

Bass Point Quarry - Blast Monitoring Data - 2023



Date	Time	Blast Monitor location	Airblast overpressure (dB(Lin Peak))	Airblast overpressure lower limit (dB(Lin Peak))	Airblast overpressure upper limit (dB(Lin Peak))	Airblast overpressure compliant (Yes / No)	Ground vibration (mm/sec)	Ground vibration lower limit (mm/sec)	Ground vibration upper limit (mm/sec)	Ground vibration compliant (Yes / No)	Comments
19/01/2023	12:58	Monitoring Point A (Rangoon Avenue, Shell Cove)	<105	115	120	Yes	<0.500	5	10	Yes	Monitoring result lower than monitor trigger (nil trigger)
		Monitoring Point B (Killalea Regional Park, Shell Cove)	<105	115	120	Yes	<0.500	5	10	Yes	Monitoring result lower than monitor trigger (nil trigger)
25/01/2023	12:20	Monitoring Point A (Rangoon Avenue, Shell Cove)	104.0	115	120	Yes	0.920	5	10	Yes	
		Monitoring Point B (Killalea Regional Park, Shell Cove)	106.6	115	120	Yes	3.990	5	10	Yes	
31/01/2023	10:40	Monitoring Point A (Rangoon Avenue, Shell Cove)	106.0	115	120	Yes	0.970	5	10	Yes	
		Monitoring Point B (Killalea Regional Park, Shell Cove)	<105	115	120	Yes	<0.500	5	10	Yes	Monitoring result lower than monitor trigger (nil trigger)
1/02/2023	10:31	Monitoring Point A (Rangoon Avenue, Shell Cove)	102.8	115	120	Yes	0.289	5	10	Yes	
		Monitoring Point B (Killalea Regional Park, Shell Cove)	101.0	115	120	Yes	0.128	5	10	Yes	
8/02/2023	12:40	Monitoring Point A (Rangoon Avenue, Shell Cove)	111.5	115	120	Yes	3.745	5	10	Yes	Rainy, low cloud
		Monitoring Point B (Killalea Regional Park, Shell Cove)	110.6	115	120	Yes	0.962	5	10	Yes	
10/02/2023	12:06	Monitoring Point A (Rangoon Avenue, Shell Cove)	105.5	115	120	Yes	0.209	5	10	Yes	
		Monitoring Point B (Killalea Regional Park, Shell Cove)	101.0	115	120	Yes	0.217	5	10	Yes	
20/02/2023	11:07	Monitoring Point A (Rangoon Avenue, Shell Cove)	104.2	115	120	Yes	1.107	5	10	Yes	
		Monitoring Point B (Killalea Regional Park, Shell Cove)	109.2	115	120	Yes	0.593	5	10	Yes	
22/02/2023	12:23	Monitoring Point A (Rangoon Avenue, Shell Cove)	106.0	115	120	Yes	1.637	5	10	Yes	
		Monitoring Point B (Killalea Regional Park, Shell Cove)	111.8	115	120	Yes	0.140	5	10	Yes	
23/02/2023	11:12	Monitoring Point A (Rangoon Avenue, Shell Cove)	107.5	115	120	Yes	0.773	5	10	Yes	
		Monitoring Point B (Killalea Regional Park, Shell Cove)	101.0	115	120	Yes	0.398	5	10	Yes	
27/02/2023	12:06	Monitoring Point A (Rangoon Avenue, Shell Cove)	108.8	115	120	Yes	1.248	5	10	Yes	
		Monitoring Point B (Killalea Regional Park, Shell Cove)	106.0	115	120	Yes	1.410	5	10	Yes	
1/03/2023	11:16	Monitoring Point A (Rangoon Avenue, Shell Cove)	104.9	115	120	Yes	0.266	5	10	Yes	
		Monitoring Point B (Killalea Regional Park, Shell Cove)	95.9	115	120	Yes	0.227	5	10	Yes	
8/03/2023	11:15	Monitoring Point A (Rangoon Avenue, Shell Cove)	111.5	115	120	Yes	2.691	5	10	Yes	
		Monitoring Point B (Killalea Regional Park, Shell Cove)	108.4	115	120	Yes	0.626	5	10	Yes	
15/03/2023	12:07	Monitoring Point A (Rangoon Avenue, Shell Cove)	107.5	115	120	Yes	2.937	5	10	Yes	
		Monitoring Point B (Killalea Regional Park, Shell Cove)	107.0	115	120	Yes	1.404	5	10	Yes	
22/03/2023	12:56	Monitoring Point A (Rangoon Avenue, Shell Cove)	104.9	115	120	Yes	1.411	5	10	Yes	Two blasts detonated as a single blast event.
		Monitoring Point B (Killalea Regional Park, Shell Cove)	106.0	115	120	Yes	1.328	5	10	Yes	
30/03/2023	12:13	Monitoring Point A (Rangoon Avenue, Shell Cove)	114.8	115	120	Yes	1.959	5	10	Yes	
		Monitoring Point B (Killalea Regional Park, Shell Cove)	108.0	115	120	Yes	0.635	5	10	Yes	
5/04/2023	12:10	Monitoring Point A (Rangoon Avenue, Shell Cove)	102.8	115	120	Yes	0.282	5	10	Yes	
		Monitoring Point B (Killalea Regional Park, Shell Cove)	100.0	115	120	Yes	0.160	5	10	Yes	
12/04/2023	12:23	Monitoring Point A (Rangoon Avenue, Shell Cove)	109.9	115	120	Yes	1.314	5	10	Yes	
		Monitoring Point B (Killalea Regional Park, Shell Cove)	104.2	115	120	Yes	1.342	5	10	Yes	
14/04/2023	10:58	Monitoring Point A (Rangoon Avenue, Shell Cove)	116.6	115	120	Yes	1.661	5	10	Yes	
		Monitoring Point B (Killalea Regional Park, Shell Cove)	106.5	115	120	Yes	0.321	5	10	Yes	
20/04/2023	12:13	Monitoring Point A (Rangoon Avenue, Shell Cove)	108.0	115	120	Yes	0.931	5	10	Yes	
		Monitoring Point B (Killalea Regional Park, Shell Cove)	91.5	115	120	Yes	0.584	5	10	Yes	
26/04/2023	11:48	Monitoring Point A (Rangoon Avenue, Shell Cove)	97.5	115	120	Yes	0.201	5	10	Yes	
		Monitoring Point B (Killalea Regional Park, Shell Cove)	<88	115	120	Yes	0.406	5	10	Yes	
3/05/2023	12:42	Monitoring Point A (Rangoon Avenue, Shell Cove)	102.8	115	120	Yes	0.919	5	10	Yes	Two blasts detonated as a single blast event.
		Monitoring Point B (Killalea Regional Park, Shell Cove)	95.9	115	120	Yes	0.786	5	10	Yes	
5/05/2023	11:15	Monitoring Point A (Rangoon Avenue, Shell Cove)	107.0	115	120	Yes	2.266	5	10	Yes	
		Monitoring Point B (Killalea Regional Park, Shell Cove)	108.0	115	120	Yes	0.921	5	10	Yes	
10/05/2023	12:12	Monitoring Point A (Rangoon Avenue, Shell Cove)	106.5	115	120	Yes	1.850	5	10	Yes	
		Monitoring Point B (Killalea Regional Park, Shell Cove)	106.0	115	120	Yes	1.497	5	10	Yes	
17/05/2023	11:51	Monitoring Point A (Rangoon Avenue, Shell Cove)	98.8	115	120	Yes	0.815	5	10	Yes	Misfire - will need to refire.
		Monitoring Point B (Killalea Regional Park, Shell Cove)	95.9	115	120	Yes	0.352	5	10	Yes	Misfire - will need to refire.
19/05/2023	11:31	Monitoring Point A (Rangoon Avenue, Shell Cove)	106.5	115	120	Yes	1.640	5	10	Yes	
		Monitoring Point B (Killalea Regional Park, Shell Cove)	106.0	115	120	Yes	0.672	5	10	Yes	
24/05/2023	12:20	Monitoring Point A (Rangoon Avenue, Shell Cove)	107.5	115	120	Yes	1.716	5	10	Yes	
		Monitoring Point B (Killalea Regional Park, Shell Cove)	104.9	115	120	Yes	1.159	5	10	Yes	
31/05/2023	12:19	Monitoring Point A (Rangoon Avenue, Shell Cove)	106.5	115	120	Yes	0.997	5	10	Yes	
		Monitoring Point B (Killalea Regional Park, Shell Cove)	94.0	115	120	Yes	0.394	5	10	Yes	
1/06/2023	13:30	Monitoring Point A (Rangoon Avenue, Shell Cove)	<105	115	120	Yes	<0.500	5	10	Yes	Refire. Monitoring result lower than monitor trigger (nil trigger).
		Monitoring Point B (Killalea Regional Park, Shell Cove)	<105	115	120	Yes	<0.500	5	10	Yes	Refire. Monitoring result lower than monitor trigger (nil trigger).
2/06/2023	13:09	Monitoring Point A (Rangoon Avenue, Shell Cove)	<88	115	120	Yes	0.323	5	10	Yes	
		Monitoring Point B (Killalea Regional Park, Shell Cove)	<105	115	120	Yes	<0.500	5	10	Yes	Monitoring result lower than monitor trigger (nil trigger)
7/06/2023	12:01	Monitoring Point A (Rangoon Avenue, Shell Cove)	103.5	115	120	Yes	0.497	5	10	Yes	
		Monitoring Point B (Killalea Regional Park, Shell Cove)	97.5	115	120	Yes	0.520	5	10	Yes	
14/06/2023	13:00	Monitoring Point A (Rangoon Avenue, Shell Cove)	114.8	115	120	Yes	0.688	5	10	Yes	
		Monitoring Point B (Killalea Regional Park, Shell Cove)	115.9	115	120	Yes	1.424	5	10	Yes	
19/06/2023	12:11	Monitoring Point A (Rangoon Avenue, Shell Cove)	95.9	115	120	Yes	0.528	5	10	Yes	

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		Monitoring Point B (Killalea Regional Park, Shell Cove)	108.0	115	120	Yes	0.403	5	10	Yes	
23/06/2023	11:55	Monitoring Point A (Rangoon Avenue, Shell Cove)	110.6	115	120	Yes	0.079	5	10	Yes	
		Monitoring Point B (Killalea Regional Park, Shell Cove)	110.9	115	120	Yes	0.214	5	10	Yes	
28/06/2023	12:22	Monitoring Point A (Rangoon Avenue, Shell Cove)	107.0	115	120	Yes	0.633	5	10	Yes	
		Monitoring Point B (Killalea Regional Park, Shell Cove)	<88	115	120	Yes	0.363	5	10	Yes	
29/06/2023	12:10	Monitoring Point A (Rangoon Avenue, Shell Cove)	102.8	115	120	Yes	1.096	5	10	Yes	
		Monitoring Point B (Killalea Regional Park, Shell Cove)	91.5	115	120	Yes	0.380	5	10	Yes	
5/07/2023	12:03	Monitoring Point A (Rangoon Avenue, Shell Cove)	103.5	115	120	Yes	1.214	5	10	Yes	
		Monitoring Point B (Killalea Regional Park, Shell Cove)	95.9	115	120	Yes	0.281	5	10	Yes	
7/07/2023	14:18	Monitoring Point A (Rangoon Avenue, Shell Cove)	101.9	115	120	Yes	0.447	5	10	Yes	
		Monitoring Point B (Killalea Regional Park, Shell Cove)	88.0	115	120	Yes	0.375	5	10	Yes	
13/07/2023	12:11	Monitoring Point A (Rangoon Avenue, Shell Cove)	101.9	115	120	Yes	0.350	5	10	Yes	
		Monitoring Point B (Killalea Regional Park, Shell Cove)	<88	115	120	Yes	0.429	5	10	Yes	
18/07/2023	11:29	Monitoring Point A (Rangoon Avenue, Shell Cove)	109.2	115	120	Yes	1.940	5	10	Yes	
		Monitoring Point B (Killalea Regional Park, Shell Cove)	106.0	115	120	Yes	0.809	5	10	Yes	
21/07/2023	11:52	Monitoring Point A (Rangoon Avenue, Shell Cove)	98.8	115	120	Yes	0.245	5	10	Yes	
		Monitoring Point B (Killalea Regional Park, Shell Cove)	95.9	115	120	Yes	0.143	5	10	Yes	
26/07/2023	12:31	Monitoring Point A (Rangoon Avenue, Shell Cove)	108.4	115	120	Yes	1.694	5	10	Yes	
		Monitoring Point B (Killalea Regional Park, Shell Cove)	103.5	115	120	Yes	0.552	5	10	Yes	
3/08/2023	9:20	Monitoring Point A (Rangoon Avenue, Shell Cove)	108.8	115	120	Yes	0.919	5	10	Yes	
		Monitoring Point B (Killalea Regional Park, Shell Cove)	100.0	115	120	Yes	0.527	5	10	Yes	
4/08/2023	12:09	Monitoring Point A (Rangoon Avenue, Shell Cove)	112.0	115	120	Yes	1.082	5	10	Yes	
		Monitoring Point B (Killalea Regional Park, Shell Cove)	100.0	115	120	Yes	0.464	5	10	Yes	
9/08/2023	11:23	Monitoring Point A (Rangoon Avenue, Shell Cove)	101.9	115	120	Yes	0.370	5	10	Yes	
		Monitoring Point B (Killalea Regional Park, Shell Cove)	94.0	115	120	Yes	0.419	5	10	Yes	
18/08/2023	11:31	Monitoring Point A (Rangoon Avenue, Shell Cove)	100.0	115	120	Yes	0.471	5	10	Yes	54kmph winds
		Monitoring Point B (Killalea Regional Park, Shell Cove)	118.8	115	120	Yes	0.615	5	10	Yes	54kmph winds
23/08/2023	11:59	Monitoring Point A (Rangoon Avenue, Shell Cove)	N/A	115	120	N/A	1.185	5	10	Yes	Microphone fault; airblast overpressure inaccurate.
		Monitoring Point B (Killalea Regional Park, Shell Cove)	100.0	115	120	Yes	0.879	5	10	Yes	
30/08/2023	11:58	Monitoring Point A (Rangoon Avenue, Shell Cove)	104.9	115	120	Yes	0.352	5	10	Yes	
		Monitoring Point B (Killalea Regional Park, Shell Cove)	101.9	115	120	Yes	0.299	5	10	Yes	
1/09/2023	12:10	Monitoring Point A (Rangoon Avenue, Shell Cove)	97.5	115	120	Yes	0.262	5	10	Yes	
		Monitoring Point B (Killalea Regional Park, Shell Cove)	98.8	115	120	Yes	0.214	5	10	Yes	
7/09/2023	11:38	Monitoring Point A (Rangoon Avenue, Shell Cove)	110.5	115	120	Yes	1.030	5	10	Yes	
		Monitoring Point B (Killalea Regional Park, Shell Cove)	100.0	115	120	Yes	0.553	5	10	Yes	
13/09/2023	12:26	Monitoring Point A (Rangoon Avenue, Shell Cove)	95.9	115	120	Yes	0.417	5	10	Yes	
		Monitoring Point B (Killalea Regional Park, Shell Cove)	<105.0	115	120	Yes	<0.500	5	10	Yes	Monitoring result lower than monitor trigger (nil trigger)
15/09/2023	11:58	Monitoring Point A (Rangoon Avenue, Shell Cove)	<105.0	115	120	Yes	<0.500	5	10	Yes	Monitoring result lower than monitor trigger (nil trigger)
		Monitoring Point B (Killalea Regional Park, Shell Cove)	102.6	115	120	Yes	0.730	5	10	Yes	
20/09/2023	13:01	Monitoring Point A (Rangoon Avenue, Shell Cove)	112.8	115	120	Yes	1.159	5	10	Yes	
		Monitoring Point B (Killalea Regional Park, Shell Cove)	111.2	115	120	Yes	0.541	5	10	Yes	
5/10/2023	11:56	Monitoring Point A (Rangoon Avenue, Shell Cove)	103.5	115	120	Yes	1.619	5	10	Yes	
		Monitoring Point B (Killalea Regional Park, Shell Cove)	102.4	115	120	Yes	0.827	5	10	Yes	
13/10/2023	12:00	Monitoring Point A (Rangoon Avenue, Shell Cove)	94.0	115	120	Yes	0.432	5	10	Yes	
		Monitoring Point B (Killalea Regional Park, Shell Cove)	92.6	115	120	Yes	0.169	5	10	Yes	
23/10/2023	12:04	Monitoring Point A (Rangoon Avenue, Shell Cove)	94.0	115	120	Yes	0.169	5	10	Yes	
		Monitoring Point B (Killalea Regional Park, Shell Cove)	94.0	115	120	Yes	0.309	5	10	Yes	
8/11/2023	13:35	Monitoring Point A (Rangoon Avenue, Shell Cove)	112.0	115	120	Yes	1.661	5	10	Yes	Strong NNE wind gusts
		Monitoring Point B (Killalea Regional Park, Shell Cove)	107.5	115	120	Yes	1.190	5	10	Yes	Strong NNE wind gusts
15/11/2023	12:46	Monitoring Point A (Rangoon Avenue, Shell Cove)	97.5	115	120	Yes	0.532	5	10	Yes	Southerly Wind gust upto 28kph
		Monitoring Point B (Killalea Regional Park, Shell Cove)	106.5	115	120	Yes	0.374	5	10	Yes	Southerly Wind gust upto 28kph
22/11/2023	12:05	Monitoring Point A (Rangoon Avenue, Shell Cove)	101.0	115	120	Yes	0.348	5	10	Yes	Southerly Wind Gust upto 46kph
		Monitoring Point B (Killalea Regional Park, Shell Cove)	109.2	115	120	Yes	0.182	5	10	Yes	Southerly Wind Gust upto 46kph
30/11/2023	12:00	Monitoring Point A (Rangoon Avenue, Shell Cove)	<110.0	115	120	Yes	<0.130	5	10	Yes	Monitoring result lower than monitor trigger (nil trigger)
		Monitoring Point B (Killalea Regional Park, Shell Cove)	98.9	115	120	Yes	0.832	5	10	Yes	
13/12/2023	12:05	Monitoring Point A (Rangoon Avenue, Shell Cove)	112.0	115	120	Yes	0.328	5	10	Yes	
		Monitoring Point B (Killalea Regional Park, Shell Cove)	103.5	115	120	Yes	0.401	5	10	Yes	
20/12/2023	11:15	Monitoring Point A (Rangoon Avenue, Shell Cove)	103.5	115	120	Yes	0.603	5	10	Yes	Overcast low cloud day southerly
		Monitoring Point B (Killalea Regional Park, Shell Cove)	102.8	115	120	Yes	0.395	5	10	Yes	Overcast low cloud day southerly
21/12/2023	10:00	Monitoring Point A (Rangoon Avenue, Shell Cove)	114.2	115	120	Yes	<0.130	5	10	Yes	Vibration monitoring result lower than monitor trigger
		Monitoring Point B (Killalea Regional Park, Shell Cove)	109.5	115	120	Yes	0.165	5	10	Yes	

REGULATORY APPROVALS

Bass Point Quarry - Blast Monitoring Data - 2023



Date	Time	Blast Monitor location	Airblast overpressure (dB(Lin Peak))	Airblast overpressure lower limit (dB(Lin Peak))	Airblast overpressure upper limit (dB(Lin Peak))	Airblast overpressure compliant (Yes / No)	Ground vibration (mm/sec)	Ground vibration lower limit (mm/sec)	Ground vibration upper limit (mm/sec)	Ground vibration compliant (Yes / No)	Comments
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Project Approval MP 08_0143

Environment Protection Licence EPL 2193*

Schedule 3, Condition 7

BLASTING

Blasting Criteria

7. The Proponent **must** ensure that blasting on the site does not cause exceedances of the criteria in Table 3.

Table 3: Blasting criteria

Location	Airblast overpressure (dB(Lin Peak))	Ground vibration (mm/s)	Allowable exceedance
	120	10	0%
Any residence on privately owned land	115	5	5% of the total number of blasts over a period of 12 months

However, these criteria do not apply if the Proponent has a written agreement with the relevant residential owner or infrastructure provider/owner, and the Proponent has advised the Department in writing of the terms of this agreement.

Condition L3

L3 Blasting

L3.1 The ground vibration peak particle velocity from blasting operations carried out at the premises must not exceed:

- a) 5 mm/s for more than 5% of the total number of blasts carried out at the premises during each reporting period; and
- b) 10 mm/s at any time.

At "Monitoring Point A - Blast Monitor" or "Monitoring Point B - Blast Monitor" as labelled on the aerial photo titled "Bass Point Quarry EPA Monitoring Locations" dated 17 April 2019.

L3.2 The airblast overpressure level from blasting operations at the premises must not exceed:

- a) 115 dB (Lin Peak) for more than 5% of the total number of blasts during each reporting period; and
- b) 120 dB (Lin Peak) at any time.

At "Monitoring Point A - Blast Monitor" or "Monitoring Point B - Blast Monitor" as labelled on the aerial photo titled "Bass Point Quarry EPA Monitoring Locations" dated 17 April 2019.

* Available on the POEO Public Register via [this link](#)