

#### Pollution Monitoring Data - Holcim Lynwood Quarry (EPL Number 12939)

Facility Address	278 Stoney Creek Road, Marulan, NSW, 2579
Link to EPL on Public Register	https://apps.epa.nsw.gov.au/prpoeoapp/Detail.aspx?instid=12939&id=12939&option=licence&searchrange=licence⦥=POEO%20licence&prp=no&status=lssued
Date Dataset Updated	Wednesday, December 8, 2021
Date Dataset Published	Thursday December 9, 2021

#### Air Quality Monitoring - Hi Volume Sampler Results

Note(s) DNT = Did Not Trigger

Location	Frequency	Source	Lower Limit	Upper Limit	Unit				Description			
HVAS1	24hr average (every 6 days)	EPL	-	50	μg/m3			Particula	te Matter < 10 μn	n (PM10)		
Month	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Result (Mea	<b>n)</b> 10.0	7.3	6.2	6.2	3.0	3.2	3.5	5.2	15.5			
Pass / Fai	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass			
				Comm	nents regarding H	i Volume monitori	ng outcomes at H	VAS 1				
Comment 1:												
Comment 2:												
Comment 3:												

Location	Frequency	Source	Lower Limit	Upper Limit	Unit				Description			
HVAS2	24hr average (every 6 days)	EPL	-	50	μg/m3			Particula	ite Matter < 10 μm	(PM10)		
Month	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Result (Mean)	10.0	8.8	7.1	15.0	5.2	6.2	5.4	8.5	14.1			
Pass / Fail	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass			
				Comm	nents regarding H	i Volume monitori	ng outcomes at H	VAS 1				
Comment 1:												
Comment 2:												
Comment 3:												

0.5

## Air Quality Monitoring - Deposition Results

Location	Frequency	Source	Lower Limit	Upper Limit	Unit	Doscr	iption	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Location	rrequericy	Source	Lower Lillit	Opper Limit	Offic	Desci	iption	Date											
DD 5	Manth	EPL		4		Insoluble	Result	0.7	n/a	2.7	0.6	0.9	0.6	0.6	0.4	0.3	0.7		
DD 5	Monthly	Section P1	-	4	mg/m2/month	Solids	Pass / Fail	Pass	Fail	Pass									
DD 8	Monthly	EPL		4	mg/m2/month	Insoluble	Result	1.7	1.7	0.4	0.3	0.2	0.2	0.2	0.2	0.3	0.5		
000	Monthly	Section P1	-	4	mg/mz/monu	Solids	Pass / Fail	Pass											
DD44	Manth	EPL		4		Insoluble	Result	0.6	0.8	0.4	0.6	0.4	1	1	0.7	3.4	1.5		
DD11	Monthly	Section P1	-	4	mg/m2/month	Solids	Pass / Fail	Pass											
DD12	Monthly	EPL		4		Insoluble	Result	0.6	1.1	0.7	0.4	2.0	0.7	0.7	0.3	0.3	0.7		
0012	Monthly	Section P1	-	4	mg/m2/month	Solids	Pass / Fail	Pass											
DD13	Monthly	EPL		4	mg/m2/month	Insoluble	Result	2.1	0.9	0.8	1.2	0.2	0.3	0.3	0.3	0.3	0.6		
נוטט	ivioritrily	Section P1	_	4	mg/mz/monu	Solids	Pass / Fail	Pass											

	Comments regarding deposition monitoring outcomes
Comment 1:	26/2 - unable to reach location due to flooding
Comment 2:	
Comment 3:	

## Noise Monitoring Results

Location	Frequency	Source	Lower Limit	Upper Limit	Unit	Descr	ption	<b>Q1</b> Sample Date	Q2 Sample Date	<b>Q3</b> Sample Date	<b>Q4</b> Sample Date
			_	35	dB	LAeq (15 min)	Result	33	35	25	30
				33	ub	Day	Pass / Fail	Pass	Pass	Pass	Pass
			_	35	dB	LAeq (15 min)	Result		30	30	35
NAL 1	Quarterly	EPL		33	<u>ub</u>	Evening	Pass / Fail		Pass	Pass	Pass
ck Rd, Marula	quartorry	Section L3	_	35	dB	LAeq (15 min)	Result	30	30	30	
				00	<u> </u>	Night	Pass / Fail	Pass	Pass	Pass	
			_	45	dB	LA1 (1 min)	Result	40	40	45	
				10		Night	Pass / Fail	Pass	Pass	Pass	
Location	Frequency	Source	Lower Limit	Upper Limit	Unit	Descr	ntion	Q1	Q2	Q3	Q4
Location	rrequericy	Jource	Lower Limit	Opper Limit	Onit	Desci	ption	Sample Date	Sample Date	Sample Date	Sample Date
			_	35	dB	LAeq (15 min)	Result	30	35	30	30
			_	00	νυ 	Day	Pass / Fail	Pass	Pass	Pass	Pass
			_	37	dB	LAeq (15 min)	Result		37	30	37
NAL 2	Quarterly	EPL		57	UD	Evening	Pass / Fail		Pass	Pass	Pass
lura Dr, Maru	Quarterry	Section L3	_	36	dB	LAeq (15 min)	Result	30	35	36	36
			_	30	uв	Night	Pass / Fail	Pass	Pass	Pass	Pass
			_	46	dB	LA1 (1 min)	Result	40	46	46	46
			_	40	uв	Night	Pass / Fail	Pass	Pass	Pass	Pass
Location	Eroguenov	Source	Lower Limit	Hanar Limit	Unit	Descr	ntion	Q1	Q2	Q3	Q4
Location	Frequency	Source	Lower Limit	Upper Limit	Ollit	Desci	ption	Sample Date	Sample Date	Sample Date	Sample Date
			_	35	dB	LAeq (15 min)	Result	32	35	30	35
				33	uв	Day	Pass / Fail	Pass	Pass	Pass	Pass
			_	35	dB	LAeq (15 min)	Result	32	35	35	35
NAL 3	Quarterly	EPL	_	33	uв	Evening	Pass / Fail		Pass	Pass	Pass
038 Hume Hig	Quarterry	Section L3	_	35	dB	LAeq (15 min)	Result	35	35	35	35
			-	35	uв	Night	Pass / Fail	Pass	Pass	Pass	Pass
			_	47	dB	LA1 (1 min)	Result	41	45	47	47
			_	47	uв	Night	Pass / Fail	Pass	Pass	Pass	Pass
Location	Frequency	Source	Lower Limit	Upper Limit	Unit	Descr	ntion	Q1	Q2	Q3	Q4
Location	rrequency	Source	Lower Limit	Opper Limit	Ollit	Desci	ption	Sample Date	Sample Date	Sample Date	Sample Date
				27	dD	LAeq (15 min)	Result	30	37	30	37
			-	37	dB	Day	Pass / Fail	Pass	Pass	Pass	Pass
				27	40	LAeq (15 min)	Result		37	30	30
NAL 4	Ou out a mile a	EPL	_	37	dB	Evening	Pass / Fail		Pass	Pass	Pass
nd Suffolk Roa	Quarterly	Section L3		20	שר	LAeq (15 min)	Result	30	31	36	30
			-	36	dB	Night	Pass / Fail	Pass	Pass	Pass	Pass
				47	<b>ا</b> له	LA1 (1 min)	Result		41	47	47
			-	47	dB	Night	Pass / Fail		Pass	Pass	Pass
								Comments regarding noise monitoring out	tcomes		
	The LAea (Even	ing and Night) f	requency assess	ment is annual.							
Comment 1:	(										
Comment 1:			<u> </u>								

#### **Blast Monitoring Results**

Note(s)

DNT <(X)dB = Did Not Trigger with monitoring equipment set at a trigger point of "X"dB

DNT <(X)mm/s = Did Not Trigger with monitoring equipment set at a trigger point of "X"mm/s

Location	Frequency	Source	Required For:	Lower Limit	Upper Limit	Unit	Description	
B1	Per Blast	EPL	Ignimbrite	-	115	dB (Lin Peak)	Over Pressure	
Rail	Pel Blast	Section L4	ignimbrite	-	5	mm/s	Ground Vibration	
B2 Pipeline	Per Blast	EPL	Ignimbrite	-	115	dB (Lin Peak)	Over Pressure	
Pipeline	Fel DidSt	Section L4	ignimbrite	-	5	mm/s	Ground Vibration	
В3	Per Blast	EPL	Ignimbrite	-	115	dB (Lin Peak)	Over Pressure	
Resident	rei biast	Section L4	ignimbrite	-	5	mm/s	Ground Vibration	

Blast Monitoring Results at Granite Pit - January 2021

Location	Frequency	Source	Required For:	Lower Limit	Upper Limit	Unit	Description	12/01/2021	14/01/2021	19/01/2021	22/01/2021	28/01/2021	29/01/2021	04/02/2021	09/02/2021	11/02/2021	16/2/2021	23/02/2021
					115	dB (Lin Peak)	Over	DNT <100dB										
E7246	Per Blast	EPL	Granite	-	115	ub (Lili Peak)	Pressure	Pass										
ameron / Residen	Pei biasi	EPL	Granite		F	mm/a	Ground	DNT <0.5mm/s										
				-	5	mm/s	Vibration	Pass										
					115	dB (Lin Peak)	Over	DNT <100dB										
E7245	Per Blast	EPL	Granite	-	115	ub (Liii Feak)	Pressure	Pass										
keyersleigh/Resid	rei biasi	CPL	Granite		5	mm/s	Ground	DNT <0.5mm/s										
				-	5	11111/5	Vibration	Pass										
					5	mm/s	Ground	DNT <0.5mm/s	1	DNT <0.5mm/s	DNT <0.5mm/s	DNT <0.5mm/s						
E7244	Per Blast	EPL	Granite	-	5	11111/5	Vibration	Pass										
Rail/Pipeline	rei biast	EPL	Granite		5	mm/s	Ground	DNT <0.5mm/s	1	DNT <0.5mm/s	DNT <0.5mm/s	DNT <0.5mm/s						
				=	3	11111/5	Vibration	Pass										

Blast Monitoring Results at Granite Pit - February 2021

Location	Frequency	Source	Required For:	Lower Limit	Upper Limit	Unit	Description	25/02/2021	02/03/2021	04/03/2021	09/03/2021	11/03/2021	16/03/2021	23/03/2021	30/03/2021	13/04/2021	15/04/2021
					115	dB (Lin Peak)	Over	DNT <100db									
B4	Per Blast	EPL	Granite	-	115	ub (Lili Peak)	Pressure	Pass									
Resident	Pei biasi	EPL	Granite		E	mm/s	Ground	DNT <0.5mm/s									
				-	5	11111/5	Vibration	Pass									
					115	dB (Lin Peak)	Over	DNT <100db	DNT <100db	DNT <100db	106.7 db	DNT <100db	DNT <100db	91.5 db	80.6db	DNT <100db	DNT <100db
B5	Per Blact	EPL	Granite	_	113	ub (Lili Feak)	Pressure	Pass									
Resident	I Dor Blact I	EPL	Granite		5	mm/s	Ground	DNT <0.5mm/s	DNT <0.5mm/s	DNT <0.5mm/s	0.57 mm/s	DNT <0.5mm/s	DNT <0.5mm/s	0.71mm/s	0.65mm/s	DNT <0.5mm/s	DNT <0.5mm/s
				_	3	11111/5	Vibration	Pass									
					5	mm/s	Ground	DNT <0.5mm/s	DNT <0.5mm/s	1	0.95 mm/s	DNT <0.5mm/s	1.61 mm/s	1.27mm/s	0.95mm/s	0.79 mm/s	DNT <0.5mm/s
В6	Per Blast	EPL	Granite	-	3	11111/1/5	Vibration	Pass									
Rail	F GI DIASI	LFL	Granite		5	mm/s	Ground	DNT <0.5mm/s	DNT <0.5mm/s	1	0.95 mm/s	DNT <0.5mm/s	1.61 mm/s	1.27mm/s	0.95mm/s	0.79mm/s	DNT <0.5mm/s
				_		11111/5	Vibration	Pass									

#### **Blast Monitoring Results**

Note(s) DNT <(X)dB = Did Not Trigger with monitoring equipment set at a trigger point of "X"dB

DNT <(X)mm/s = Did Not Trigger with monitoring equipment set at a trigger point of "X"mm/s

Blast Monitoring Results at Granite Pit - March 2021

	Diast Monitor	illy Results at	Granne Fit -	Mai Cii 202 i														
	Location	Frequency	Source	Required For:	Lower Limit	Upper Limit	Unit	Description	20/04/2021	27/04/2021	29/04/2021	03/05/2021	06/05/2021	17/05/2021	20/05/2021	25/05/2021	27/05/2021	01/06/2021
						115	dB (Lin Peak)	Over	DNT <100db									
	B4		EPL	Granite	-	115	ub (Lili Peak)	Pressure	Pass									
	Resident Per Blast	rei biasi	EFL	Granite		_	mm/a	Ground	DNT <0.5mm/s									
				-	5	mm/s	Vibration	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	
						115	dB (Lin Peak)	Over	DNT <100db	DNT <100db	DNT <100db	111.9db	DNT <100db					
	B5 Bor Plant	Dor Bloot	EPL	Granite	-	115	ub (Lili Peak)	Pressure	Pass									
	Resident Per Blast	Pel Blast	EPL	Granite		-	mm/a	Ground	DNT <0.5mm/s	DNT <0.5mm/s	DNT <0.5mm/s	0.13mm/s	DNT <0.5mm/s					
					-	5	mm/s	Vibration	Pass									

						-	mm/o	Ground	DNT <0.5mm/s	0.69mm/s	DNT <0.5mm/s	0.72mm/s	0.59mm/s	1.10mm/s	0.77 mm/s	DNT <0.5mm/s	DNT <0.5mm/s	0.93mm/s
	В6	Der Bleet	EDI	Cronito	-	5	mm/s	Vibration	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass
	Rail Per Blast	EPL	Granite		5	mm/s	Ground	DNT<0.5mm/s	0.69mm/s	DNT <0.5mm/s	0.72mm/s	0.59mm/s	1.10mm/s	0.77 mm/s	DNT <0.5mm/s	DNT <0.5mm/s	0.93mm/s	
				=	3	mm/s	Vibration	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	

Blast Monitoring Results at Granite Pit - April 2021

Location	Frequency	Source	Required For:	Lower Limit	<b>Upper Limit</b>	Unit	Description	08/06/2021	10/06/2021	15/06/2021	17/06/2021	22/06/2021	24/06/2021	29/06/2021	01/07/2021
					115	dP (Lin Book)	Over	DNT <100db	DNT <100db	DNT <100db	DNT<100db	DNT <100db	DNT <100db	DNT <100db	DNT <100db
B4	Per Blast	EPL	Granite	-	115	dB (Lin Peak)	Pressure	Pass							
Resident	Pei biasi	EPL	Granite		5	mm/s	Ground	DNT <0.5mm/s							
				-	5	11111/5	Vibration	Pass							
					115	dB (Lin Peak)	Over	DNT <100db							
B5	Per Blast	EPL	Granite	-	115	ub (Lili Feak)	Pressure	Pass							
Resident	Pel biast	EFL	Granite		5	mm/s	Ground	DNT <0.5mm/s							
				-	5	11111/5	Vibration	Pass							
					5	mm/s	Ground	DNT <0.5mm/s	DNT <0.5mm/s	0.82mm/s	0.70mm/s	0.64mm/s	DNT <0.5mm/s	0.78mm/s	DNT <0.5mm/s
B6	Per Blast	EPL	Granite	-	5	11111/5	Vibration	Pass							
Rail	r ei biast	LIL	Granite		5	mm/s	Ground	DNT <0.5mm/s	DNT <0.5mm/s	0.82mm/s	0.70mm/s	0.64mm/s	DNT <0.5mm/s	0.78mm/s	DNT <0.5mm/s
				-	5	11111/5	Vibration	Pass							

Blast Monitoring Results at Granite Pit - May 2021

Location	Frequency	Source	Required For:	Lower Limit	Upper Limit	Unit	Description	01/07/2021	02/07/2021	06/07/2021	08/07/2021	13/07/2021	15/07/2021	21/07/2021	22/07/2021
			-		445	dD (Lin Dools)	Over	DNT <100db							
B4	Per Blast	EPL	Granite	-	115	dB (Lin Peak)	Pressure	Pass							
Resident	Per biast	EPL	Granite		5	mm/s	Ground	DNT <0.5mm/s							
				-	5	11111/5	Vibration	Pass							
					115	dB (Lin Peak)	Over	DNT <100db							
B5	Per Blast	EPL	Granite	-	115	ub (Lili Feak)	Pressure	Pass							
Resident	r ei biast	LFL	Granite		5	mm/s	Ground	DNT <0.5mm/s							
				-	5	11111/5	Vibration	Pass							
					5	mm/s	Ground	DNT <0.5mm/s	0.81mm/s	DNT <0.5mm/s	0.99mm/s	1.28mm/s	DNT <0.5mm/s	DNT <0.5mm/s	DNT <0.5mm/s
В6	Per Blast	EPL	Granite	-	3	11111/5	Vibration	Pass							
Rail	r ei biast	LFL	Granite		5	mm/s	Ground	DNT <0.5mm/s	0.81mm/s	DNT <0.5mm/s	0.99mm/s	1.28mm/s	DNT <0.5mm/s	DNT <0.5mm/s	DNT <0.5mm/s
				-	3	11111/5	Vibration	Pass							

### **Blast Monitoring Results**

Note(s) DNT <(X)dB = Did Not Trigger with monitoring equipment set at a trigger point of "X"dB

DNT <(X)mm/s = Did Not Trigger with monitoring equipment set at a trigger point of "X"mm/s

Blast Monitoring Results at Granite Pit - June 2021

	ing results at															
Location	Frequency	Source	Required For:	Lower Limit	Upper Limit	Unit	Description	27/07/2021	29/07/2021	03/08/2021	06/08/2021	10/08/2021	12/08/2021	17/08/2021	19/08/2021	24/08/2021
					115	dB (Lin Peak)	Over	DNT <100db								
B4	Per Blast	EPL	Granite	-	115	db (Lili Peak)	Pressure	Pass								
Resident	Pel blast	EFL	Granite		-	mm/s	Ground	DNT <0.5mm/s								
				-	5	mm/s	Vibration	Pass								
					115	dB (Lin Peak)	Over	DNT <100db	80.9db							
B5	Per Blast	EPL	Granite	-	115	ub (Lili Feak)	Pressure	Pass								
Resident	Pel blast	EFL	Granite		5	mm/s	Ground	DNT <0.5mm/s	0.77mm/s							
				-	5	min/s	Vibration	Pass								
					5	mm/s	Ground	DNT <0.5mm/s	DNT <0.5mm/s	0.57mm/s	DNT <0.5mm/s	1.07mm/s				
В6	Per Blast	EPL	Granite	-	5	11111/5	Vibration	Pass								
Rail	rei biast	EPL	Graffile		5	mm/s	Ground	DNT <0.5mm/s	DNT <0.5mm/s	0.5mm/s	DNT <0.5mm/s	1.07mm/s				
				-	3	mm/s	Vibration	Pass								

Blast Monitoring Results at Granite Pit - July 2021

	J																
Location	Frequency	Source	Required For:	Lower Limit	<b>Upper Limit</b>	Unit	Description	26/08/2021	02/09/2021	03/09/2021	09/09/2021	14/09/2021	17/09/2021				
					115	dD (Lin Dools)	Over	DNT <100db									
B4	Per Blast	EDI	Cronito	-	115	dB (Lin Peak)	Pressure	Pass									
Resident	Pei biasi	EPL	Granite		-		Ground	DNT <0.5mm/s									

					-	Э	mm/s	Vibration	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass
						445	dD (Lin Dools)	Over	DNT <100db	DNT <100db	84.9dbl	DNT <100db	91.8db	DNT <100db	DNT <100db	DNT <100db	86.9db	DNT <100db
	B5	Per Blast	EPL	Cranita	-	115	dB (Lin Peak)	Pressure	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass
	Resident	Pei biasi	EPL	Granite		-	mm/a	Ground	DNT <0.5mm/s	DNT <0.5mm/s	0.52mm/s	DNT <0.5mm/s	0.66mm/s	DNT <0.5mm/s	DNT <0.5mm/s	DNT <0.5mm/s	0.71mm/s	DNT <0.5mm/s
					-	5	mm/s	Vibration	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass
						E	mm/a	Ground	DNT <0.5mm/s	DNT <0.5mm/s	DNT <0.5mm/s	DNT <0.5mm/s	0.84mm/s	0.62mm/s	0.84mm/s	DNT <0.5mm/s	0.98mm/s	0.85mm/s
	В6	36 Per Blast EPL	Granite	-	5	mm/s	Vibration	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	
	Rail	rei biasi	EFL	Granite		5	mm/s	Ground	DNT <0.5mm/s	DNT <0.5mm/s	DNT <0.5mm/s	DNT <0.5mm/s	0.84mm/s	0.62mm/s	0.84mm/s	DNT <0.5mm/s	0.98mm/s	0.85mm/s
					-	3	11111/5	Vibration	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass

Blast Monitoring Results at Granite Pit - August 2021

Location	Frequency	Source	Required For:	Lower Limit	Upper Limit	Unit	Description	21/09/2021	28/09/2021	30/09/2021	07/10/2021	12/10/2021	14/10/2021	19/10/2021	21/10/2021	26/10/2021	28/10/2021	29/10/2021	02/11/2021
					115	dB (Lin Peak)	Over	DNT <100db	DNT <100db	DNT <100db	DNT <100db	DNT <100db	DNT <100db	DNT <100db	DNT <100db				
B4	Per Blast	EPL	Granite	-	115	ub (Lili Feak)	Pressure	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass
Resident	rei biasi	EFL	Granite		5	mm/s	Ground	DNT <0.5mm/s	DNT<0.5mm/s	DNT <0.5mm/s									
				1	3	11111/5	Vibration	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass
					115	dB (Lin Peak)	Over	DNT <100db	DNT <100db	86.9db	DNT <100db	DNT <100db	100db	DNT <100db	DNT <100db	DNT <100db	94.9db	DNT <100db	DNT <100db
B5	Per Blast	EPL	Granite	•	113	db (Liii Feak)	Pressure	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass
Resident	r ei biast	LFL	Granite		5	mm/s	Ground	DNT <0.5mm/s	DNT <0.5mm/s	0.71mm/s	DNT <0.5mm/s	DNT <0.5mm/s	0.62mm/s	DNT <0.5mm/s	DNT <0.5mm/s	DNT <0.5mm/s	0.91mm/s	DNT <0.5mm/s	DNT <0.5mm/s
				,	3	11111/1/5	Vibration	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass
				_	5	mm/s	Ground	0.84mm/s	DNT <0.5mm/s	0.98mm/s	0.85mm/s	0.86mm/s	0.76mm/s	DNT <0.5mm/s	DNT <0.5mm/s	DNT <0.5mm/s	1.07mm/s	1.46mm/s	0.90 mm/s
В6	Per Blast	EPL	Granite		5	11111/3	Vibration	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass
Rail	i Gi Diast	LI-L	Granite	_	5	mm/s	Ground	0.84mm/s	DNT <0.5mm/s	0.98mm/s	0.85mm/s	0.86mm/s	0.76mm/s	DNT <0.5mm/s	DNT <0.5mm/s	DNT <0.5mm/s	!.46mm/s	1.46mm/s	0.90mm/s
				_		11111/1/5	Vibration	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass

# Blast Monitoring Results

Note(s) DNT <(X)dB = Did Not Trigger with monitoring equipment set at a trigger point of "X"dB

DNT <(X)mm/s = Did Not Trigger with monitoring equipment set at a trigger point of "X"mm/s

Blast Monitoring Results at Granite Pit - September 2021

	Location	Frequency	Source	Required For:	Lower Limit	Upper Limit	Unit	Description	12/10/2021	14/10/2021	19/10/2021							
						115	dB (Lin Peak)	Over	DNT <100db	DNT <100db	DNT <100db	DNT <100db	DNT <100db	DNT <100db	DNT <100db	DNT <100db	DNT <100db	DNT <100db
	B4	Per Blast	EPL	Granite	-	115	ub (Lili Feak)	Pressure	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass
	Resident	rei biasi	EFL	Granite		E	mm/s	Ground	DNT <0.5mm/s	DNT<0.5mm/s	DNT <0.5mm/s							
					-	5	11111/5	Vibration	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass
						115	dB (Lin Peak)	Over	DNT <100db	100db	DNT <100db	DNT <100db	DNT <100db	94.9db	DNT <100db	DNT <100db	DNT <100db	86.9 DBL
	B5	Per Blast	EPL	Granite	-	115	ub (Lili Feak)	Pressure	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass
	Resident	rei biasi	EFL	Granite	_	5	mm/s	Ground	DNT <0.5mm/s	0.62mm/s	DNT <0.5mm/s	DNT <0.5mm/s	DNT <0.5mm/s	0.91mm/s	DNT <0.5mm/s	DNT <0.5mm/s	DNT <0.5mm/s	0.51mm/s
					-	3	11111/5	Vibration	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass
	B6 Rail					E	mm/s	Ground	0.86mm/s	0.76mm/s	DNT <0.5mm/s	DNT <0.5mm/s	DNT <0.5mm/s	1.07mm/s	1.46mm/s	0.90 mm/s	0.82mm/s	1.30mm/s
		Per Blast	EPL	Granite	-	5	11111/5	Vibration	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass
		rei biast	EPL	Gianne		5	mm/s	Ground	0.86mm/s	0.76mm/s	DNT <0.5mm/s	DNT <0.5mm/s	DNT <0.5mm/s	!.46mm/s	1.46mm/s	0.90mm/s	0.82mm/s	1.30mm/s
					-	3	11111/5	Vibration	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass

Blast Monitoring Results at Granite Pit - October 2021

Location	Frequency	Source	Required For:	Lower Limit	Upper Limit	Unit	Description	21/10/2021	26/10/2021	28/10/2021	29/10/2021	02/11/2021	09/11/2021	16/11/2021	18/11/2021	23/11/2021	25/11/2021
					115	dB (Lin Peak)	Over	DNT <100db									
B4	Per Blast	EPL	Granite	=	115	db (Lili Peak)	Pressure	Pass									
Resident	Pei biast	EPL	Granite	_	5	mm/s	Ground	DNT <0.5mm/s									
				-	3	11111/5	Vibration	Pass									
					115	dB (Lin Peak)	Over	DNT <100db	DNT <100db	94.9db	DNT <100db	DNT <100db	DNT <100db	86.9 DBL	DNT <100db	84.4 DB	DNT <100db
B5	Per Blast	EPL	Granite	-	113	db (Liii Feak)	Pressure	Pass									
Resident	Pei biast	EPL	Granite	_	5	mm/s	Ground	DNT <0.5mm/s	DNT <0.5mm/s	0.91mm/s	DNT <0.5mm/s	DNT <0.5mm/s	DNT <0.5mm/s	0.51mm/s	DNT <0.5mm/s	0.52mm/s	DNT <0.5mm/s
				-	3	11111/5	Vibration	Pass									
					5	mm/s	Ground	DNT <0.5mm/s	DNT <0.5mm/s	1.07mm/s	1.46mm/s	0.90 mm/s	0.82mm/s	1.30mm/s	0.92mm/s	0.81mm/s	0.77mm/s
B6	Per Blast	EPL	Granite	-	3	11111/5	Vibration	Pass									
Rail	I GI Diast	LFL	Granite	_	5	mm/s	Ground	DNT <0.5mm/s	DNT <0.5mm/s	!.46mm/s	1.46mm/s	0.90mm/s	0.82mm/s	1.30mm/s	0.92mm/s	0.81mm/s	0.77mm/s
				-	3	11111/5	Vibration	Pass									

Blast M	/lonitor	ing Results at	Granite Pit -	November 202	21				
Locat	tion	Frequency	Source	Required For:	Lower Limit	Upper Limit	Unit	Description	
B4	1				-	115	dB (Lin Peak)	Over Pressure	
Resid		Per Blast	EPL	Granite	-	5	mm/s	Ground Vibration	
B5	5	5 5 4	- FD:	0 "	-	115	dB (Lin Peak)	Over Pressure	
Resid	dent	Per Blast	EPL	Granite	-	5	mm/s	Ground Vibration	
B6	3				-	5	mm/s	Ground Vibration	
Rai		Per Blast	EPL	Granite	-	5	mm/s	Ground Vibration	

# Blast Monitoring Results

Note(s)

DNT <(X)dB = Did Not Trigger with monitoring equipment set at a trigger point of "X"dB

DNT <(X)mm/s = Did Not Trigger with monitoring equipment set at a trigger point of "X"mm/s

Blast Monitoring Results at Granite Pit - December 2021

 nast monitor	mg results at		December 202					
Location	Frequency	Source	Required For:	Lower Limit	Upper Limit	Unit	Description	
B4 Resident	Per Blast	EPL	Granite	-	115	dB (Lin Peak)	Over Pressure	
Resident	Pel Blast	EPL	Granite	-	5	mm/s	Ground Vibration	
B5 Resident	Per Blast	EPL	Granite	-	115	dB (Lin Peak)	Over Pressure	
Resident	Pel blast	EPL	Granite	-	5	mm/s	Ground Vibration	
B6	Per Blast	EPL	Granite	-	5	mm/s	Ground Vibration	
Rail	rei blast	CPL	Gianne	-	5	mm/s	Ground Vibration	

Comments regar	arding blast monitoring outcomes
Comment 1:	
Comment 2:	
Comment 3:	