

A proud member of the Hunter Construction Group

Karuah East Quarry

Environmental Monitoring Report:

February 2023

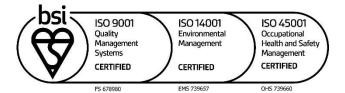


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Appendix 1

Monitoring Locations

1 Introduction

This report has been completed to meet the requirements of Section 66(6) of the *Protection of the Environment Operations Act 1997* and the NSW Environmental Protection Authority's (EPA) *Requirements for Publishing Pollution Monitoring Data* (EPA, 2013). This report summarises the required monitoring data under *Environmental Protection Licence 20611* (the EPL) (see Table 1) and *Project Approval 09_0175* (the Consent) (see Table 2) for Karuah East Quarry (the Quarry).

Table 1 Environmental Protection Licence 20611 information

Environmental Protection Licence Number	20611
Licensee's Name	Karuah East Quarry Pty Limited
	Licensee Postal Address: PO Box 3284 Thornton NSW 2322.
Licensee's Address	Premises Address: Karuah East Quarry, Blue Rock Close, Karuah NSW 2324.
Link to Full Licence on the EPA Website	https://apps.epa.nsw.gov.au/prpoeoapp/

Table 2 Project Approval 09 0175 information

Development Application	PA 09_0175			
Applicant	Karuah East Quarry Pty Limited			
Approval Authority	Minister for Planning			
Link to Full Development Approval on Major Projects Planning Portal	https://www.planningportal.nsw.gov.au/major-projects/project/15026			

A summary of the environmental monitoring data for February 2023 is covered in this report.

Tables throughout this report provide key monitoring information from the EPL and the Consent, such as:

- location of monitoring;
- pollutant;
- · unit of measurement; and
- monitoring frequency required.

Monitoring locations are identified in Appendix 1.

2 AIR QUALITY MONITORING

Dust emissions generated by the Quarry operation must not cause additional exceedances of ambient air quality criterion outlined in *Schedule 3, Condition 13* of the Consent (see Table 3, Table 4 and Table 5). Deposited dust and TSP/PM $_{10}$ monitoring is undertaken at the locations listed in Table 6.

Table 3 PA 09_0175 Long Term Assessment Criteria for Deposited Dust

Pollutant	Averaging Period	Maximum Increase in Deposited Dust Level ¹	Maximum Total Deposited Dust Level ¹	
Deposited dust	Annual	2 g/m²/month	4 g/m²/month	

Note 1: Deposited dust is assessed as insoluble solids as defined by AS 3580.10.1-2003.

Table 4 PA 09_0175 Long Term Impact Assessment Criteria for Particulate Matter

Pollutant	Average period	Criterion
Total suspended particulate (TSP) matter	Annual	90 μg/m³
Particulate matter <10 μm (PM ₁₀)	Annual	30 μg/m³

Table 5 PA 09_0175 Short Term impact Assessment Criterion for Particulate Matter

Pollutant	Averaging period	Criterion
Particulate matter <10 μm (PM ₁₀)	24 hour	50 μg/m³

Table 6 Air quality monitoring locations

Site ID	EPL ID	Location	Address	GPS Coordinates
DDG 1	MP 4	South-West of	5760 Pacific Hwy,	32°38′04′′S
ו פטט	IVIP 4	Karuah East Quarry	Karuah NSW 2324	151°59′58″E
DDG 2	MP 5	South-West of	5770 Pacific Hwy,	32°38′02′′S
DDG 2	IVIP 5	Karuah East Quarry	Karuah NSW 2324	152°00′09′′E
DDC 3	MP 6	South-West of	DP 1024341 Karuah	32°37′57″S
DDG 3	IVIP 0	Karuah East Quarry		151°59′41″E
DDG 4	MP 7	East of Karuah East	21 Halloran Rd	32° 37' 30.87"S
DDG 4	IVIP 7	Quarry	North Arm Cove NSW 2324	152°01'10.18"E
DDG 5	MDO	South-West of	Lot 21 DP 1024341 Karuah	32° 37' 55.33"S
DDG 5	MP 8	Karuah East Quarry	NSW 2324	152°00'2.74"E
HVAS	MDO	South-West of Karuah	5770 Pacific Hwy, Karuah	32°38′03″S
(TSP/PM10)	MP 9	East Quarry	NSW 2324	152°00′09″E

All dust monitoring is undertaken in accordance with the *Approved Methods of Sampling and Analysis of Air Pollutants in NSW* (EPA, 2022).

2.1 Deposited Dust Monitoring

Deposited dust results for the twelve months prior to and including February 2023 are shown in Table 7.

Table 7 Deposited dust monitoring results

Date On	Date Off	DDG 1	DDG 2	DDG 3	DDG 4	DDG 5
7/03/2022	5/04/2022	0.8	3.6	0.8	0.4	0.9
5/04/2022	5/05/2022	0.1	0.3	0.1	0.2	0.2
5/05/2022	3/06/2022	0.4	0.6	0.4	0.3	0.3
3/06/2022	5/07/2022	0.3	0.2	0.2	0.2	0.3
5/07/2022	3/08/2022	0.3	0.3	0.4	0.7	0.4
3/08/2022	2/09/2022	0.9	0.9	0.6	1.0	0.9
2/09/2022	4/10/2022	0.5	02	0.6	0.3	0.8
4/10/2022	3/11/2022	02	0.5	0.5	0.3	0.3
3/11/2022	5/12/2022	0.8	0.8	0.7	1.2	2
5/12/2022	5/01/2023	0.7	0.7	0.3	0.6	0.1
5/01/2023	3/02/2023	0.2	0.4	0.8	0.1	0.4
3/02/2023	5/03/2023	0.9	0.7	0.2	0.3	0.8
YTD av	verage	0.5	0.8	0.5	0.5	0.6

Monitoring results indicate that for the period from 3 February 2023 to 5 March 2023 the insoluble solid levels recorded at DDG 1 to DDG 5 monitoring locations were below the project criterion of 4 g/m²/month over an annual averaging period.

2.2 HIGH VOLUME AIR SAMPLING

The TSP and PM10 results for February 2023, and a progressive annual average are shown in Table 8. Figure 1 illustrates the year-to-date results for HVAS monitoring.

Table 8 High Volume Air Sampling (µg/m³) results

Run Date	HVAS TSP (μg/m³)	HVAS PM ₁₀ (µg/m³)
4/02/2023	25	14
10/02/2023	20	12
16/02/2023	18	10
22/02/2023	17	8
28/02/2023	20	11
24hr Average Criteria ¹	N/A	50
Annual Average Criteria ¹	90	30
Progressive Annual Average ²	18.1	10.6

Note: ^{1.} Criteria as specified in PA 09_0175.

All HVAS monitoring results for February 2023 were compliant with the long term and short term impact assessment criteria outlined in *Schedule 3 Condition 13* of the Consent (see Table 3, Table 4 and Table 5).

² The progressive annual average is from 01/01/2023 to 28/02/2023, this is not a measure of compliance.

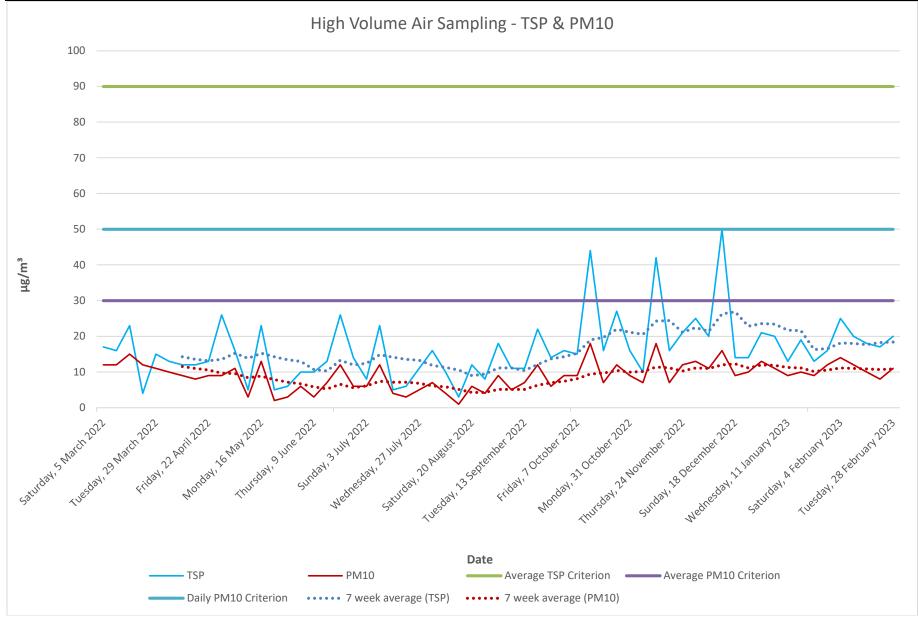


Figure 1 HVAS Sampling Long-term Trends

3 BLAST MONITORING

Blasting must only be carried out between the hours of 9:00 AM and 4:00 PM Monday to Friday. No blasting is permitted on Saturday, Sundays, or Public Holidays. Blasting outside of the hours specified by the EPL/Consent, can only take place with the written approval of relevant regulatory authorities.

KEQ conduct monitoring at the nearest residential location (EPL 20611 EPA identification no. 11) to ensure that airblast overpressure level and ground vibration peak particle velocity do not exceed the EPL and Consent criteria (see Table 9).

Table 9 Blasting criteria

Location	Airblast Overpressure (Decibels (Linear Peak))	Ground Vibration Peak Particle Velocity (Millimetres/second)	Allowable exceedance
Private residence	120	10	0%
(Location B)	115	5	5% of total blasts over 12 months

There were two blasts conducted in February 2023, see Table 10 for monitoring results.

Table 10 Blast monitoring results

Date	Time	Location	Overpressure (dB(L))	Vibration (mm/s)
Monday, 6 February 2023	2:28pm	RL 120	110.5	1.05
Monday, 14 February 2023	12:28pm	RL 120	Nil Trigger	Nil Trigger

The monitoring results demonstrate compliance with blasting criteria of the Consent and the EPL.

4 Noise Monitoring

Noise monitoring is undertaken in accordance with the approved Noise Management Plan (April, 2022).

As the Quarry is operational with no construction activities being completed, construction noise is not being considered. Table 11 summarises the operational noise criteria.

Noise generated by the Quarry operation must not exceed the criteria specified in *Schedule 3, Condition 3* of the Consent at each location outlined in Table 11.

Table 11 Operational Noise Criteria (dB(A) LA_{eq(15min)}/LA_(max))

Monitoring	Description	Easting (MGA)	Northing (MGA)	Appl	icable noise limit,	, dB
Location ID				Morning Shoulder L _{Aeq(15 minute)} /L _{Amax}	Day L _{Aeq(15 minute)}	Evening L _{Aeq(15 minute)}
A	Mill Hill Close West	406623	6388704	35/52	42	40
В	Mill Hill Close West	406405	6388859	35/52	40	40
F	The Branch Lane West	405639	6389782	35/52	40	35
G	Halloran Road South	408154	6389523	35/52	43	39
Н	Halloran Road West	407795	6389868	35/52	44	46

In accordance with the Consent, a noise monitoring program has been implemented. A summary of this monitoring program is outlined in Table 12.

Table 12 Noise monitoring locations

Monitoring Method	onitoring Method Location		Criteria	
Attended noise	A, B, F, G, H	Quartorly	Refer to Table 11	
monitoring	А, Б, Г, О, П	Quarterly	Kerer to rable 11	

4.1 ATTENDED MONITORING

The most recent results for attended monitoring, undertaken 7 February and 8 February 2023 (see Table 13), show ambient noise levels include noise sources such as traffic from the nearby Pacific Highway and wildlife such as insects and birds. The Quarry operations were audible at location G and H during day and evening period. Monitoring for all locations across all periods was compliant with the criteria.

4.2 UNATTENDED NOISE MONITORING

A review of the historical unattended noise monitoring data by expert noise consultants (EMM) found no evident trends associated with Karuah East Quarry operations. As a result of this review, Karuah East Quarry has decided to cease the unattended noise monitoring component of the quarterly compliance noise monitoring program.

Table 13 Attended Noise Monitoring (EMM, February 2023)

Location	Start Date and Time (Period)	Wi	nd	Stability Class	Limits apply? 1	Limit,	dB	Site level, dB ²		Exceedance, dB	
		Speed m/s	Direction ⁴		1	L _{Aeq,15} minute	L _{Amax}	L _{Aeq,15minute}	L _{Amax}	L _{Aeq,15} minute	L _{Amax}
А	7/02/2023 5:00 (MS)	1.1	101	F	Y	35	52	IA	IA	No	No
В	7/02/2023 5:16 (MS)	1.0	127	F	Y	35	52	IA	IA	No	No
F	7/02/2023 5:34 (MS)	1.2	97	F	Υ	35	52	IA	IA	No	No
G	7/02/2023 5:58 (MS)	0.9	123	F	Υ	35	52	IA	IA	No	No
н	7/02/2023 6:15 (MS)	0.8	111	F	Υ	35	52	IA	IA	No	No
А	7/02/2023 7:00 (D)	0.7	145	А	Υ	42	N/A	IA	N/A	No	N/A
В	7/02/2023 7:16 (D)	0.6	133	А	Υ	40	N/A	IA	N/A	No	N/A
F	7/02/2023 7:34 (D)	0.4	101	Α	Y	40	N/A	IA	N/A	No	N/A
G	7/02/2023 8:18 (D)	1.1	118	А	Y	43	N/A	<30	N/A	No	N/A
н	7/02/2023 8:35 (D)	1.3	114	А	Y	44	N/A	<30	N/A	No	N/A

Location	Start Date and Time (Period)	Wi	nd	Stability Class	Limits apply? 1	Limit,	dB	Site leve	l, dB ²	Exceedan	ce, dB
	1,1	Speed m/s	Direction 4			L _{Aeq,15minute}	L _{Amax}	L _{Aeq,15minute}	L _{Amax}	L _{Aeq,15minute}	L _{Amax}
A	8/02/2023 18:01 (E)	3.6	144	D	N	40	N/A	IA	N/A	No	N/A
В	8/02/2023 18:17 (E)	2.9	141	E	Υ	40	N/A	IA	N/A	No	N/A
F	8/02/2023 18:35 (E)	2.9	135	E	Υ	35	N/A	IA	N/A	No	N/A
G	8/02/2023 18:59 (E)	1.8	135	F	Υ	39	N/A	IA	N/A	No	N/A
Н	8/02/2023 19:16 (E)	1.8	154	F	Υ	46	N/A	IA	N/A	No	N/A

Notes:

- 1. Noise emission limits do not apply during periods of rainfall or winds greater than 3 metres per second (at a height of 10 metres).
- 2. Site-only $L_{\mbox{Aeq},15\mbox{minute}}$, includes modifying factor penalties if applicable.
- 3. NA in exceedance column means criterion was not applicable due to atmospheric conditions outside those specified in project approval.
- 4. Degrees magnetic north, "-" indicates calm conditions.
- 5. MS = Morning Shoulder period; D = Day period; E = Evening period.

5 SURFACE WATER MONITORING

5.1 MONTHLY SURFACE WATER MONITORING PROGRAM

Monthly water monitoring was undertaken on 3 February 2023 in accordance with the *Surface Water Monitoring Program* outlined in the KEQ *Water Management Plan (2015)*. Results are displayed in Table 14 along with the EPL discharge criterion and ANZECC (2000) Guidelines. These results do not determine compliance, they are used to analyse trends and assist with water management.

Table 14 Water monitoring results

Table 14 Water Monitorn		EPL 20611					
Parameter	Units of measure	concentration limit during discharge	Dam 1	Dam 2	Dam 3	SW 2	Lot 3
Oil and grease	Milligrams per litre	5 and/or non-visible	<5	<5	<5	<5	<5
рН	рН	6.5 – 8.5	8.87	8.03	8.22	7.41	7.15
Total suspended solids	Milligrams per litre	40	5	<5	<5	<5	26
		ANZECC Guidelines ¹					
Conductivity	μS/cm	125 – 2200	876	747	880	560	257
Total dissolved solids	mg/L		535	555	610	367	162
Total phosphorus	mg/L	0.025	<0.01	<0.01	<0.01	0.05	0.02
Ammonia	mg/L	0.2	<0.01	<0.01	<0.01	<0.01	<0.01
Nitrogen (Nitrate)	mg/L	0.350	5.47	<0.01	<0.01	<0.01	<0.01
Total hardness (as CaCO3)	mg/L		113	193	226	62	48
Arsenic	mg/L	0.024	<0.001	<0.001	<0.001	<0.001	<0.001
Cadmium	mg/L	0.0002	<0.0001	<0.0001	<0.0001	<0.0001	<0.001
Calcium	mg/L		24	59	74	10	11
Chromium	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Copper	mg/L	0.0014	<0.001	<0.001	<0.001	<0.001	<0.001
Lead	mg/L	0.0034	<0.001	<0.001	<0.001	<0.001	<0.001
Magnesium	mg/L		13	11	10	9	5
Manganese	mg/L	1.9	0.015	0.023	0.019	0.661	0.13
Nickel	mg/L	0.011	<0.001	<0.001	<0.001	<0.001	<0.001

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Potassium	mg/L		2	2	1	2	1
Sodium	mg/L		111	61	82	71	26
Vanadium	mg/L		<0.01	<0.01	<0.01	<0.01	<0.01
Zinc	mg/L	0.0312	<0.005	<0.005	<0.005	<0.005	<0.005

Note 1 – Key default trigger values presented in ANZECC 2000 for slightly disturbed upland rivers in NSW. Heavy metals based on hard water (120-179 mg CaCO³/L).

5.2 DISCHARGE MONITORING

Condition *L2* of the EPL outlines the requirement to monitor water discharges from the Quarry via the licensed discharge points (LDP1, LDP2 and LDP3), see Table 15.

Table 15 EPL20611 - Pollutant concentration limits

Pollutant	Units of Measure	Concentration Limit		
Oil and Grease	Visible	5 &/or none visible		
pH	pH units	6.5 – 8.5		
Total suspended solids	Milligrams per litre	40		

5.2.1 Dam 1 (LDP1)

Dam 1 had zero days of discharge during the month of February (see Table 16).

Table 16 Discharge monitoring - LDP1

Date	рН	Total suspended solids	Oil and grease	Controlled	
-	-	-	-	-	

5.2.2 Dam 2 (LDP2)

Dam 2 had zero days of discharge during the month of February (see Table 17).

Table 17 Discharge monitoring - LDP2

Date	рН	Total suspended solids	Oil and grease	Controlled
-			-	-

5.2.3 Dam 3 (LDP3)

Dam 3 had zero days of discharge during the month of February (see Table 18).

Table 18 Discharge monitoring - LDP3

Date	рН	Total suspended solids	Oil and grease	Controlled	
-	-	-	-	-	

6 WEATHER MONITORING

Karuah East Quarry has a permanent meteorological station to monitor various weather parameters including temperature, wind speed/direction, solar radiation, and rainfall. **Figure 2** shows the recorded results for the local weather during February 2023. A wind rose is a graphic tool used to depict the average direction and speed of the wind over a recorded period. **Figure 3** shows the wind rose generated from data gathered during February 2023.

Monthly Weather Summary



Site: Karuah Quarry Month: February 2023

nonth		February .	Charles and the Control of the Contr		1						1- 1- 1- 1-		
		Temperatu			Temperatu			Winds			Solar Radia		Rain
Date	Day	Max ¹	Min ²	Ave ¹	Max ¹	Min	Ave		Ave Speed ¹		Maxi	Ave ¹	
_		*c	,*C	10	Υ.	30.	*C	km/h	km/h	deg	W/m²	W/m²	mm
1	Wed	30.3	20.5	23.9	26.6	20.8	23.0	24.9	4.9	162	1233.3	285.6	0.2
2	Thu	35.6	19.2	25.5	33.5	19.9	25.3	24.9	4.3	144	1044.1	271.2	
3	Fri	34.3	18.1	25.2	31.6	18.7	24.6	31.9	6.0	201	1134.9	296.3	
4	Sat	30.0	17.6	20.2	28.0	18.5	20.3	41.4	5.8	226	1020.0	322.7	
5	Sun	31.8	11.2	22.6	27.3	12.4	21.9	27.2	5.0	157	984.2	307.0	
6	Mon	30.9	16.8	24.2	27.9	17.2	23.5	34.3	6.2	133	1110.0	286.6	
7	Tue	31.6	19.4	23.3	28.1	20.0	22.9	34.3	5.5	133	1101.7	249.3	
8	Wed	31.1	17.1	23.4	27.5	17.7	22.9	33.1	6.4	148	1092.4	269.6	
9	Thu	27.8	18.4	21.7	26.2	19.0	21.6	22.5	3.7	157	873.3	138.3	
10	Fri	31.9	16.0	23.6	28.6	16.8	23.2	26.0	4.6	144	1210.7	253.2	
11	Sat	36.4	15.9	26.4	33.3	16.8	26.0	29.6	4.9	139	1074.1	290.8	
12	Sun	32.9	17.8	25.8	29.7	18.9	24.5	41.4	8.4	168	945.0	276.7	
13	Mon	28.5	22.2	22.4	24.8	22.3	21.6	29.6	6.2	173	1254.2	180.2	
14	Tue	25.0	18.8	18.7	23.0	18.8	18.7	31.9	3.2	169	1100.7	126.1	1.6
15	Wed	28.9	14.5	20.9	26.0	15.4	20.7	30.8	4.7	157	1085.7	266.8	4.2
16	Thu	31.4	13.3	22.9	28.4	14.2	22.3	30.8	5.6	158	929.9	292.6	0.2
17	Fri	33.7	15.5	24.3	30.5	16.2	23.8	31.9	5.0	146	905.0	281.7	
18	Set	37.2	16.3	26.8	34.1	17.3	26.1	40.2	6.4	182	901.7	263.4	
19	Sun	32.4	19.4	25.0	28.3	19.4	24.2	26.0	6.2	146	1130.0	249.6	0.8
20	Mon	34.8	19.5	25.7	32.2	20.0	25.2	31.9	6.2	131	967.4	278.2	0.2
21	Tue	34.9	18.2	24.8	31.3	18.7	24.0	31.9	4.2	161	1098.3	253.9	
22	Wed	20.8	19.6	18.9	20.8	19.7	19.4	45.0	7.5	149	387.4	35.6	1.8
23	Thu	23.1	16.6	19.0	22.6	17.4	19.2	36.7	4.2	169	1109.9	122.9	25.0
24	Fri	27.8	15.7	19.7	24.9	16.1	19.3	27.2	4.2	177	1107.4	261.9	3.2
25	Set	28.8	13.2	20.8	25.8	13.6	20.8	35.5	4.5	149	1182.5	232.7	
26	Sun	34.7	14.2	24.9	32.4	15.0	25.0	22.5	4.2	158	889.2	265.3	
27	Mon	31.8	17.9	23.6	27.7	19.0	22.8	24.9	5.2	194	1010.0	191.7	
28	Tue	27.8	19.1	23.1	26.0	19.1	22.9	29.6	4.4	175	1167.4	135.4	1.6
_	Total		17.2	23,1	28.1	17.8	22.7	31.4	5.3	160.8	1037.5	238.8	38.8
Hig		37.2	22.2	26,8	34.1	22.3	26.1	45.0	8.4	-	1254.2	322,7	25.0
Lo	W	20.8	11.2	18.7	20.8	12.4	18.7	22.5	3.2		387.4 No. rain d	35.6	6

^{2.} Values are for the 24 hours to 9am.

Figure 2 Weather Summary - February 2023

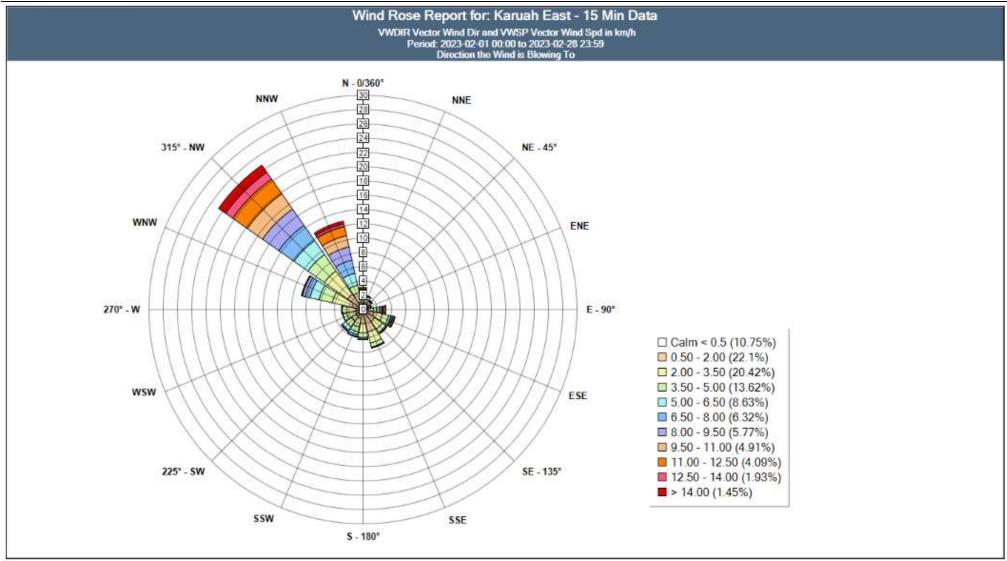


Figure 3 Wind Rose - February 2023

7 REPORTING

7.1 COMMUNITY CONSULTATIVE COMMITTEE

The purpose of a Community Consultative Committee (CCC) is to provide a forum for discussion between a proponent (KEQPL) and representatives of the community, stakeholder groups and the local council on issues directly relating to a specific State Significant Project (KEQ).

The KEQ CCC generally meets biannually (twice a year). Meeting minutes can be found at Hunter Quarries website https://hunterquarries.com.au/>.

On 19 September, the second KEQ CCC meeting for 2022 was held, below are the key details:

- A site inspection was undertaken with three KEQPL representatives and two community representative.
- The meeting was facilitated at the Karuah RSL with one chairperson, five community representatives and three KEQPL representatives.
- The next CCC meeting is scheduled for March 2023.

7.2 PRODUCTION

For the month of February 63,813 tonnes of various quarry products were produced.

7.3 Non-Compliance

There were nil non-compliance event during February 2023 to report (see Table 19).

Table 19 Non-compliance Register

Date	Nature of Incident	Action
February 2023	Nil complaints received	Nil action required

7.4 COMPLAINTS

There was one complaint received during February 2023 (see Table 20).

Table 20 Complaints Register

Date	Nature of Complaint	Action
February 2023	A complaint was received through the DPE regarding the impacts of blasting activities.	A report was prepared to respond to a request for information from the DPE. The report detailed noise impacts from blast activities as well as air quality monitoring during 2023.

Appendix 1 – Monitoring Locations

