

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&option=licence&searchrange=licence⦥=POEO%20licence&prp=no&status=Issued
Date Dataset Updated	
Date Dataset Published	Wednesday, 25 October 2023

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 (Mean)	10.1	13.5	10.9	17.8	6.3	3.5	5.4	4.5	19.6	13.8	19.7	10.2
Pass / Fail	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass
			С	omments regardii	ng Hi Volume mo	nitoring outcomes	at HVAS 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	te Matter < 10 μn	n (PM10)		
Month	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Result (Mean)	11.2	28.0	10.3	9.8	14.2	5.3	10.5	10.5	12.7	6.8	13.0	9.6
Pass / Fail	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass
			С	omments regardir	ng Hi Volume mo	nitoring outcomes	at HVAS 1					
Comment 1:												
Comment 2:	*24/2/2023* Earth work and or	onstruction on HVAS	2 - The land owner bu	ilt a sheed which requ	ired topsoil stripping	in the area. He had to	p dressed the lawn n	ear the monitor to build	d new sheed.			
Comment 3:												

0.3

Air Quality Monitoring - Deposition Results

Location	Frequency	Source	Lower Limit	Upper Limit	Unit	Desci	ription	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,							05/01/2023	06/02/2023	Date									
DD 5	Monthly	EPL		4	ma/m2/month	Insoluble	Result	1.2	0.3	0.5	0.6	3.7	1.8	0.1	0.2	0.4	0.4	0.5	0.6
DD 3	Wiontiny	Section P1		7	mg/mz/month	Solids	Pass / Fail	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass
DD 8	Monthly	EPL		4	mg/m2/month	Insoluble	Result	0.2	0.3	0.4	0.5	1.1	0.5	0.2	0.5	0.6	0.4	1.1	1.8
DD 8	Willing	Section P1	_	4	mg/mz/monu	Solids	Pass / Fail	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass
DD11	Monthly	EPL		4	mg/m2/month	Insoluble	Result	0.6	0.3	1	0.5	0.1	0.8	0.1	0.2	0.2	1	0.2	1
DOTT	Willing	Section P1	_	4	mg/mz/monu	Solids	Pass / Fail	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass
DD12	Monthly	EPL		4	mg/m2/month	Insoluble	Result	0.3	0.2	0.5	0.2	0.3	0.3	0.2	0.1	0.2	0.5	0.3	0.5
0012	Willing	Section P1	_	4	mg/mz/monu	Solids	Pass / Fail	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass
DD13	Monthly	EPL		4	mg/m2/month	Insoluble	Result	0.7	1.4	0.8	0.5	0.1	0.2	0.1	0.6	0.6	0.8	0.8	3.1
DD 13	Willing	Section P1	_	4	mg/mz/monu	Solids	Pass / Fail	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass

	Comments regarding deposition monitoring outcomes
Comment 1:	
Comment 2:	
Comment 3:	#REFI

Noise Monitoring Results

Location	Frequency	Source	Lower Limit	Upper Limit	Unit	Description	Q1	Q2	Q3	Q4
	. roquonoy		201101 2111111	оррог 2	0	2000pub	Sample Date	Sample Date	Sample Date	Sample Date
			_	35	dB	LAeq (15 min) Result	<35	<35	<35	
				55	ub ub	Day Pass / Fail	Pass	Pass	Pass	
			_	35	dB	LAeq (15 min) Result	<35	<35	<35	
NAL 1	Quarterly	EPL				Evening Pass / Fail	Pass	Pass	Pass	
14 Carrick Rd, Marulan (L1)		Section L3	_	35	dB	LAeq (15 min) Result	<35	<35	<35	
						Night Pass / Fail	Pass	Pass	Pass	
			_	45	dB	LA1 (1 min) Result	<45	<45	<45	
						Night Pass / Fail	Pass	Pass	Pass	
							Q1	Q2	Q3	Q4
Location	Frequency	Source	Lower Limit	Upper Limit	Unit	Description	Sample Date	Sample Date	Sample Date	Sample Date
						LAeq (15 min) Result	<35	<35	<35	·
			-	35	dB	Day Pass / Fail	Pass	Pass	Pass	
				0.7		LAeq (15 min) Result	<37	<37	<37	
NAL 2 I of Maclura Dr. Marulan	0	EPL	-	37	dB	Evening Pass / Fail	Pass	Pass	Pass	
(L6)	Quarterly	Section L3		36	dB	LAeq (15 min) Result	<36	<36	<36	
()			-	36	ав	Night Pass / Fail	Pass	Pass	Pass	
			_	46	dB	LA1 (1 min) Result	<46	<46	<46	
			_	46	UD	Night Pass / Fail	Pass	Pass	Pass	
Location	Frequency	Source	Lower Limit	Upper Limit	Unit	Description	Q1	Q2	Q3	Q4
						- "	Sample Date	Sample Date	Sample Date	Sample Date
			-	35	dB	LAeq (15 min) Result Day Pass / Fail	<35	<35	<35	
							Pass <35	Pass <35	Pass <35	
NAL 0		EPL	-	35	dB	LAeq (15 min) Result Evening Pass / Fail	Pass	Pass	Pass	
NAL 3 y, 16038 Hume Highway, M	Quarterly	Section L3				LAeq (15 min) Result	<35	<35	<35	
,,			-	35	dB	Night Pass / Fail	Pass	Pass	Pass	
						LA1 (1 min) Result	41	<47	<47	
			-	47	dB	Night Pass / Fail	Pass	Pass	Pass	
		1								
Location	Frequency	Source	Lower Limit	Upper Limit	Unit	Description	Q1	Q2	Q3	Q4
Location	rrequericy	Source	Lower Limit	Opper Limit	Oilit	Description	Sample Date	Sample Date	Sample Date	Sample Date
			_	37	dB	LAeq (15 min) Result	<37	<37	<37	
				J.,	UD.	Day Pass / Fail	Pass	Pass	Pass	
			_	37	dB	LAeq (15 min) Result	<37	<37	<37	
NAL 4	Quarterly	EPL	_	<i>5,</i>	UD.	Evening Pass / Fail	Pass	Pass	Pass	
ettand Suffolk Road, Maru	additions	Section L3	_	36	dB	LAeq (15 min) Result	<36	<36	<36	
						Night Pass / Fail	Pass	Pass	Pass	
			_	47	dB	LA1 (1 min) Result	<47	<47	<47	
						Night Pass / Fail	Pass	Pass	Pass	
						Come	ments regarding noise monitoring outcomes			
Comment 1:	ne LAeq (Evening a	nd Night) freque	ncv assessment	is annual		Com	mems regarding noise monitoring outcomes			
	toy (= voiling a	giit/ irequei	, assessinitill	· · · · · · · · · · · · · · · · · · ·						

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 a	nt Ignimbrite Pit - W	OY 2023													
Location	Frequency	Source	Required For:	Lower Limit	Upper Limit	Unit	Description	31 Jan 2023	18 Apr 2023						1
							Over	DNT <100db	DNT <100db					,	

B1	Per Blast	EPL	Ignimbrite	-	115	db (Lin Peak)	Pressure	Pass	Pass					
Rail	rei biasi	Section L4	ignimbrite		-	mm/s	Ground	DNT <0.5mm/s	DNT <0.5mm/s					
				-	5	11111/5	Vibration	Pass	Pass					
					115	dB (Lin Peak)	Over	DNT <100db	DNT <100db					
B2 Pipeline	Per Blast	EPL	Ignimbrite	-	115	ub (Lili Feak)	Pressure	Pass	Pass					
Pipeline	rei biasi	Section L4	Igninibrite		5	mm/s	Ground	DNT <0.5mm/s	DNT <0.5mm/s					
				_	3	11111/15	Vibration	Pass	Pass					
					115	dB (Lin Peak)	Over	DNT <100db	DNT <100db					
B3	Per Blast	EPL	Ignimbrite	_	113	ub (Liii Feak)	Pressure	Pass	Pass					
Resident	r er blast	Section L4	ignimbrite			mm/s	Ground	DNT <0.5mm/s	DNT <0.5mm/s					
				-	3	11111/15	Vibration	Pass	Pass					

Blast Monitoring Results at Granite Pit - January 2023

Diadt mointoing itodaite a	t Oranneo i ne oana	,																
Location	Frequency	Source	Required For:	Lower Limit	Upper Limit	Unit	Description	13/01/2023	17/01/2023	19/01/2023	02/02/2023	07/02/2023	09/02/2023	14/02/2023	16/02/2023	21/02/2023	23/2/2023	28/02/2023
					115	dB (Lin Peak)	Over	DNT <100db										
E7246	Per Blast	EPL	Granite	-	115	ub (Liii reak)	Pressure	Pass										
Cameron / Resident	rei bidsi	CPL	Gianne		-	mm/s	Ground	DNT <0.5mm/s										
				-	5	11111/5	Vibration	Pass										
					115	dB (Lin Peak)	Over	DNT <100db										
E7245	Per Blast	EPL	Granite	-	115	ub (Liii reak)	Pressure	Pass										
Lockeyersleigh/Resident	rei bidsi	CPL	Gianne		-	mm/s	Ground	DNT <0.5mm/s										
				-	5	11111/5	Vibration	Pass										
					5	mm/s	Ground	0.89mm/s	DNT <0.5mm/s	DNT <0.5mm/s	DNT <0.5mm/s	DNT <0.5mm/s	0.56mm/s	DNT <0.5mm/s				
E7244	Per Blast	EPL	Granite	_		11111/15	Vibration	Pass										
Rail/Pipeline	rei Blast	EPL	Gianite		-	mm/s	Ground	0.89mm/s	DNT <0.5mm/s	DNT <0.5mm/s	DNT <0.5mm/s	DNT <0.5mm/s	0.56mm/s	DNT <0.5mm/s				
				-) °	IIIIT/S	Vibration	Pass										

Blast Monitoring Results at Granite Pit - February 2023

Location	Frequency	Source	Required For:	Lower Limit	Upper Limit	Unit	Description										
					115	dB (Lin Peak)	Over	DNT <100db									
B4	Per Blast	EPL	Granite	-	115	ub (Lili Feak)	Pressure	Pass									
Resident	rei biasi	CFL.	Gianne		_	mm/s	Ground	DNT <0.5mm/s									
				-	5	11111/5	Vibration	Pass									
					115	dB (Lin Peak)	Over	DNT <100db	DNT <100db	DNT <100db	87.0db	DNT <100db					
B5	Per Blast	EPL	Granite	_	113	db (Liii Feak)	Pressure	Pass									
Resident	r ei biast		Gianne			mm/s	Ground	DNT <0.5mm/s	DNT <0.5mm/s	DNT <0.5mm/s	0.57mm/s	DNT <0.5mm/s					
				_	,	11111/5	Vibration	Pass									
						mm/s	Ground	DNT <0.5mm/s	0.85mm/s	DNT <0.5mm/s	1.02mm/s	DNT <0.5mm/s	DNT <0.5mm/s	DNT <0.5mm/s	0.67mm/s	DNT <0.5mm/s	0.72mm/s
B6	Per Blast	EPL	Granite	_	,	11111/5	Vibration	Pass									
Rail	r el Diasi		Gianne		5	mm/s	Ground	DNT <0.5mm/s	0.85mm/s	DNT <0.5mm/s	1.02mm/s	DNT <0.5mm/s	DNT <0.5mm/s	DNT <0.5mm/s	0.67mm/s	DNT <0.5mm/s	0.72mm/s
				-		""""	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

last Monitoring Results	at Granite Pit - Marc	ch 2023															
Location	Frequency	Source	Required For:	Lower Limit	Upper Limit	Unit	Description										
				_	115	dB (Lin Peak)	Over	DNT <100db	DNT <100d								
B4	Per Blast	EPL	Granite	-	115	ub (Liii Feak)	Pressure	Pass	Pass								
Resident	r ei blast		Gianne	_		mm/s	Ground	DNT <0.5mm/s	DNT <0.5mn								
				-	3	11111/5	Vibration	Pass	Pass								
					115	dB (Lin Peak)	Over	DNT <100db	DNT <100dl								
B5	Per Blast	EPL	Granite	-	115	UB (LIII Feak)	Pressure	Pass	Pass								
Resident	rei bidst	LPL.	Gianne		_	mm/s	Ground	DNT <0.5mm/s	DNT <0.5mm								
				-	3	11111/5	Vibration	Pass	Pass								
					_	mm/s	Ground	DNT <0.5mm/s	DNT <0.5mm								
B6	Per Blast	EPL	Granite	-	3	11111/5	Vibration	Pass	Pass								
Rail	rei Blast	EPL	Gianite		-	mm/s	Ground	DNT <0.5mm/s	DNT <0.5mm								
				-	ľ	11111/5	Vibration	Pass	Pass								

Blast Monitoring Results a	t Granite Pit - April	2023													
Location	Frequency	Source	Required For:	Lower Limit	Upper Limit	Unit	Description								
					115	dB (Lin Peak)	Over	DNT <100db	DNT <100db	DNT <100db	DNT <100db	105.6 db	DNT <100db	DNT <100db	DNT <100db
B4	Per Blast	EPL	Granite	,	115	ub (Lili Feak)	Pressure	Pass							
Resident	r er blast		Granite		5	mm/s	Ground	DNT <0.5mm/s	DNT <0.5mm/s	DNT <0.5mm/s	DNT <0.5mm/s	0.96 mm/s	DNT <0.5mm/s	DNT <0.5mm/s	DNT <0.5mm/s
				,	,	11111/5	Vibration	Pass							
					115	dB (Lin Peak)	Over	DNT <100db							
B5	Per Blast	EPL	Granite	,	113	ub (Liii Feak)	Pressure	Pass							
Resident	r er blast		Granite	_	5	mm/s		DNT <0.5mm/s							
				,	,	11111/5	Vibration	Pass							
					5	mm/s	Orouna	DNT <0.5mm/s							
B6	Per Blast	EPL	Granite	,	,	11111/5	Vibration	Pass							
Rail	r er blast		Granite		5	mm/s	Ground	DNT <0.5mm/s							
				,	,	11111/5	Vibration	Pass							

Blast Monitoring Results at Granite Pit - May 2023

Diast Monitoring Results a	t Grante i it - may														
Location	Frequency	Source	Required For:	Lower Limit	Upper Limit	Unit	Description								
					115	dB (Lin Peak)	Over	DNT <100db							
B4	Per Blast	EPL	Granite	-	115	ub (Lili Feak)	Pressure	Pass							
Resident	rei biasi	L CFL	Granite		5	mm/s	Ground	DNT <0.5mm/s							
				-	3	11111/5	Vibration	Pass							
					115	dB (Lin Peak)	Over	DNT <100db	83.2 dbl	DNT <100db					
B5	Per Blast	EPL	Granite	-	113	db (Liii Feak)	Pressure	Pass							
Resident	rei bidsi	L CFL	Granite		_	mm/s	Ground	DNT <0.5mm/s	0.53 mm/s	DNT <0.5mm/s					
				-	3	11111/5	Vibration	Pass							
					_	mm/s	Ground	DNT <0.5mm/s	DNT <0.5mm/s	DNT <0.5mm/s	0.65 mm/s	DNT <0.5mm/s	0.63mm/s	0.49 mm/s	DNT <0.5mm/s
B6	Dor Bloot	EPL	Granite	-	3	11111/5	Vibration	Pass							
Rail	Per Blast	L CFL	Granite		_	mm/s	Ground	DNT <0.5mm/s	DNT <0.5mm/s	DNT <0.5mm/s	0.65 mm/s	DNT <0.5mm/s	0.63mm/s	0.49 mm/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

last Monitoring Results	at Granite Pit - June	2023														
Location	Frequency	Source	Required For:	Lower Limit	Upper Limit	Unit	Description									
					115	dB (Lin Peak)	Over	DNT <100db								
B4	Per Blast	EPL	Granite	-	115	ub (Liii Feak)	Pressure	Pass								
Resident	r er blast		Gianne		5	mm/s	Ground	DNT <0.5mm/s								
				_	3	11111/15	Vibration	Pass								
					115	dB (Lin Peak)	Over	DNT <100db								
B5	Per Blast	EPL	Granite	_	113	ub (Liii Feak)	Pressure	Pass								
Resident	r er blast		Gianne		5	mm/s	Ground	DNT <0.5mm/s								
				_	3	11111/15	Vibration	Pass								
				_	5	mm/s	Ground	DNT <0.5mm/s	DNT <0.5mm/s	DNT <0.5mm/s	0.71mm/s	DNT <0.5mm/s	0.64 mm/s	DNT <0.5mm/s	DNT <0.5mm/s	DNT <0.5mm/s
B6	Per Blast	EPL	Granite	_	3	11111/15	Vibration	Pass								
Rail	i Ci Diast		Gianne		_	mm/e	Ground	DNT <0.5mm/s	DNT <0.5mm/s	DNT <0.5mm/s	0.71mm/s	DNT <0.5mm/s	0.64 mm/s	DNT <0.5mm/s	DNT <0.5mm/s	DNT <0.5mm/s

Blast Monitoring Results at Granite Pit - July 2023

Location	Frequency	Source	Required For:	Lower Limit	Upper Limit	Unit	Description										
					115	dB (Lin Peak)	Over	DNT <100db									
B4	Per Blast	EPL	Granite	-	115	UB (LIII Feak)	Pressure	Pass									
Resident	rei biasi	L CFL	Gianne		_	mm/s	Ground	DNT <0.5mm/s									
				-	3	11111/5	Vibration	Pass									
					115	dB (Lin Peak)	Over	83.2 dbl	DNT <100db	104.0 db	DNT <100db	DNT <100db					
B5	Per Blast	EPL	Granite	-	115	ub (Lili Feak)	Pressure	Pass									
Resident	rei biasi	L CFL	Gianne		_	mm/s	Ground	0.55 mm/s	DNT <0.5mm/s	0.53mm/s	DNT <0.5mm/s	DNT <0.5mm/s					
				-	3	11111/5	Vibration	Pass									
					5	mm/s	Ground	1.25mm/s	DNT <0.5mm/s	0.71 mm/s	DNT <0.5mm/s	0.66 mm/s	DNT <0.5mm/s	DNT <0.5mm/s	DNT <0.5mm/s	DNT <0.5mm/s	1.20 mm/s

B6	Per Blast	EPL	0	-	۰ ا	mm/s	Vibration	Pass											
Rail	Per Blast	EPL	Granite	_	5	mm/s	Ground	1.25 mm/s	DNT <0.5mm/s	0.71 mm/s	DNT <0.5mm/s	0.56 mm/s	DNT <0.5mm/s	DNT <0.5mm/s	DNT <0.5mm/s	DNT <0.5mm/s	1.20 mm/s		
				-	5	11111/5	Vibration	Pass											
Blast Monitoring Results a	nt Granite Pit - Augu	ıst 2023																-	
Location	Frequency	Source	Required For:	Lower Limit	Upper Limit	Unit	Description												
					115	dB (Lin Peak)	Over	DNT <100db											
B4	Per Blast	EPL	Granite	_	113	ub (Elli Feak)	Pressure	Pass											
Resident	r ei biasi	Lit	Gianne	_		mm/s	Ground	DNT <0.5mm/s											
				_	3	11111//5	Vibration	Pass											
				_	115	dB (Lin Peak)	Over	DNT <100db	104.0 db	DNT <100db	DNT <100db	DNT <100db	DNT <100db	89.2 dbl	91.1 db	89.2 db	100.1db	91.1db	DNT <100db
B5	Per Blast	EPL	Granite	_	113	ub (Elli Feak)	Pressure	Pass											
Resident	r ei biasi	Lit	Gianne	_		mm/s	Ground	DNT <0.5mm/s	0.53mm/s	DNT <0.5mm/s	DNT <0.5mm/s	DNT <0.5mm/s	DNT <0.5mm/s	0.52 mm/s	0.71 mm/s	0.87 mm/s	0.70 mm/s	0.57mm/s	DNT <0.5mm/s
				_	3	11111//5	Vibration	Pass											
				_		mm/s	Ground	DNT <0.5mm/s	DNT <0.5mm/s	DNT <0.5mm/s	1.20 mm/s	DNT <0.5mm/s	0.75mm/s	1.17mm/s	0.53mm/s	1.09mm/s	0.12 mm/s	0.51mm/s	0.82 mm/s
B6	Per Blast	EPL	Granite	_	3	11111//5	Vibration	Pass											
Rail	r Ci DidSt	""	Giannie	_	5	mm/s	Ground	DNT <0.5mm/s	DNT <0.5mm/s	DNT <0.5mm/s	1.20 mm/s	DNT <0.5mm/s	0.75mm/s	1.17mm/s	0.53mm/s	1.09mm/s	0.12mm/s	0.51mm/s	0.82mm/s
				_	"	11111/5	Vibration	Pass											

Blast Monitoring Results

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 a	nt Granite Pit - Sept	ember 2023														
Location	Frequency	Source	Required For:	Lower Limit	Upper Limit	Unit	Description									
					115	dB (Lin Peak)	Over	DNT <100db								
B4	Per Blast	FPI	Granite	-	115	UB (LIII Feak)	Pressure	Pass								
Resident	rei biast	L CFL	Granite	_	-	mm/s	Ground	DNT <0.5mm/s								
				-	5	11111/5	Vibration	Pass								
				_	115	dB (Lin Peak)	Over	DNT <100db	DNT <100db	89.2 dbl	91.1 db	89.2 db	100.1db	91.1db	DNT <100db	
B5	Per Blast	EPL	Granite	_	113	db (Liii Feak)	Pressure	Pass								
Resident	r ei biast		Gianne	_	5	mm/s	Ground	DNT <0.5mm/s	DNT <0.5mm/s	0.52 mm/s	0.71 mm/s	0.87 mm/s	0.70 mm/s	0.57mm/s	DNT <0.5mm/s	
				_	3	11111/5	Vibration	Pass								
					5	mm/s	Ground	DNT <0.5mm/s	0.75mm/s	1.17mm/s	0.53mm/s	1.09mm/s	0.12 mm/s	0.51mm/s	0.82 mm/s	
B6	Per Blast	EPL	Granite	_	3	11111/5	Vibration	Pass								
Rail	r ei biast		Gianne	_	5	mm/s	Ground	DNT <0.5mm/s	0.75mm/s	1.17mm/s	0.53mm/s	1.09mm/s	0.12mm/s	0.51mm/s	0.82mm/s	
				-	3	11111/5	Vibration	Pass								

Blast Monitoring Results at Granite Pit - October 2023

Location	Frequency	Source	Required For:	Lower Limit	Upper Limit	Unit	Description								
					115	dB (Lin Peak)	Over	DNT <100db							
B4	Per Blast	EPL	Granite	_	113	ub (Liii Feak)	Pressure	Pass	Pass	Pass	Pass	Pass			
Resident	r ei biast		Granite	_	5	mm/s	Ground	DNT <0.5mm/s							
				-	3	iiiii/s	Vibration	Pass	Pass	Pass	Pass	Pass			i
				_	115	dB (Lin Peak)	Over	91.1 db	89.2 db	100.1db	91.1db	DNT <100db			
B5	Per Blast	EPL	Granite		110	db (Eiii i cak)	Pressure	Pass	Pass	Pass	Pass	Pass			i
Resident	i ci biast		Granice	_	5	mm/s	Ground	0.71 mm/s	0.87 mm/s	0.70 mm/s	0.57mm/s	DNT <0.5mm/s			1
						11111113	Vibration	Pass	Pass	Pass	Pass	Pass			i
				_	5	mm/s	Ground	0.53mm/s	1.09mm/s	0.12 mm/s	0.51mm/s	0.82 mm/s			1
B6	Per Blast	EPL	Granite			11111113	Vibration	Pass	Pass	Pass	Pass	Pass			
Rail	i ci biast		Sianile	_	5	mm/s	Ground	0.53mm/s	1.09mm/s	0.12mm/s	0.51mm/s	0.82mm/s			<u> </u>
				_		11111/5	Vibration	Pass	Pass	Pass	Pass	Pass			i

Blast Monitoring Results at Granite Pit - November 2023

Location	Frequency	Source	Required For:	Lower Limit	Upper Limit	Unit	Description						
					115	dB (Lin Peak)	Over						
B4	Per Blast	EPL	Granite	-	115	UB (LIII Feak)	Pressure						
Resident	rei biasi	CFL	Granite		_	mm/a	Ground						
				-	3	mm/s	Vibration						
					115	dB (Lin Peak)	Over Pressure						
B5	Per Blast	FPI	Granite	-	115	ub (Lili Feak)	Pressure						

Resident	Per Blast	EPL	Granite		_	mm/s	Ground					
				-	3	11111/5	Vibration					
					_	mm/s	Ground					
B6	Dor Bloot	EDI	Cronito	-	3	11111/5	Vibration					
Rail	Per Blast	EPL	Granite		_	mm/s	Ground					
				-	9	11111/5	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 a	at Granite Pit - Dec	ember 2023											
Location	Frequency	Source	Required For:	Lower Limit	Upper Limit	Unit	Description						
B4				-	115	dB (Lin Peak)	Over Pressure						
Resident	Per Blast	EPL	Granite	-	5	mm/s	Ground Vibration						
B5				-	115	dB (Lin Peak)	Over Pressure						
Resident	Per Blast	EPL	Granite	-	5	mm/s	Ground Vibration						
B6	Dec Blook	EDI	0	-	5	mm/s	Ground Vibration						
B6 Rail	Per Blast	EPL	Granite	-	5	mm/s	Ground Vibration						

1	Comments regarding blast monito	oring outcomes
	Comment 1:	
	Comment 2:	
	Comment 3:	