





		NW01D	Mean	#DIV/0!	NW01S	Mean	#DIV/0!						
		NW01D	Lowest	0.000	NW01S	Lowest	0.000						
		NW01D	Highest	0.000	NW01S	Highest	0.000						
Grant's Head Point 5	Position ID	Conductivity	pH	Standing Water Level	Aluminium	Arsenic	Cadmium	Chromium	Copper	Lead	Mercury	Nickel	Zinc
	NW02D												
	NW02D												
	NW02D												
	NW02D												
	NW02D												
	NW02S												
	NW02S												
	NW02S												
	NW02S												
	NW02S												
		NW02S	Mean	#DIV/0!	NW02D	Mean	#DIV/0!						
	NW02S	Lowest	0.000	NW02D	Lowest	0.000							
	NW02S	Highest	0.000	NW02D	Highest	0.000							

  

		NW03D-A	Mean	#DIV/0!	NW03S-A	Mean	#DIV/0!						
		NW03D-A	Lowest	0.000	NW03S-A	Lowest	0.000						
		NW03D-A	Highest	0.000	NW03S-A	Highest	0.000						
Grant's Head Point 6	Position ID	Conductivity	pH	Standing Water Level	Aluminium	Arsenic	Cadmium	Chromium	Copper	Lead	Mercury	Nickel	Zinc
	NW03D-A												
	NW03D-A												
	NW03D-A												
	NW03D-A												
	NW03D-A												
	NW03S-A												
	NW03S-A												
	NW03S-A												
	NW03S-A												
	NW03S-A												
		NW03D-A	Mean	#DIV/0!	NW03S-A	Mean	#DIV/0!						
	NW03D-A	Lowest	0.000	NW03S-A	Lowest	0.000							
	NW03D-A	Highest	0.000	NW03S-A	Highest	0.000							

**Grant's Head Quarry - Licence Number 4040**

Blasting	Frequency	Date	Limits	Units of measure	Results Bonny Hills 1st House	Results - Sherrod Park	Blast No #	
Ground Vibration	Per Blast	17/01/2022	5 - trigger point >0.27	5 - trigger point >0.10	1.41	0.25	#133	
Overpressure	Per Blast	17/01/2022	115 - Trigger point >100	115 - Trigger point >100	101.8	102.8	#133	
Ground Vibration	Per Blast	6/06/2022	5 - trigger point >0.27	5 - trigger point >0.10	2.16	0.13	#134	
Overpressure	Per Blast	6/06/2022	115 - Trigger point >100	115 - Trigger point >100	105.9	101.9	#134	
Ground Vibration	Per Blast	20/09/2022	5 - trigger point >0.27	5 - trigger point >0.10	3.18	0.21	#135	
Overpressure	Per Blast	20/09/2022	115 - Trigger point >100	115 - Trigger point >100	103.5	108.5	#135	
Ground Vibration	Per Blast	21/02/2023	5 - trigger point >0.27	5 - trigger point >0.10	1.44	0.25	#136	12.49pm
Overpressure	Per Blast	21/02/2023	115 - Trigger point >100	115 - Trigger point >100	100.9	108.0	#136	
Ground Vibration	Per Blast	1/05/2023	5 - trigger point >0.27	5 - trigger point >0.10	2.17	0.13	#137	12.55pm
Overpressure	Per Blast	1/05/2023	115 - Trigger point >100	115 - Trigger point >100	111.7	103.5	#137	
Ground Vibration	Per Blast	29/08/2023	5 - trigger point >0.27	5 - trigger point >0.10	2.4	0.13	#138	12.54pm
Overpressure	Per Blast	29/08/2023	115 - Trigger point >100	115 - Trigger point >100	110.0	106.0	#138	
Ground Vibration	Per Blast	12/10/2023	5 - trigger point >0.27	5 - trigger point >0.10	0.57	No Trigger	#139	1.34pm
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	0.64	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	
Ground Vibration	Per Blast	29/08/2024	5 - trigger point >0.27	5 - trigger point >0.10	0.94	No Trigger	#142	11:44 AM
Overpressure	Per Blast	29/08/2024	115 - Trigger point >100	115 - Trigger point >95	105.2	No Trigger	#142	

**Tumbulum 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
Tumbulum Point 1	WM 1	Frequency	Less than 24 hours before Discharge	Less than 24 hours before Discharge	Daily when wastes (water) discharged
Month	Number of Samples				Kilolitres per day
Jul-2024	0				NII Controlled Discharge
Aug-2024	0				NII Controlled Discharge
Sep-2024	0				NII Controlled Discharge
Oct-2024	0				NII Controlled Discharge
Nov-2024	0				NII Controlled Discharge
Dec-2024	0				NII Controlled Discharge
Jan-2025	0				NII Controlled Discharge
Feb-2025	0				NII Controlled Discharge
Mar-2025	0				NII Controlled Discharge
Apr-2025	0				NII Controlled Discharge
May-2025	0				NII Controlled Discharge
Jun-2025	0				NII Controlled Discharge

	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
Tumbulum Point 2	WM 2	Frequency	Monthly during discharge	<24hrs prior to discharge	Daily when wastes (water) discharged
Month	Number of Samples				Kilolitres per day
Jul-2024	0				NII Controlled Discharge
Aug-2024	0				NII Controlled Discharge
Sep-2024	0				NII Controlled Discharge
Oct-2024	0				NII Controlled Discharge
Nov-2024	0				NII Controlled Discharge
Dec-2024	0				NII Controlled Discharge
Jan-2025	0				NII Controlled Discharge
Feb-2025	0				NII Controlled Discharge
Mar-2025	0				NII Controlled Discharge
Apr-2025	0				NII Controlled Discharge
May-2025	0				NII Controlled Discharge
Jun-2025	0				NII Controlled Discharge

Tumbulum Additional to EPL requirements testing sites	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
Date	Site Location	Samples	Monthly during	<24hrs prior to discharge	Daily when
	location				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

**Tumbulum EPL 3430**

Tumbulum 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	12.31
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	12.31
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	2.00pm
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	2.00pm
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	3.15pm
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	3.15pm
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	3.15pm
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	1.49pm
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	1.49pm
Overpressure	Per Blast	13/10/2023	Max 115 - Trigger point >110	dB	111.60	Not Required	Not required	#111	
Ground Vibration	Per Blast	20/02/2024	5 - trigger point >0.25	mm/s	1.64	Not Required	Not required	#112	2.37pm
Overpressure	Per Blast	20/02/2024	Max 115 - Trigger point >110	dB	109.10	Not Required	Not required	#112	
Ground Vibration	Per Blast	20/02/2024	5 - trigger point >0.25	mm/s	1.64	Not Required	Not required	#113	2.37pm
Overpressure	Per Blast	20/02/2024	Max 115 - Trigger point >110	dB	109.10	Not Required	Not required	#113	
Ground Vibration	Per Blast	20/04/2024	5 - trigger point >0.25	mm/s	1.40	Not Required	1.65	#114	1.34pm
Overpressure	Per Blast	20/04/2024	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	11.37 pm
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		Pollutant	Total Suspended Solids Max 50 Milligrams per litre	pH (wet) Range 6.5 to 8.5	Requirement to Monitor Volume or Mass - Estimate		
Month	Number of Samples	Frequency	<24hrs prior to discharge	<24hrs prior to discharge	Daily when wastes (water) discharged KiloLitres per day	Rainfall recorded - mm	Comments
02.02.2024	1		4	7.8	0	0	Nil Discharge / Sample only
29.04.2024	1		14	8	0	0	Nil Discharge / Sample only
13.05.2024	1		7	7.5	0	0	Nil Discharge / Sample only
27.06.2024	1		6	7.9	0	0	Nil Discharge / Sample only
2.09.2024	1		<5	8.3	720		
Number of samples		5					
Mean			7.75	7.80	0.00		
Lowest			4.00	7.50	0.00		
Highest			14.00	8.00	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	5/10/2023	5 mm/s - trigger point >0.30	mm/s	1.16	#116	YRQ-2309
Overpressure	Per Blast	5/10/2023	Max 115 dB - Trigger point >100dB	dB	109.9	#116	YRQ-2309
Ground Vibration	Per Blast	11/11/2023	5 mm/s - trigger point >0.30	mm/s	0.76	#117	YRQ-2310
Overpressure	Per Blast	11/11/2023	Max 115 dB - Trigger point >100dB	dB	106.6	#117	YRQ-2310
Ground Vibration	Per Blast	29/11/2023	5 mm/s - trigger point >0.30	mm/s	1.19	#118	YRQ-2311
Overpressure	Per Blast	29/11/2023	Max 115 dB - Trigger point >100dB	dB	113.6	#118	YRQ-2311
Ground Vibration	Per Blast	19/12/2023	5 mm/s - trigger point >0.30	mm/s	0.80	#119	YRQ-2312
Overpressure	Per Blast	19/12/2023	Max 115 dB - Trigger point >100dB	dB	110.6	#119	YRQ-2312
Ground Vibration	Per Blast	12/03/2024	5 mm/s - trigger point >0.30	mm/s	0.64	#120	YRQ-2401
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
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