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			Limit <30 mg/l	20	Limit - 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-2019	0								Nil Discharge	
Aug-2019	0								Nil Discharge	
Sep-2019	0								Nil Discharge	
Oct-2019	0								Nil Discharge	
Nov-2019	0								Nil Discharge	
Dec-2019	0								Nil Discharge	
Jan-2020	0								Nil Discharge	
10.02.2020	1	6.8		950		462		<5	50,000Lt	400mm+ 5 day event
Mar-2020	0								Nil Discharge	
Apr-2020	0								Nil Discharge	
May-2020	0								Nil Discharge	
Jun-2020	0								Nil Discharge	
Total		**6.8**	**0**	**950**	**0**	**462**	**0**	**0**		
	Mean	**6.80**	**#DIV/0!**	**950.00**	**#DIV/0!**	**462.00**	**#DIV/0!**	**#DIV/0!**		
	Lowest	**6.80**	**0.00**	**950.00**	**0.00**	**462.00**	**0.00**	**0.00**		
	Highest	**6.80**	**0.00**	**950.00**	**0.00**	**462.00**	**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**	
Jul-2019	1	7.1	681	1.1	409	<5	2	<5	Nil Discharge	
Aug-2019	1	8.4	753	1	426	<5	<2	<5	Nil Discharge	
Sep-2019	1	7.8	631	5.1	347	<5	<2	<5	Nil Discharge	
Oct-2019	1	6.9	687	1.7	385	<5	<2	<5	Nil Discharge	
Nov-2019	1	8.1	804	1.8	456	<5	3	<5	Nil Discharge	
Dec-2019	1	8.5	843	3.1	539	<5	6	5	Nil Discharge	Oil and Grease to be checked
Jan-2020	1	8.1	847	1.9	466	<5	<2	<5	Nil Discharge	
Feb-2020	1	7.7	619	25	341	23	<2	<5	Nil Discharge	
Mar-2020	1	7.7	434	4.2	256	<5	3	<5	Nil Discharge	
Apr-2020	1	7.1	467	5.2	262	<5	<2	<5	Nil Discharge	
May-2020	1	7.5	428	2.5	238	<5	<2	<5	Nil Discharge	
Jun-2020	1	8.3	463	2.3	260	<5	2	<5	Nil Discharge	
Total		**93.2**	**7657**	**54.9**	**4385**	**23**	**16**	**5**		
		7.77	**638.08**	**4.58**	**365.42**	**1.92**	**1.33**	**0.42**		
	Mean	**7.77**	**638.08**	**4.58**	**365.42**	**23.00**	**3.20**	**5.00**		
	Lowest	**6.90**	**428.00**	**1.00**	**238.00**	**23.00**	**2.00**	**5.00**		
	Highest	**8.50**	**847.00**	**25.00**	**539.00**	**23.00**	**6.00**	**5.00**		

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**		
Jul-2019	1	6.5	679	1	444	<5	4	<5	Nil Discharge		
Aug-2019	1	8.7	720	1.6	416	<5	<2	<5	Nil Discharge		
Sep-2019	1	8.2	721	3.8	379	<5	3	<5	Nil Discharge		
Oct-2019	1	8.1	709	1.3	407	<5	2	<5	Nil Discharge		
Nov-2019	1	8.3	811	1.2	466	<5	<2	<5	Nil Discharge		
Dec-2019	1	8.3	829	1.9	477	<5	2	<5	Nil Discharge		
Jan-2020	1	8.3	846	1.8	458	<5	4	<5	Nil Discharge		
Feb-2020	1	8.00	651	13	363	15	<2	<5	Nil Discharge		
05.03.2020	1	6.8				<5		<5	EPL 9 Discharge		
Mar-2020	1	8.2	441	3.8	260	<5	3	<5	Nil Discharge		
Apr-2020	1	7.6	476	5.2	284	<5	<2	<5	Nil Discharge		
May-2020	1	8.1	418	2.6	226	<5	<2	<5	Nil Discharge		
Jun-2020	1	8.3	433	2.2	232	<5	2	<5	Nil Discharge		
25.06.2020	1	8.1		4.2		<5		<5	EPL 9 Discharge		
Total		**96.9**	**7055**	**38.4**	**3968**	**15**	**16**	**0**			
		8.08	**587.92**	**3.20**	**330.67**	**1.25**	**1.33**	**0.00**			
	Mean	**7.95**	**644.50**	**3.28**	**367.67**	**15.00**	**2.86**	**#DIV/0!**	**#DIV/0!**	**#DIV/0!**	
	Lowest	**6.50**	**418.00**	**1.00**	**226.00**	**15.00**	**2.00**	**0.00**		**0.00**	
	Highest	**8.70**	**846.00**	**13.00**	**477.00**	**15.00**	**4.00**	**0.00**		**0.00**	

Dust Monitoring EPL Point 4

Month	**Number of Samples**	**Sawmill**	**Insoluble Solids**	**Combustible Matter**	**Ash**
Jul-2019	continuous	Sawmill	1.1	0.4	0.7
Aug-2019	continuous	Sawmill	<0.1	<0.1	<0.1
Sep-2019	continuous	Sawmill	1.00	0.2	0.8
Sep - Oct 2019	continuous	Sawmill	3.20	1.5	1.7
Oct - Nov 2019	continuous	Sawmill	0.70	0.1	0.6
Nov - Dec 2019	continuous	Sawmill	1.90	0.6	1.3
Dec 19 - Jan 2020	continuous	Sawmill	1.60	0.9	0.7
Jan - Feb 2020	continuous	Sawmill	7.20	1.3	5.9
Feb - March 2020	continuous	Sawmill	1.70	0.7	1.0
March - April 2020	continuous	Sawmill	0.60	0.3	0.3
April - May 2020	continuous	Sawmill	0.40	0.2	0.2
May - June 2020	continuous	Sawmill	0.5	0.2	0.3
Jun-2020	continuous	Sawmill	0.5	0.4	0.1
			20.4	**6.8**	**13.6**
		Mean	**1.70**	**0.57**	**1.13**
		Lowest	**0.4**	**0.1**	**0.1**
		Highest	**7.2**	**1.5**	**5.9**

Dust Monitoring EPL Point 5

Month	**Number of Samples**	**Baners Lane**	**Insoluble Solids**	**Combustible Matter**	**Ash**
Jul-2019	continuous	Baners Lane	0.6	0.2	0.4
Aug-2019	continuous	Baners Lane	0.5	<.01	0.5
Sep-2019	continuous	Baners Lane	1.2	0.3	0.9
Sep - Oct 2019	continuous	Baners Lane	1.1	<0.1	1.1
Oct - Nov 2019	continuous	Baners Lane	1.70	0.3	1.4
Nov - Dec 2019	continuous	Baners Lane	2.90	0.7	2.2
Dec 19 - Jan 2020	continuous	Baners Lane	2.20	0.7	1.5
Jan - Feb 2020	continuous	Baners Lane	8.40	1.5	6.9
Feb - March 2020	continuous	Baners Lane	1.10	0.5	0.6
March - April 2020	continuous	Baners Lane	0.70	0.5	0.2
April - May 2020	continuous	Baners Lane	0.50	0.3	0.2
May - June 2020	continuous	Baners Lane	0.4	0.2	0.2
Jun-2020	continuous	Baners Lane	0.4	0.4	0
			21.7	**5.6**	**16.1**
		Mean	**1.67**	**0.51**	**1.24**
		Lowest	**0.4**	**0.2**	**0**
		Highest	**8.4**	**1.5**	**6.9**

Dust Monitoring EPL Point 6

Month	**Number of Samples**	**Bald Hill**	**Insoluble Solids**	**Combustible Matter**	**Ash**
Jul-2019	continuous	Bald Hill	0.2	0.2	<0.1
Aug-2019	continuous	Bald Hill	<0.1	<0.1	<0.1

Sep-2019	continuous	Bald Hill	0.8	0.2	0.6
Sep - Oct 2019	continuous	Bald Hill	0.6	0.1	0.5
Oct - Nov 2019	continuous	Bald Hill	0.9	<0.1	0.9
Nov - Dec 2019	continuous	Bald Hill	1.3	0.3	1.0
Dec 19 - Jan 2020	continuous	Bald Hill	1.3	0.4	0.9
Jan - Feb 2020	continuous	Bald Hill	3.9	0.6	3.3
Feb - March 2020	continuous	Bald Hill	1.1	0.4	0.7
March - April 2020	continuous	Bald Hill	0.3	0.2	0.1
April - May 2020	continuous	Bald Hill	0.5	0.3	0.2
May - June 2020	continuous	Bald Hill	0.5	0.3	0.2
Jun-2020	continuous	Bald Hill	0.5	0.4	0.1
			11.9	**3.4**	**8.5**
		Mean	**0.99**	**0.31**	**0.77**
		Lowest	**0.2**	**0.1**	**0.1**
		Highest	**3.9**	**0.6**	**3.3**

ND - Not Detected

Requirement to Monitor Volume or Mass - Points 1, 8, 9, 10, 11	Kilolitres per day	Daily during any discharge	Estimate			

EPL POINT 8

Dam 2 - SB2b **Range - 6.5 - 8.5**

Month	Number of Samples	pH	Electrical Conductivity	Turbidity	Total Dissolved Solids	Total Suspend Solids	Oxygen demand	Oil/Grease	Volume Discharged - KL	Comment
Jul-2019	0								Nil Discharge	
Aug-2019	0								Nil Discharge	
Sep-2019	0								Nil Discharge	
Oct-2019	0								Nil Discharge	
Nov-2019	0								Nil Discharge	
Dec-2019	0								Nil Discharge	
Jan-2020	0								Nil Discharge	
Feb-2020	0								Nil Discharge	
Mar-2020	0								Nil Discharge	
Apr-2020	0								Nil Discharge	
May-2020	0								Nil Discharge	
Jun-2020	0								Nil Discharge	
	0	**0**	**0**	**0**	**0**	**0**	**0**			
Mean		**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**		
Highest		**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 Suspend Solids	Oxygen demand	Oil/Grease	Volume Discharged - KL	Comment
Jul-2019	0								Nil Discharge	
Aug-2019	0								Nil Discharge	
Sep-2019	0								Nil Discharge	
16.10.2019	1	8.4				9			Nil Discharge	Sample only
Nov-2019	0								Nil Discharge	
Dec-2019	0								Nil Discharge	
Jan-2020	0								Nil Discharge	
10.02.2020	1	6.7		140		22		<5	Nil Discharge	
25.02.2020	1	6.3				9		<5	Nil Discharge	
04.03.2020	1	7.0				12		<5	Nil Discharge	
05.03.2020	1	7.1				14		<5	1Ml	
Mar-2020	0								Nil Discharge	
Apr-2020	0								Nil Discharge	
May-2020	0								Nil Discharge	
23.06.2020	1	6.9		16.3		9		<5	Nil Discharge	
25.06.2020	1	7.5		14		8		<5	1Ml	
	49.9	**0**	**170.3**	**0**	**83**	**0**	**0**			
Mean	**7.13**	**#DIV/0!**	**56.77**	**#DIV/0!**	**11.86**	**#DIV/0!**	**#DIV/0!**			
Lowest	**6.30**	**0.00**	**14.00**	**0.00**	**8.00**	**0.00**	**0.00**			
Highest	**8.40**	**0.00**	**140.00**	**0.00**	**22.00**	**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 Suspend Solids	Oxygen demand	Oil/Grease	Volume Discharged - KL	Comment
Jul-2019	**0**								Nil Discharge	
Aug-2019	0								Nil Discharge	
Sep-2019	0								Nil Discharge	
Oct-2019	0								Nil Discharge	
Nov-2019	0								Nil Discharge	
Dec-2019	0								Nil Discharge	
Jan-2020	0								Nil Discharge	
Feb-2020	0								Nil Discharge	
Mar-2020	0								Nil Discharge	
Apr-2020	0								Nil Discharge	
May-2020	0								Nil Discharge	
Jun-2020	0								Nil Discharge	
	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 11

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

Month	Number of Samples	pH	Electrical Conductivity	Turbidity	Total Dissolved Solids	Total Suspend Solids	Oxygen demand	Oil/Grease	Volume Discharged - KL	Comment
Jul-2019	0								Nil Discharge	
Aug-2019	0								Nil Discharge	
Sep-2019	0								Nil Discharge	
Oct-2019	0								Nil Discharge	
Nov-2019	0								Nil Discharge	
Dec-2019	0								Nil Discharge	
Jan-2020	0								Nil Discharge	
Feb-2020	0								Nil Discharge	
Mar-2020	0								Nil Discharge	
Apr-2020	0								Nil Discharge	
May-2020	0								Nil Discharge	
Jun-2020	0								Nil Discharge	
	0	**0**	**0**	**0**	**0**	**0**	**0**			
Mean		**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**		
Highest		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**		

Weather station results available upon request

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	30.01.2019	168	5 - trigger point >0.51	mm/s	Nil Trigger	√	Nil Trigger
Overpressure	Per Blast	30.01.2019	168	115 - Trigger point <100	dB	Nil Trigger	√	Nil Trigger
Ground Vibration	Per Blast	13.02.2019	169	5 - trigger point >0.51	mm/s	Nil Trigger	√	Nil Trigger
Overpressure	Per Blast	13.02.2019	169	115 - Trigger point <100	dB	Nil Trigger	√	Nil Trigger
Ground Vibration	Per Blast	27.02.2019	170	5 - trigger point >0.51	mm/s	Nil Trigger	√	Nil Trigger
Overpressure	Per Blast	27.02.2019	170	115 - Trigger point <100	dB	Nil Trigger	√	Nil Trigger
Ground Vibration	Per Blast	13.03.2019	171	5 - trigger point >0.51	mm/s	Nil Trigger	0.08	0.07
Overpressure	Per Blast	13.03.2019	171	115 - Trigger point <100	dB	Nil Trigger	101	109.2
Ground Vibration	Per Blast	10.04.2019	172	5 - trigger point >0.51	mm/s	Nil Trigger	√	Nil Trigger
Overpressure	Per Blast	10.04.2019	172	115 - Trigger point <100	dB	Nil Trigger	√	Nil Trigger
Ground Vibration	Per Blast	01.05.2019	173	5 - trigger point >0.51	mm/s	Nil Trigger	√	Nil Trigger
Overpressure	Per Blast	01.05.2019	173	115 - Trigger point <100	dB	Nil Trigger	√	Nil Trigger
Ground Vibration	Per Blast	08.05.2019	174	5 - trigger point >0.51	mm/s	Nil Trigger	√	Nil Trigger
Overpressure	Per Blast	08.05.2019	174	115 - Trigger point <100	dB	Nil Trigger	√	Nil Trigger
Ground Vibration	Per Blast	22.05.2019	175	5 - trigger point >0.51	mm/s	Nil Trigger	√	Nil Trigger
Overpressure	Per Blast	22.05.2019	175	115 - Trigger point <100	dB	Nil Trigger	√	Nil Trigger
Ground Vibration	Per Blast	03.07.2019	176	5 - trigger point >0.51	mm/s	Nil Trigger	√	Nil Trigger
Overpressure	Per Blast	03.07.2019	176	115 - Trigger point <100	dB	Nil Trigger	√	Nil Trigger
Ground Vibration	Per Blast	26.07.2019	177	5 - trigger point >0.51	mm/s	Nil Trigger	√	Nil Trigger
Overpressure	Per Blast	26.07.2019	177	115 - Trigger point <100	dB	Nil Trigger	√	Nil Trigger
Ground Vibration	Per Blast	14.08.2019	178	5 - trigger point >0.51	mm/s	Nil Trigger	√	Nil Trigger
Overpressure	Per Blast	14.08.2019	178	115 - Trigger point <100	dB	Nil Trigger	√	Nil Trigger
Ground Vibration	Per Blast	28.08.2019	179	5 - trigger point >0.51	mm/s	Nil Trigger	√	Nil Trigger
Overpressure	Per Blast	28.08.2019	179	115 - Trigger point <100	dB	Nil Trigger	√	Nil Trigger
Ground Vibration	Per Blast	10.09.2019	180	5 - trigger point >0.51	mm/s	Nil Trigger	√	Nil Trigger
Overpressure	Per Blast	10.09.2019	180	115 - Trigger point <100	dB	Nil Trigger	√	Nil Trigger
Ground Vibration	Per Blast	09.10.2019	181	5 - trigger point >0.51	mm/s	Nil Trigger	√	Nil Trigger
Overpressure	Per Blast	09.10.2019	181	115 - Trigger point <100	dB	Nil Trigger	√	Nil Trigger
Ground Vibration	Per Blast	23.10.2019	182 A & B	5 - trigger point >0.51	mm/s	Nil Trigger	√	Nil Trigger
Overpressure	Per Blast	23.10.2019	182 A & B	115 - Trigger point <100	dB	Nil Trigger	√	Nil Trigger
Ground Vibration	Per Blast	06.11.2019	183	5 - trigger point >0.51	mm/s	Nil Trigger	√	0.06
Overpressure	Per Blast	06.11.2019	183	115 - Trigger point <100	dB	Nil Trigger	√	101.0
Ground Vibration	Per Blast	04.12.2019	184	5 - trigger point >0.51	mm/s	Nil Trigger	√	Nil Trigger
Overpressure	Per Blast	04.12.2019	184	115 - Trigger point <100	dB	Nil Trigger	√	Nil Trigger
Ground Vibration	Per Blast	19.02.2020	185	5 - trigger point >0.51	mm/s	Nil Trigger	√	Nil Trigger
Overpressure	Per Blast	19.02.2020	185	115 - Trigger point <100	dB	Nil Trigger	√	Nil Trigger
Ground Vibration	Per Blast	26.02.2020	186 A + B	5 - trigger point >0.51	mm/s	Nil Trigger	√	Nil Trigger
Overpressure	Per Blast	26.02.2020	187 A + B	115 - Trigger point <100	dB	Nil Trigger	√	Nil Trigger
Ground Vibration	Per Blast	18.03.2020	187	5 - trigger point >0.51	mm/s	Nil Trigger	√	Nil Trigger
Overpressure	Per Blast	18.03.2020	187	115 - Trigger point <100	dB	Nil Trigger	√	Nil Trigger
Ground Vibration	Per Blast	08.04.2020	188	5 - trigger point >0.51	mm/s	Nil Trigger	√	Nil Trigger
Overpressure	Per Blast	08.04.2020	188	115 - Trigger point <100	dB	Nil Trigger	√	Nil Trigger
Ground Vibration	Per Blast	20.05.2020	189	5 - trigger point >0.51	mm/s	Nil Trigger	√	Nil Trigger
Overpressure	Per Blast	20.05.2020	189	115 - Trigger point <100	dB	Nil Trigger	√	Nil Trigger
Ground Vibration	Per Blast	16.06.2020	190	5 - trigger point >0.51	mm/s	Nil Trigger	√	Nil Trigger
Overpressure	Per Blast	16.06.2020	190	115 - Trigger point <100	dB	Nil Trigger	√	Nil Trigger

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	Comment
Month	Number of Samples										
13.06.2019	1	0.07	<0.001	0.0006	<0.001	0.16	<0.0001	<0.0001	0.037	0.14	
26.08.2019	1	0.166	0.0003	0.0007	0.0002	0.172	0.0001	<0.00001	0.039	0.135	
30.09.2019	1	0.38	<0.001	0.001	<0.001	0.56	<0.001	<0.0001	0.032	0.11	
27.11.2019	1	0.167	0.0003	0.001	0.0002	0.402	0.0001	0.00002	0.0533	0.146	
10.01.2020	1	0.1	<0.001	0.0008	<0.001	0.3	<0.001	<0.0001	0.041	0.13	
12.02.2020	1	0.495	0.0003	0.0008	0.0009	0.331	0.0005	<0.00001	0.0291	0.093	
20.05.2020	1	0.325	0.0002	0.0006	0.0005	0.331	0.0004	<0.00001	0.0312	0.072	
	Mean	**0.24**	**0.0003**	**0.0008**	**0.0005**	**0.32**	**0.0003**	**0.000020**	**0.04**	**0.12**	
	Lowest	**0.07**	**<0.001**	**0.0006**	**<0.001**	**0.16**	**<0.0001**	**<0.0001**	**0.03**	**0.07**	
	Highest	**0.50**	**0.0003**	**0.0010**	**0.0009**	**0.56**	**0.0005**	**0.000020**	**0.05**	**0.15**	

	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
03.04.2019	1	0.24	<0.001	<0.0002	<0.001	0.003	<0.001	<0.0001	0.001	0.034
13.06.2019	1	2.7	<0.001	<0.002	<0.001	0.01	<0.001	<0.001	0.015	0.019
30.09.2019	0	Nil results due to wetland being dry		N/A	N/A	N/A	N/A	N/A	N/A	N/A
10.01.2020	0	Nil results due to wetland being dry		N/A	N/A	N/A	N/A	N/A	N/A	N/A
08.04.2020	1	.29	<0.001	<0.0002	<0.001	0.073	0.001	<0.0001	0.008	0.024
17.06.2020	1	.59	<0.001	<0.0002	<0.001	0.032	0.001	<0.0001	0.014	0.096

	Pollutant							
EPL Point 1 - sump	Units of Measure	pH (wet) Range 5.3 to 7.0	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
Month	Number of Samples	pH	µS/cm	NTU	mg/l	Visible	Hours	KL
13.06.2019	1	4.1	395.6	4.05			Sample Only	Sample only / Nil Discharge
17.06.2019	1	5.7	443	2.4	<3	<5	24	6,825.6
26.08.2019	1	6.0	433	1.9	<3	<5	24	6,825.6
30.09.2019	1	3.9	415					Sample only / Nil Discharge
01.10.2019	1	6.1	437	2.8	3	<5	21	5,972.4
11.11.2019	1	6.0	471	3.2	4	<5	24	6,825.6
27.11.2019	1	6.1	488	2	<3	<5	24	6,825.6
10.01.2020	1	4.16	543					Sample only / Nil Discharge
13.01.2020	1	5.8	453	1.8	3	<5	24	6,825.6
23.01.2020	1	5.8	327	6.2	5	<5	24	6,825.6
05.02.2020	1	6.10	434	2.6	<3	<5	24	6,825.6
06.02.2020	1	6.10	421	3.2	6	<5	24	6,825.6
10.02.2020	1	6.3	248	18.0	15	<5	24	6,825.6
12.02.2020	1	5.9	249	6.9	5	<5	24	6,825.6
19.02.2020	1	7.0	244	4.6	6	<5	24	6,825.6
20.02.2020	1	6.5	244	3.9	5	<5	24	6,825.6
24.02.2020	1	6.6	247	3.8	6	<5	24	6,825.6
05.03.2020	1	6.3	305	2.9	5	<5	24	6,825.6
16.03.2020	1	6.4	285	11	11	<5	24	6,825.6
17.03.2020	1	5.8	286	13	12	<5	24	6,825.6
18.03.2020	1	5.8	302	8	8	<5	24	6,825.6
07.04.2020	1	6.0	331	2.4	5	<5	24	6,825.6

08.04.2020	1	5.9	339	3	6	<5	24	6,825.6
20.05.2020	1	6.5	375	3.7	6	<5	24	6,825.6
10.06.2020	1	5.7	358	6.2	7	<5	24	6,825.6
	Mean	**5.86**	**362.94**	**5.11**	**6.56**	**#DIV/0!**		
	Lowest	**3.86**	**244.00**	**1.80**	**3.00**	**0.00**		
	Highest	**7.00**	**543.00**	**18.00**	**15.00**	**0.00**		

142,484.4

Grant's Head Points 2 & 3		Standing Water Level Meters (mAHD)		Standing Water Level Metres (mAHD)
	Position ID	Quarterly	**Position ID**	Quarterly
14.06.2018	**MW05**	4.731	**MW06**	4.846
17.10.2018	**MW05**	4.749	**MW06**	4.854
11.01.2019	**MW05**	4.339	**MW06**	4.379
03.04.2019	**MW05**	4.152	**MW06**	4.129
13.06.2019	**MW05**	4.069	**MW06**	3.844
30.09.2019	**MW05**	3.179	**MW06**	2.864
10.01.2020	**MW05**	2.862	**MW06**	2.419
08.04.2020	**MW05**	4.884	**MW06**	4.879
17.06.2020	**MW05**	4.829	**MW06**	4.839
	Mean	**3.94**	Mean	**3.75**
	Lowest	**2.86**	Lowest	**2.42**
	Highest	**4.88**	Highest	**4.88**

Grant's Head Point 4	**Position ID**	Conductivity	pH	Standing Water Level	Aluminium	Arsenic	Cadmium	Chromium	Copper	Lead	Mercury	Nickel	Zinc
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
11.01.2019	NW01D	533.1	4.2	-3.64	0.41	<0.001	<0.0002	<0.001	0.018	0.002	<0.0001	0.028	0.055
03.04.2019	NW01D	421.6	5.19	-2.835	0.26	<0.001	<0.0002	<0.001	0.009	<0.001	<0.0001	0.005	0.035
13.06.2019	NW01D	442.3	4.39	-4.21	0.36	<0.001	<0.0002	<0.001	0.033	0.005	<0.0001	0.028	0.082
30.09.2019	NW01D	412	4.63	-2.88	0.12	<0.001	<0.0002	<0.001	0.01	0.001	<0.0001	0.012	0.05
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
11.01.2019	NW01S	477.3	5.00	-1.665	<0.05	<0.001	<0.0002	<0.001	<0.001	<0.001	<0.0001	0.032	0.046
03.04.2019	NW01S	384.8	5.66	-2.115	0.05	<0.001	<0.0002	<0.001	0.003	<0.001	<0.0001	0.003	0.024
13.06.2019	NW01S	393	5.43	-3.14	<0.05	<0.001	<0.0002	<0.001	0.012	0.001	<0.0001	0.009	0.08
30.09.2019	NW01S	397	5.41	-2.44	<0.05	<0.001	<0.0002	<0.001	0.021	0.002	<0.0001	0.01	0.097
10.01.2020	NW01S	437.5	5.57	-2.815	<0.05	<0.001	<0.0002	<0.001	<0.001	<0.001	<0.0001	0.002	<0.005
08.04.2020	NW01S	374.9	5.14	-0.245	<0.05	<0.001	<0.0002	<0.001	0.011	<0.001	<0.0001	0.006	0.061
17.06.2020	NW01S	380	5.25	-0.315	<0.05	<0.001	<0.0002	<0.001	0.016	<0.001	<0.0001	0.012	0.046
30.09.2019	NW01D	412	4.63	-2.88	0.12	<0.001	<0.0002	<0.001	0.01	0.001	<0.0001	0.012	0.05
10.01.2020	NW01D	456.1	4.66	-3.03	0.06	<0.001	<0.0002	<0.001	0.009	<0.001	<0.0001	0.005	0.036
08.04.2020	NW01D	402.5	4.54	-0.8	0.08	<0.001	<0.0002	<0.001	0.028	0.002	<0.0001	0.016	0.11
17.06.2020	NW01D	408	4.56	-0.83	0.09	<0.001	<0.0002	<0.001	0.014	<0.001	<0.0001	0.016	0.067
	NW01S		Mean	**-1.45**	NW01D	Mean	**-1.89**						
	NW01S		Lowest	**-2.82**	NW01D	Lowest	**-3.03**						
	NW01S		Highest	**-0.25**	NW01D	Highest	**-0.80**						

Grant's Head Point 5	**Position ID**	Conductivity	pH	Standing Water Level	Aluminium	Arsenic	Cadmium	Chromium	Copper	Lead	Mercury	Nickel	Zinc
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
11.01.2019	NW02D	929	5.84	-0.515	<0.05	0.003	<0.0002	<0.001	<0.001	<0.001	<0.0001	0.016	0.009
03.04.2019	NW02D	742.5	6.73	-0.635	0.18	<0.001	<0.0002	<0.001	0.006	<0.001	<0.0001	0.001	0.011
13.06.2019	NW02D	749	6.2	-0.795	<0.05	0.003	<0.0002	<0.001	0.017	0.002	<0.0001	0.022	0.034
30.06.2019	NW02D	746	6.1	-0.725	<0.05	0.005	<0.0002	<0.001	0.02	0.002	<0.0001	0.021	0.085
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
11.01.2019	NW02S	376.7	4.03	-8.88	<0.05	<0.001	<0.0002	<0.001	0.025	0.003	<0.0001	0.021	0.056
03.04.2019	NW02S	290.1	4.55	-8.97	<0.05	<0.001	<0.0002	<0.001	0.007	<0.001	<0.0001	0.013	0.008
13.06.2019	NW02S	275.3	4.27	-9.08	0.13	<0.001	<0.0002	<0.001	0.027	0.002	<0.0001	0.009	0.1
30.09.2019	NW02S	286	4.17	-9.39	0.06	<0.001	<0.0002	<0.001	0.016	0.002	<0.0001	0.007	0.081
10.01.2020	NW02S	326.1	4.16	-9.735	0.05	<0.001	<0.0002	<0.001	0.01	<0.001	<0.0001	0.011	0.095
08.04.2020	NW02S	303.2	4.12	-8.66	0.46	<0.001	<0.0002	<01.001	0.007	<0.001	<0.0001	0.019	0.22
17.06.2020	NW02S	315	4.12	-8.66	0.17	<0.001	<0.0002	<0.001	0.016	<0.001	<0.0001	0.01	0.046
30.09.2019	NW02D	746	6.1	-0.725	<0.05	0.005	<0.0002	<0.001	0.02	0.002	<0.0001	0.021	0.085
10.01.2020	NW02D	792	6.09	-0.945	<0.05	0.004	<0.0002	<0.001	0.002	<0.001	<0.0001	0.016	0.024
08.04.2020	NW02D	768	6.12	0.255	<0.05	0.004	<0.0002	<0.001	0.012	<0.001	<0.0001	0.017	0.041
17.06.2020	NW02D	753	6.18	0.265	<0.05	0.005	<0.0002	<0.001	0.011	<0.001	<0.0001	0.022	0.043
	NW02S		Mean	**-9.11**	NW02S	Mean	**-0.29**						
	NW02S		Lowest	**-9.74**	NW02S	Lowest	**-0.95**						
	NW02S		Highest	**-8.66**	NW02S	Highest	**0.27**						

Grant's Head Point 6	**Position ID**	Conductivity	pH	Standing Water Level	Aluminium	Arsenic	Cadmium	Chromium	Copper	Lead	Mercury	Nickel	Zinc
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
11.01.2019	NW03D	844	5.3	-31.935	<0.05	<0.001	<0.0002	<0.001	0.003	<0.001	<0.0001	0.023	0.046
03.04.2019	NW03D	1024	6.1	-31.645	<0.05	<0.001	<0.0002	<0.001	0.03	0.002	<0.0001	0.025	0.068
13.06.2019	NW03D	919	5.52	-31.12	<0.05	<0.001	<0.0002	<0.001	<0.001	<0.001	<0.0001	0.027	0.058
30.09.2019	NW03D-A	425	5.82	N/A	<0.05	<0.001	0.0003	<0.001	0.02	0.001	<0.0001	0.014	0.17
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
11.01.2019	NW03S	N/A	N/A	-11.09	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
03.04.2019	NW03S	351	4.85	-10.3	0.06	<0.001	<0.0002	<0.001	0.001	<0.001	<0.0001	<0.001	0.008
13.06.2019	NW03S	379	5.39	-10.62	<0.05	<0.001	<0.0002	<0.001	<0.001	<0.001	<0.0001	<0.001	0.014
30.09.2019	NW03S-A	432	4.92	-12.125	<0.05	0.005	<0.0002	<0.001	0.038	0.002	<0.0001	0.011	0.095
10.01.2020	NW03S-A	475.8	5.17	-12.435	<0.05	0.004	<0.0002	<0.001	0.002	<0.001	<0.0001	0.005	0.015
08.04.2020	NW03S-A	444	5.2	-11.725	<0.05	0.005	<0.0002	<0.001	0.017	<0.001	<0.0001	0.011	0.058
17.06.2020	NW03S-A	435	5.16	-11.815	<0.05	0.006	<0.0002	<0.001	0.012	<0.001	<0.0001	0.015	0.074
30.09.2019	NW03D-A	425	5.82	-12.455	<0.05	<0.001	0.0003	<0.001	0.02	0.001	<0.0001	0.014	0.17
10.01.2020	NW03D-A	811	6.4	-12.61	<0.05	0.003	<0.0002	<0.001	0.004	<0.001	<0.0001	0.018	0.057
08.04.2020	NW03D-A	836	6.59	-11.875	<0.05	0.004	<0.0002	<0.001	0.015	0.001	,0.0001	0.011	0.058
17.06.2020	NW03D-A	846	6.63	-11.945	<0.05	0.005	<0.0002	<0.001	0.012	<0.001	<0.0001	0.028	0.044
	NW03S-A		Mean	**-12.03**	NW03D-A	Mean	**-6.11**						
	NW03S-A		Lowest	**-12.44**	NW03D-A	Lowest	**-12.61**						
	NW03S-A		Highest	**-11.73**	NW03D-A	Highest	**-11.88**						

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	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	05.02.2019	5 - trigger point >0.27	5 - trigger point >0.30	**3.55**	**3.17**	#125
Overpressure	Per Blast	05.02.2019	115 - Trigger point >100	115 - Trigger point >100	**109.8**	**114.6**	#125
Ground Vibration	Per Blast	22.01.2020	5 - trigger point >0.27	5 - trigger point >0.30	**3.07**	**Nil Trigger**	#126
Overpressure	Per Blast	22.01.2020	115 - Trigger point >100	115 - Trigger point >100	**105.7**	**Nil Trigger**	#126
Ground Vibration	Per Blast	09.04.2020	5 - trigger point >0.27	5 - trigger point >0.30	**Nil Trigger**	**Nil Trigger**	#127
Overpressure	Per Blast	09.04.2020	115 - Trigger point >100	115 - Trigger point >100	**Nil Trigger**	**Nil Trigger**	#127
Ground Vibration	Per Blast	25.06.2020	5 - trigger point >0.27	5 - trigger point >0.30	**1.7**	**Nil Trigger**	#128
Overpressure	Per Blast	25.06.2020	115 - Trigger point >100	115 - Trigger point >100	**111.5**	**Nil Trigger**	#128

Tumbulgum EPL 3430

Tumbulgum Point 1	WM 1	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	
Month	Number of Samples	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	Why Sampled - Discharge or Random?
Jul-2019	0						Nil Discharge
Aug-2019	0						Nil Discharge
Sep-2019	0						Nil Discharge
Oct-2019	0						Nil Discharge
Nov-2019	0						Nil Discharge
Dec-2019	0						Nil Discharge
20.01.2020	1		<2	13	4.3		250mm rain event
Feb-2020							
Mar-2020							
Apr-2020							
May-2020							
Jun-2020							

Tumbulgum Point 2	WM 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	
Month	Number of Samples	Frequency		Monthly during discharge	<24hrs prior to discharge	Daily when wastes (water) discharged Klitres per day	Why Sampled - Discharge or Random?
Jul-2019	0						Nil Discharge
Aug-2019	0						Nil Discharge
Sep-2019	0						Nil Discharge
Oct-2019	0						Nil Discharge
Nov-2019	0						Nil Discharge
Dec-2019	0						Nil Discharge
20.01.2020	1		<2	13	4.3		250mm rain event
February	0						300+mm
Mar-2020							
Apr-2020							
May-2020							
Jun-2020							

Tumbulgum Additional to EPL requirements testing sites	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	
Date	Sample location	Number of Samples		Monthly during discharge	<24hrs prior to discharge	Daily when wastes (water) discharged Klitres per day	Why Sampled - Discharge or Random?
11.02.2020	SB3	1	<2	4.8	3.9		300+mm Rainfall
13.03.2020	Pit	1	<2	2	3.3		

Tumbulgum EPL 3430

Tumbulgum Blast Monitoring results

Blasting	Frequency	Date	Limits	Units of measure	Loc # 1 - 43 Pollard Rd	Loc # 2 - 2 Pollard Rd	Loc # 3 - 729 - 731 Dulguigan Rd	Blast #
Ground Vibration	Per Blast	12.06.2018	5 - trigger point >0.26	mm/s	1.02	1.17	Not required	#39
Overpressure	Per Blast	12.06.2018	Max 115 - Trigger point >100	dB	107.5	104.2	Not required	#39
Ground Vibration	Per Blast	02.07.2018	5 - trigger point >0.26	mm/s	1.27	1.29	Not required	#40
Overpressure	Per Blast	02.07.2018	Max 115 - Trigger point >100	dB	101.9	107.0	Not required	#40
Ground Vibration	Per Blast	28.09.2018	5 - trigger point >0.26	mm/s	0.52	0.76	Not required	#41
Overpressure	Per Blast	28.09.2018	Max 115 - Trigger point >100	dB	106	106.0	Not required	#41
Ground Vibration	Per Blast	16.10.2018	5 - trigger point >0.26	mm/s	0.71	0.58	Not required	#42
Overpressure	Per Blast	16.10.2018	Max 115 - Trigger point >100	dB	106.0	108.0	Not required	#42
Ground Vibration	Per Blast	25.01.2019	5 - trigger point >0.26	mm/s	0.74	0.49	Not required	#43
Overpressure	Per Blast	25.01.2019	Max 115 - Trigger point >100	dB	103.5	106	Not required	#43
Ground Vibration	Per Blast	30.04.2019	5 - trigger point >0.26	mm/s	0.6	0.95	Not required	#44
Overpressure	Per Blast	30.04.2019	Max 115 - Trigger point >100	dB	104.9	102.8	Not required	#44
Ground Vibration	Per Blast	30.04.2019	5 - trigger point >0.26	mm/s	No Trigger	No Trigger	Not required	#45
Overpressure	Per Blast	30.04.2019	Max 115 - Trigger point >100	dB	No Trigger	No Trigger	Not required	#45
Ground Vibration	Per Blast	21.06.2019	5 - trigger point >0.26	mm/s	1.1	0.83	Not required	#46
Overpressure	Per Blast	21.06.2019	Max 115 - Trigger point >100	dB	104.2	108	Not required	#46
Ground Vibration	Per Blast	02.08.2019	5 - trigger point >0.26	mm/s	0.51	0.71	Not required	#47
Overpressure	Per Blast	02.08.2019	Max 115 - Trigger point >100	dB	106.0	107.0	Not required	#47
Ground Vibration	Per Blast	06.09.2019	5 - trigger point >0.26	mm/s	No Trigger	0.32	Not required	#48
Overpressure	Per Blast	06.09.2019	Max 115 - Trigger point >100	dB	No Trigger	104.9	Not required	#48
Ground Vibration	Per Blast	06.09.2019	5 - trigger point >0.26	mm/s	0.48	0.89	Not required	#49
Overpressure	Per Blast	06.09.2019	Max 115 - Trigger point >100	dB	104.2	103.5	Not required	#49
Ground Vibration	Per Blast	23.10.2019	5 - trigger point >0.26	mm/s	0.81	1.06	Not required	#50
Overpressure	Per Blast	23.10.2019	Max 115 - Trigger point >100	dB	107.5	104.2	Not required	#50
Ground Vibration	Per Blast	23.10.2019	5 - trigger point >0.26	mm/s	0.81	1.06	Not required	#51
Overpressure	Per Blast	23.10.2019	Max 115 - Trigger point >100	dB	107.5	104.2	Not required	#51
Ground Vibration	Per Blast	20.01.2020	5 - trigger point >0.26	mm/s	0.73	0.86	Not required	#52
Overpressure	Per Blast	20.01.2020	Max 115 - Trigger point >100	dB	105.5	104.2	Not required	#52
Ground Vibration	Per Blast	18.02.2020	5 - trigger point >0.26	mm/s	0.44	0.73	Not required	#53
Overpressure	Per Blast	18.02.2020	Max 115 - Trigger point >100	dB	105.5	102.8	Not required	#53
Ground Vibration	Per Blast	18.02.2020	5 - trigger point >0.26	mm/s	0.44	0.73	Not required	#54
Overpressure	Per Blast	18.02.2020	Max 115 - Trigger point >100	dB	105.5	102.8	Not required	#54
Ground Vibration	Per Blast	18.02.2020	5 - trigger point >0.26	mm/s	0.44	0.73	Not required	#55
Overpressure	Per Blast	18.02.2020	Max 115 - Trigger point >100	dB	105.5	102.8	Not required	#55
Ground Vibration	Per Blast	26.03.2020	5 - trigger point >0.26	mm/s	0.38	1.79	Not required	#56
Overpressure	Per Blast	26.03.2020	Max 115 - Trigger point >100	dB	106.5	109.5	Not required	#56
Ground Vibration	Per Blast	03.04.2020	5 - trigger point >0.26	mm/s	0.43	0.47	Not required	#57
Overpressure	Per Blast	03.04.2020	Max 115 - Trigger point >100	dB	103.5	98.8	Not required	#57
Ground Vibration	Per Blast	03.04.2020	5 - trigger point >0.26	mm/s	0.74	0.47	Not required	#58
Overpressure	Per Blast	03.04.2020	Max 115 - Trigger point >100	dB	101.4	95.9	Not required	#58
Ground Vibration	Per Blast	08.05.2020	5 - trigger point >0.26	mm/s	0.51	0.84	Not required	#59

Overpressure	Per Blast	08.05.2020	Max 115 - Trigger point >100	dB	88.0	104.2	Not required	#59
Ground Vibration	Per Blast	08.05.2020	5 - trigger point >0.26	mm/s	0.29	0.32	Not required	#60
Overpressure	Per Blast	08.05.2020	Max 115 - Trigger point >100	dB	88.0	106.0	Not required	#60
Ground Vibration	Per Blast	22.06.2020	5 - trigger point >0.26	mm/s	0.69	0.78	Not required	#61
Overpressure	Per Blast	22.06.2020	Max 115 - Trigger point >100	dB	103.5	103.5	Not required	#61

Yarrabee Rd Quarry - Licence Number 11462

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**	
Month	**Number of Samples**	**Frequency**	<24hrs prior to discharge	<24hrs prior to discharge	Daily when wastes (water) discharged Litres per day	
06.03.2017	1		7	8.2	0	Sample only
01.05.2017	1		<3	8.9	0	Sample only
29.11.2017	1		30	8.3	0	Sample only
08.03.2018	1		5	7.8	0	Sample only
29.10.2018	1		4	7.9	0	Sample only
31.01.2019	1		<3	8.1	0	Sample only
16.10.2019	1		10	8.8	0	Sample only
02.03.2020	1		6	8.4		
10.06.2020	1		24	8		Sample Only
Number of samples	9					
Mean			**13.33**	**8.40**	-	
Lowest			**6.00**	**8.00**	-	
Highest			**24.00**	**8.80**	-	

Yarrabee Rd Quarry - Licence Number 11462

Blasting	**Frequency**	Date	Limits	Units of measure	Results	Blast #	Blast ID
Ground Vibration	Per Blast	03.07.2018	5 - trigger point >0.50	mm/s	**0.80**	#75	YRQ-1804
Overpressure	Per Blast	03.07.2018	Max 115 - Trigger point >100dB	dB	**111.0**	#75	YRQ-1804
Ground Vibration	Per Blast	31.07.2018	5 - trigger point >0.50	mm/s	**1.37**	#76	YRQ-1805
Overpressure	Per Blast	31.07.2018	Max 115 - Trigger point >100dB	dB	**114.3**	#76	YRQ-1805
Ground Vibration	Per Blast	17.09.2018	5 - trigger point >0.50	mm/s	**0.77**	#77	YRQ-1806
Overpressure	Per Blast	17.09.2018	Max 115 - Trigger point >100dB	dB	**106.3**	#77	YRQ-1806
Ground Vibration	Per Blast	30.10.2018	5 - trigger point >0.50	mm/s	**Nil Trigger**	#78	YRQ-1807
Overpressure	Per Blast	30.10.2018	Max 115 - Trigger point >100dB	dB	**Nil Trigger**	#78	YRQ-1807
Ground Vibration	Per Blast	20.11.2018	5 - trigger point >0.50	mm/s	**0.56**	#79	YRQ-1808
Overpressure	Per Blast	20.11.2018	Max 115 - Trigger point >100dB	dBl	**108.8**	#79	YRQ-1808
Ground Vibration	Per Blast	21.01.2019	5 - trigger point >0.50	mm/s	**0.65**	#80	YRQ-1901
Overpressure	Per Blast	21.01.2019	Max 115 - Trigger point >100dB	dBl	**110.2**	#80	YRQ-1901
Ground Vibration	Per Blast	06.03.2019	5 - trigger point >0.50	mm/s	**0.87**	#81	YRQ-1902
Overpressure	Per Blast	06.03.2019	Max 115 - Trigger point >100dB	dBl	**103.9**	#81	YRQ-1902
Ground Vibration	Per Blast	15.04.2019	5 - trigger point >0.50	mm/s	**0.84**	#82	YRQ-1903
Overpressure	Per Blast	15.04.2019	Max 115 - Trigger point >100dB	dBl	**110.2**	#82	YRQ-1903
Ground Vibration	Per Blast	19.07.2019	5 - trigger point >0.50	mm/s	**0.71**	#83	YRQ-1904
Overpressure	Per Blast	19.07.2019	Max 115 - Trigger point >100dB	dBl	**107.8**	#83	YRQ-1904
Ground Vibration	Per Blast	20.09.2019	5 - trigger point >0.30	mm/s	**Nil Trigger**	#84.	YRQ-1905
Overpressure	Per Blast	20.09.2019	Max 115 - Trigger point >100dB	dBl	**Nil Trigger**	#84	YRQ-1905
Ground Vibration	Per Blast	14.01.2020	5 - trigger point >0.30	mm/s	**Nil Trigger**	#85	YRQ-2001
Overpressure	Per Blast	14.01.2020	Max 115 - Trigger point >100dB	dBl	**Nil Trigger**	#85	YRQ-2001
Ground Vibration	Per Blast	31.03.2020	5 - trigger point >0.30	mm/s	**Nil Trigger**	#86	YRQ-2002
Overpressure	Per Blast	31.03.2020	Max 115 - Trigger point >100dB	dBl	**Nil Trigger**	#86	YRQ-2002
Ground Vibration	Per Blast	26.05.2020	5 - trigger point >0.30	mm/s	**1.02**	#87	YRQ-2003
Overpressure	Per Blast	26.05.2020	Max 115 - Trigger point >100dB	dBl	**104.3**	#87	YRQ-2003