/2023	5 mm/s - trigger point >0.30	mm/s	1.49	#109	YRQ-2302	12.29pm
Overpressure	Per Blast	23/01/2023	Max 115 dB - Trigger point >100dB	dB	103.6	#109	YRQ-2302	
Ground Vibration	Per Blast	15/02/2023	5 mm/s - trigger point >0.30	mm/s	Nil Trigger	#110	YRQ-2303	1.56pm
Overpressure	Per Blast	15/02/2023	Max 115 dB - Trigger point >100dB	dB	Nil Trigger	#110	YRQ-2303	
Ground Vibration	Per Blast	8/03/2023	5 mm/s - trigger point >0.30	mm/s	Nil Trigger	#111	YRQ-2304	11.06am
Overpressure	Per Blast	8/03/2023	Max 115 dB - Trigger point >100dB	dB	Nil Trigger	#111	YRQ-2304	
Ground Vibration	Per Blast	10/03/2023	5 mm/s - trigger point >0.30	mm/s	Nil Trigger	#112	YRQ-2305	12.16pm
Overpressure	Per Blast	10/03/2023	Max 115 dB - Trigger point >100dB	dB	Nil Trigger	#112	YRQ-2305	
Ground Vibration	Per Blast	9/05/2023	5 mm/s - trigger point >0.30	mm/s	1.14	#113	YRQ-2306	12.36pm
Overpressure	Per Blast	9/05/2023	Max 115 dB - Trigger point >100dB	dB	103.2	#113	YRQ-2306	
Ground Vibration	Per Blast	26/06/2023	5 mm/s - trigger point >0.30	mm/s	Nil Trigger	#114	YRQ-2307	1.16pm
Overpressure	Per Blast	26/06/2023	Max 115 dB - Trigger point >100dB	dB	Nil Trigger	#114	YRQ-2307	
Ground Vibration	Per Blast	9/08/2023	5 mm/s - trigger point >0.30	mm/s	0.88	#115	YRQ-2308	12.21pm
Overpressure	Per Blast	9/08/2023	Max 115 dB - Trigger point >100dB	dB	110.9	#115	YRQ-2308	
Ground Vibration	Per Blast	9/10/2023	5 mm/s - trigger point >0.30	mm/s	1.16	#116	YRQ-2309	12.34pm
Overpressure	Per Blast	9/10/2023	Max 115 dB - Trigger point >100dB	dB	100.9	#116	YRQ-2309	
Ground Vibration	Per Blast	1/11/2023	5 mm/s - trigger point >0.30	mm/s	0.76	#117	YRQ-2310	12.36pm
Overpressure	Per Blast	1/11/2023	Max 115 dB - Trigger point >100dB	dB	106.5	#117	YRQ-2310	
Ground Vibration	Per Blast	29/11/2023	5 mm/s - trigger point >0.30	mm/s	1.19	#118	YRQ-2311	1.02pm
Overpressure	Per Blast	29/11/2023	Max 115 dB - Trigger point >100dB	dB	113.5	#118	YRQ-2311	
Ground Vibration	Per Blast	19/12/2023	5 mm/s - trigger point >0.30	mm/s	0.80	#119	YRQ-2312	12.06pm
Overpressure	Per Blast	19/12/2023	Max 115 dB - Trigger point >100dB	dB	110.5	#119	YRQ-2312	
Ground Vibration	Per Blast	12/03/2024	5 mm/s - trigger point >0.30	mm/s	0.54	#120	YRQ-2401	12.30pm
Overpressure	Per Blast	12/03/2024	Max 115 dB - Trigger point >100dB	dB	112.8	#120	YRQ-2401	
Ground Vibration	Per Blast	23/04/2024	5 mm/s - trigger point >0.30	mm/s	0.67	#121	YRQ-2402	1.37pm
Overpressure	Per Blast	23/04/2024	Max 115 dB - Trigger point >100dB	dB	110.8	#121	YRQ-2402	
Ground Vibration	Per Blast	25/06/2024	5 mm/s - trigger point >0.30	mm/s	0.74	#122	YRQ-2403	12:33pm