

Pollution Monitoring Data - Holcim Dubbo Quarry (EPL Number 2212)



Facility Address	Dubbo Quarry, Sheraton Road, Dubbo, NSW, 2830
Licence Details	<a href="#">Link to EPL on Public Register</a>
Date Dataset Updated	Wednesday, January 15, 2025
Date Dataset Published	Wednesday, January 15, 2025
Licence Reporting Period	May to April (Annually)

**Blast Monitoring Results - 2024**

Location	Frequency	Source	Upper Limit	Unit	Description	171	172	173	174	175	Testing
						21 Feb 2024	26 Apr 2024	13 May 2024	01 Jul 2024	01 Aug 2024	11 Sept 2024
West of Front Gate	Per Blast	EPL Section L3	115	dB (Lin Peak)	Over Pressure	104.3	109.8	105.4	109.9	111.4	98.18
						Within Criteria	Within Criteria	Within Criteria	Within Criteria	Within Criteria	Within Criteria
			5	mm/s	Ground Vibration	1.472	4.96	1.27	2.62	2	1.02
						Within Criteria	Within Criteria	Within Criteria	Within Criteria	Within Criteria	Within Criteria

Location	Frequency	Source	Upper Limit	Unit	Description	176					
						10 Oct 2024					
West of Front Gate	Per Blast	EPL Section L3	115	dB (Lin Peak)	Over Pressure	104.2					
						Within Criteria					
			5	mm/s	Ground Vibration	2.93					
						Within Criteria					

Comments regarding blast monitoring outcomes

- Comment 1: DNT = "Did Not Trigger" with overpressure monitoring equipment set at a trigger point of 90 dBa or ground vibration monitoring equipment set at a trigger point of 0.1 mm/s
- Comment 2: Blast monitor recorded exceedence of ground vibration, Contractor analyzing data has found some reasoning behind result outside of vibration, such as monitor location and ground conditions at monitor location.

**Annual Blast Monitoring Results - 2024**

**Annual Overpressure Monitoring Requirements - Maximum Overpressure**

Overpressure High Range Requirement:	Source	Criteria	Outcome
The airblast overpressure level from blasting operations in or on the premises must not exceed 120 dB (Lin Peak) at any time.	EPL Clause L3.1	Blast Count (YTD)	6
		Blasts with overpressure >120dB during the reporting period	0
		Annual Overpressure (Pass / Fail)	Within Criteria

**Annual Overpressure Monitoring Requirements - Overpressure High Range**

Overpressure High Range Requirement:	Source	Criteria	Outcome
The airblast overpressure level from blasting operations in or on the premises must not exceed 115 dB (Lin Peak) for more than 5% of the total number of blasts during each reporting period.	EPL Clause L3.1	Blast Count (YTD)	6
		Blasts with overpressure >115dB during the reporting period	0
		% of blasts with overpressure >115dB during the reporting period	0%
		Annual Overpressure (Pass / Fail)	Within Criteria

**Annual Ground Vibration Monitoring Requirements - Maximum Ground Vibration**

Overpressure High Range Requirement:	Source	Criteria	Outcome
The ground vibration peak particle velocity from blasting operations carried out in or on the premises must not exceed 10 mm/s at any time.	EPL Clause L3.2	Blast Count (YTD)	6
		Blasts with ground vibration >10 mm/s during the reporting period	0
		Annual Ground Vibration (Pass / Fail)	Within Criteria

**Annual Ground Vibration Monitoring Requirements - Ground Vibration High Range**

Overpressure High Range Requirement:	Source	Criteria	Outcome
The ground vibration peak particle velocity from blasting operations carried out in or on the premises must not exceed 5mm/s for more than 5% of the total number of blasts carried out on the premises during each reporting period.	EPL Clause L3.2	Blast Count (YTD)	6
		Blasts with ground vibration >5mm/s during the reporting period	0
		% of blasts with ground vibration >5mm/s during the reporting period	0%
		Annual Ground Vibration (Pass / Fail)	Within Criteria

## Blast Monitoring Results - 2023

Location	Frequency	Source	Upper Limit	Unit	Description	161	162	163	164	165	166
						31 Jan 2023	31 Mar 2023	20 Apr 2023	20 Apr 2023	29 May 2023	19 Jul 2023
West of Front Gate	Per Blast	EPL Section L3	115	dB (Lin Peak)	Over Pressure	97.4	111.4	103.3	105.6	109.1	102.3
						Within Criteria	Within Criteria	Within Criteria	Within Criteria	Within Criteria	Within Criteria
			5	mm/s	Ground Vibration	0.83	1.64	1.77	1.35	0.94	1.23
						Within Criteria	Within Criteria	Within Criteria	Within Criteria	Within Criteria	Within Criteria

Location	Frequency	Source	Upper Limit	Unit	Description	167	168	169	170
						01 Sep 2023	Did Not Perform	07 Nov 2023	08 Dec 2023
West of Front Gate	Per Blast	EPL Section L3	115	dB (Lin Peak)	Over Pressure	104.5	0	107.5	105.4
						Within Criteria	Within Criteria	Within Criteria	Within Criteria
			5	mm/s	Ground Vibration	1.17	0	2.22	2.058
						Within Criteria	Within Criteria	Within Criteria	Within Criteria

### Comments regarding blast monitoring outcomes

Comment 1:	DNT = "Did Not Trigger" with overpressure monitoring equipment set at a trigger point of 90 dBA or ground vibration monitoring equipment set at a trigger point of 0.1 mm/s
Comment 2:	Did Not Perform = Monitoring equipment was set up for the blast but failed and did not record over pressure or ground vibration values.

## Annual Blast Monitoring Results - 2023

### Annual Overpressure Monitoring Requirements - Maximum Overpressure

Overpressure High Range Requirement:	Source	Criteria	Outcome
The airblast overpressure level from blasting operations in or on the premises must not exceed 120 dB (Lin Peak) at any time.	EPL Clause L3.1	Blast Count (YTD)	10
		Blasts with overpressure >120dB during the reporting period	0
		Annual Overpressure (Pass / Fail)	Within Criteria

### Annual Overpressure Monitoring Requirements - Overpressure High Range

Overpressure High Range Requirement:	Source	Criteria	Outcome
The airblast overpressure level from blasting operations in or on the premises must not exceed 115 dB (Lin Peak) for more than 5% of the total number of blasts during each reporting period.	EPL Clause L3.1	Blast Count (YTD)	10
		Blasts with overpressure >115dB during the reporting period	0
		% of blasts with overpressure >115dB during the reporting period	0%
		Annual Overpressure (Pass / Fail)	Within Criteria

### Annual Ground Vibration Monitoring Requirements - Maximum Ground Vibration

Overpressure High Range Requirement:	Source	Criteria	Outcome
The ground vibration peak particle velocity from blasting operations carried out in or on the premises must not exceed 10 mm/s at any time.	EPL Clause L3.2	Blast Count (YTD)	10
		Blasts with ground vibration >10 mm/s during the reporting period	0
		Annual Ground Vibration (Pass / Fail)	Within Criteria

### Annual Ground Vibration Monitoring Requirements - Ground Vibration High Range

Overpressure High Range Requirement:	Source	Criteria	Outcome
The ground vibration peak particle velocity from blasting operations carried out in or on the premises must not exceed 5mm/s for more than 5% of the total number of blasts carried out on the premises during each reporting period.	EPL Clause L3.2	Blast Count (YTD)	10
		Blasts with ground vibration >5mm/s during the reporting period	0
		% of blasts with ground vibration >5mm/s during the reporting period	0%
		Annual Ground Vibration (Pass / Fail)	Within Criteria

## Blast Monitoring Results - 2022

### Blast Monitoring - 2022

Location	Frequency	Source	Upper Limit	Unit	Description	153	154	155			
						02 Oct 2022	04 May 2022	05 Mar 2022			
West of Front Gate	Per Blast	EPL Section L3	115	dB (Lin Peak)	Over Pressure	100.2	111.6	104.8			
						Within Criteria	Within Criteria	Within Criteria			
			5	mm/s	Ground Vibration	1.92	1.45	3.26			
						Within Criteria	Within Criteria	Within Criteria			

Location	Frequency	Source	Upper Limit	Unit	Description						
West of Front Gate	Per Blast	EPL Section L3	115	dB (Lin Peak)	Over Pressure						
			5	mm/s	Ground Vibration						

## Annual Blast Monitoring Results

### Annual Overpressure Monitoring Requirements - Maximum Overpressure

Overpressure High Range Requirement:	Source	Criteria	Outcome
The airblast overpressure level from blasting operations in or on the premises must not exceed 120 dB (Lin Peak) at any time.	EPL Clause L3.1	Blast Count (YTD)	3
		Blasts with overpressure >120dB during the reporting period	0
		Annual Overpressure (Pass / Fail)	Within Criteria

### Annual Overpressure Monitoring Requirements - Overpressure High Range

Overpressure High Range Requirement:	Source	Criteria	Outcome
The airblast overpressure level from blasting operations in or on the premises must not exceed 115 dB (Lin Peak) for more than 5% of the total number of blasts during each reporting period.	EPL Clause L3.1	Blast Count (YTD)	3
		Blasts with overpressure >115dB during the reporting period	0
		% of blasts with overpressure >115dB during the reporting period	0%
		Annual Overpressure (Pass / Fail)	Within Criteria

### Annual Ground Vibration Monitoring Requirements - Maximum Ground Vibration

Overpressure High Range Requirement:	Source	Criteria	Outcome
The ground vibration peak particle velocity from blasting operations carried out in or on the premises must not exceed 10 mm/s at any time.	EPL Clause L3.2	Blast Count (YTD)	3
		Blasts with ground vibration >10 mm/s during the reporting period	0
		Annual Ground Vibration (Pass / Fail)	Within Criteria

### Annual Ground Vibration Monitoring Requirements - Ground Vibration High Range

Overpressure High Range Requirement:	Source	Criteria	Outcome
The ground vibration peak particle velocity from blasting operations carried out in or on the premises must not exceed 5mm/s for more than 5% of the total number of blasts carried out on the premises during each reporting period.	EPL Clause L3.2	Blast Count (YTD)	3
		Blasts with ground vibration >5mm/s during the reporting period	0
		% of blasts with ground vibration >5mm/s during the reporting period	0%
		Annual Ground Vibration (Pass / Fail)	Within Criteria