

Grounded in Quality

A proud member of the Hunter Construction Group

Karuah East Quarry

Environmental Monitoring Report:

April 2023

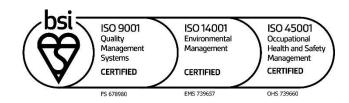


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Appendix 1

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).

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 <u>April 2023</u> 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/PM₁₀ 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 μ m (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 μ m (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
DDG I	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
DDG 3	MP 6	South-West of	DP 1024341, Karuah	32°37′57″S
0003	IVIP O	Karuah East Quarry	DP 1024341, Karuan	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		South-West of	Lot 21 DP 1024341 Karuah	32° 37' 55.33"S
000 5	MP 8	Karuah East Quarry	NSW 2324	152°00'2.74"E
HVAS	MP 9	South-West of Karuah	5770 Pacific Hwy, Karuah	32°38′03″S
(TSP/PM10)	IVIP 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 April 2023 are shown in Table 7.

Date On	Date Off	DDG 1	DDG 2	DDG 3	DDG 4	DDG 5
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
5/03/2023	5/04/2023	1.1	1.5	1.1	1.1	1.1
5/04/2023	4/05/2023	0.3	0.5	0.3	0.2	1.2
YTD av	verage	0.6	0.6	0.5	0.5	0.7

Table 7 Deposited dust monitoring results

Monitoring results indicate that for the period from 5 April 2023 to 4 May 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 April 2023, and a progressive annual average are shown in Table 8.

Figure 1 illustrates the year-to-date results for HVAS monitoring.

Run Date	HVAS TSP (µg/m³)	HVAS PM10 (μg/m³)	
5/04/2023	14	11	
11/04/2023	16	9	
17/04/2023	14	8	
23/04/2023	11	6	
29/04/2023	21	10	
24hr Average Criteria ¹	N/A	50	
Annual Average Criteria ¹	90	30	
Progressive Annual Average ²	19.2	11.6	

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

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

^{2.} The progressive annual average is from 01/01/2023 to 29/04/2023, this is not a measure of compliance.

All HVAS monitoring results for April 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).

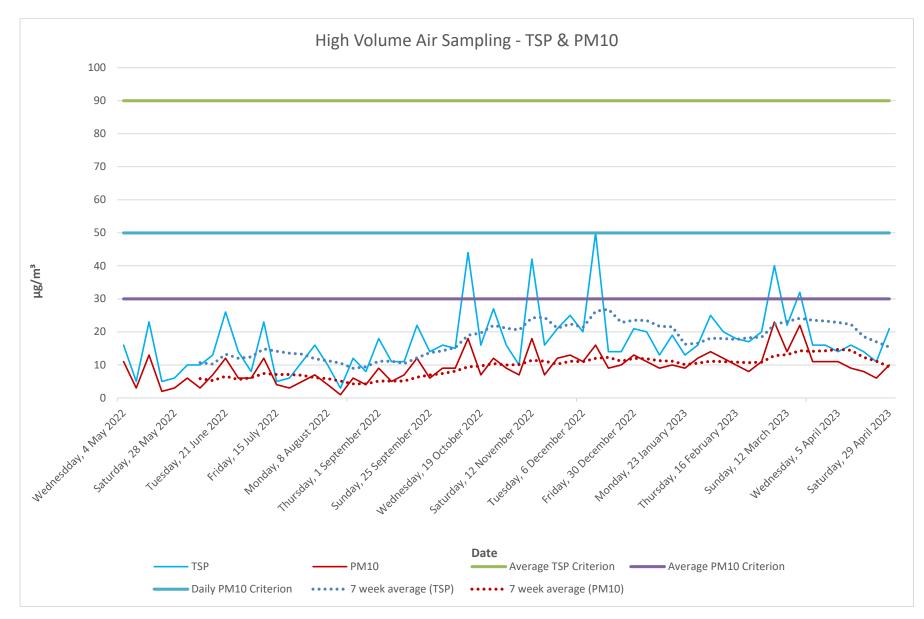


Figure 1 HVAS Sampling Long-term Trends

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
	115	J	over 12 months

There was one blast conducted in April 2023, see Table 10 for monitoring results.

Table 10 Blast monitoring results

Date	Date Time		Overpressure (dB(L))	Vibration (mm/s)
Wednesday, 19 April 2023	12:33pm	RL 128	111	0.41

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)	Applicable 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 Location		Frequency	Criteria
Attended noise	A, B, F, G, H	Quarterly	Refer to Table 11
monitoring	Α, Β, Γ, Θ, Π	Quarterly	

4.1 ATTENDED MONITORING

The most recent results for attended monitoring, undertaken 19 April and 24 April 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, April 2023)

Location	Start Date and Time (Period)	Wind		Stability Class Limits apply? ¹	ss Limits apply? ¹ Limit, dB Site level, dB ²		Limit, dB		Exceedan	ce, dB	
		Speed m/s	Direction ⁴			L _{Aeq,15minute}	L _{Amax}	L _{Aeq,15minute}	L _{Amax}	L _{Aeq,15minute}	L _{Amax}
Н	19/04/2023 15:35 (D)	2.4	136	А	Y	44	N/A	IA	N/A	No	N/A
G	19/04/2023 15:54 (D)	2.0	128	A	Y	43	N/A	IA	N/A	No	N/A
F	19/04/2023 16:20 (D)	1.7	131	A	Y	40	N/A	IA	N/A	No	N/A
В	19/04/2023 16:54 (D)	0.9	137	А	Y	40	N/A	IA	N/A	No	N/A
A	19/04/2023 17:15 (D)	1.2	128	А	Y	42	N/A	IA	N/A	No	N/A
Н	19/04/2023 18:00 (E)	0.7	130	F	Y	46	N/A	IA	N/A	No	N/A
G	19/04/2023 18:17 (E)	0.8	136	F	Y	39	N/A	IA	N/A	No	N/A
F	19/04/2023 18:42 (E)	0.9	135	F	Y	35	N/A	IA	N/A	No	N/A
В	19/04/2023 19:02 (E)	0.9	141	F	Y	40	N/A	IA	N/A	No	N/A
A	19/04/2023 19:19 (E)	1.0	141	E	Y	40	N/A	IA	N/A	No	N/A

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Location Start Date and Time (Period)			ind	Stability Class Limits apply? 1	ability Class Limits apply? 1 Limit, dB		Site level, dB ²		Exceedance, dB		
		Speed m/s	Direction ⁴			L _{Aeq,15} minute	L _{Amax}	L _{Aeq,15} minute	L _{Amax}	L _{Aeq,15} minute	L _{Amax}
н	24/04/2023 5:06 (MS)	0.4	333	F	Y	35	52	IA	IA	No	No
G	24/04/2023 5:24 (MS)	0.4	322	F	Y	35	52	IA	IA	No	No
F	24/04/2023 6:06 (MS)	0.1	336	F	Y	35	52	IA	IA	No	No
В	24/0 <mark>4/2</mark> 023 6:25 (MS)	0.3	321	F	Y	35	52	IA	IA	No	No
A	24/04/2023 6:43 (MS)	0.1	331	F	Y	35	52	IA	IA	No	No

5 SURFACE WATER MONITORING

5.1 MONTHLY SURFACE WATER MONITORING PROGRAM

Monthly water monitoring was undertaken on 12 April 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

Parameter	Units of measure	EPL 20611 concentration limit during discharge	Dam 1	Dam 2	Dam 3	SW 2	SW 3
Oil and grease	Milligrams per litre	5 and/or non-visible	<5	<5	<5	<5	<5
рН	рН	6.5 – 8.5	6.99	6.71	7.56	7.05	6.77
Total suspended solids	Milligrams per litre	40	706	161	11	638	616
		ANZECC Guidelines ¹					
Conductivity	μS/cm	125 – 2200	424	393	582	431	328
Total dissolved solids	mg/L		1688	294	368	1424	1332
Total phosphorus	mg/L	0.025	1.15	0.14	0.03	0.8	0.06
Ammonia	mg/L	0.2	<0.01	0.04	0.01	<0.01	0.02
Nitrogen (Nitrate)	mg/L	0.350	7.92	0.39	<0.01	4.97	3.66
Total hardness (as CaCO3)	mg/L		13	90	121	28	20
Arsenic	mg/L	0.024	0.008	0.001	<0.001	0.006	0.005
Cadmium	mg/L	0.0002	0.0002	<0.0001	<0.0001	0.0001	0.0001
Calcium	mg/L		2	3	37	3	3
Chromium	mg/L	0.001	0.049	0.005	<0.001	0.036	0.034
Copper	mg/L	0.0014	0.076	0.007	0.001	0.054	0.052
Lead	mg/L	0.0034	0.038	0.004	<0.001	0.028	0.035
Magnesium	mg/L		2	5	7	5	3
Manganese	mg/L	1.9	1.56	0.168	0.032	1.04	1.09
Nickel	mg/L	0.011	0.038	0.004	<0.001	0.028	0.029

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Potassium	mg/L		1	2	1	2	1	
Sodium	mg/L		62	67	54	67	54	
Vanadium	mg/L		0.18	0.02	<0.01	0.13	0.12	
Zinc	mg/L	0.0312	0.284	0.035	<0.005	0.228	0.23	

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 conce	ntration limits
-------------------------------------	-----------------

Pollutant	Units of Measure	Concentration Limit
Oil and Grease	Visible	5 &/or none visible
рН	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 April (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 one day of discharge during the month of April (see Table 17).

Table 17 Discharge monitoring – LDP2

Date	рН		Oil and grease	Controlled	
Thursday, 20 April 2023	7	9	Nonvisible	Yes	

5.2.3 Dam 3 (LDP3)

Dam 3 had one day of discharge during the month of April (see Table 18).

Table 18 Discharge monitoring – LDP3

Date pH		Total suspended solids	Oil and grease	Controlled	
Thursday, 20 April 2023	8	20	Nonvisible	Yes	

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 April 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 April 2023.

Monthly Weather Summary



Site: Karuah Quarry

Month	:	April 2023											
		Temperature @ 2m			Temperature @ 10m			Winds			Solar Radiation		
1000000000	Day	Max ¹	Min ²	Ave ¹ °C	Max ¹	Min ² °C	Ave1	Max Gust ¹ Ave Speed		Dir Ave ¹	Max ¹	Ave1	Rain ²
		°C	°C		°C		°C	km/h	the second se	deg	W/m ²	W/m ²	mm
1	Sat	26.1	10.1	17.4	23.1	11.4	17.0	31.9	4.9	220	813.2	183.8	
2	Sun	25.0	12.0	17.8	22.3	12.6	17.5	23.7	3.2	201	934.2	137.6	40.0
3	Mon	23.5	14.5	18.1	22.2	14.5	17.9	16.6	2.6	173	715.8	113.5	5.6
4	Tue	23.7	15.9	18.2	22.2	15.8	18.0	30.8	4.8	199	1029.2	120.5	7.2
5	Wed	24.5	15.8	18.0	23.1	16.0	18.0	28.4	3.6	218	852.4	122.2	13.0
6	Thu	23.7	13.9	16.7	22.4	14.4	17.2	21.3	2.5	170	765.8	104.9	1.4
7	Fri	23.2	13.9	17.6	22.7	14.6	18.5	37.9	4.1	234	668.3	97.0	8.8
8	Sat	24.6	13.3	19.4	23.4	14.8	19.5	59.2	11.6	287	744.9	181.5	8.0
9	Sun	22.8	14.9	16.1	21.8	15.5	16.5	52.1	7.6	278	800.7	181.6	
10	Mon	21.4	8.6	13.7	20.0	11.3	14.4	26.0	4.6	248	834.1	165.0	
11	Tue	22.6	6.3	15.6	21.0	7.6	15.5	31.9	3.8	242	658.3	172.4	
12	Wed	23.9	9.5	15.8	22.3	10.0	15.9	30.8	4.2	238	925.0	109.6	
13	Thu	22.9	12.5	16.9	21.2	12.8	16.9	39.0	3.6	197	897.4	105.8	5.6
14	Fri	23.6	15.1	15.8	21.7	15.4	15.9	27.2	3.4	217	920.7	146.4	20.6
15	Sat	25.6	10.6	19.5	24.2	11.3	19.7	18.9	3.8	193	633.3	153.4	3.8
16	Sun	23.5	16.0	17.6	23.6	16.2	18.5	21.3	3.1	222	475.8	66.5	0.2
17	Mon	23.6	8.9	15.1	21.5	10.0	15.3	20.1	3.2	225	890.7	97.8	
18	Tue	24.0	10.1	15.6	21.7	11.1	15.8	23.7	3.1	172	835.8	153.0	
19	Wed	24.9	11.0	17.4	24.1	11.5	17.6	18.9	3.0	188	773.3	134.9	0.2
20	Thu	18.8	12.9	16.7	19.6	13.5	17.2	35.5	4.9	180	192.5	33.9	
21	Fri	23.4	13.4	16.6	21.4	13.6	16.6	26.0	3.8	213	797.4	122.8	28.6
22	Sat	24.2	12.0	16.2	21.8	12.6	16.3	24.9	2.6	205	898.3	120.5	0.4
23	Sun	24.1	11.4	17.0	22.3	11.9	17.3	28.4	4.0	204	816.6	122.2	1.4
24	Mon	24.1	12.5	17.4	22.0	13.2	17.4	28.4	4.2	207	859.9	132.3	0.2
25	Tue	24.2	12.1	15.0	22.6	12.3	15.3	17.8	2.3	199	769.9	107.7	10000
26	Wed	25.0	10.0	16.4	23.0	10.7	16.8	21.3	2.6	171	847.4	132.8	
27	Thu	25.2	11.7	17.8	23.7	12.4	18.3	21.3	3.4	132	694.1	148.1	
28	Fri	27.4	12.5	19.0	26.1	13.4	19.5	18.9	3.2	159	574.9	147.2	
29	Sat	25.3	13.0	18.0	23.4	14.1	18.0	18.9	3.6	224	689.2	101.9	
30	Sun	22.1	13.2	15.1	20.8	13.8	15.8	28.4	4.3	270	749.9	135.1	8.4
Ave or	Total	23.9	12.3	16.9	22,4	12.9	17.1	27.7	4.0	209.5	768.6	128.4	153.4
Hi		27.4	16.0	19.5	26.1	16.2	19.7	59.2	11.6	/	1029.2	183.8	40.0
Lo		18.8	6.3	13.7	19.6	7.6	14.4	16.6	2.3		192.5	33.9	/
			hour period from					1.7.10.00	10000		Contraction of	ays >1mm:	13

Notes: 1. Values are for the 24 hour period from 9am to 9am next day.

No. rain days >1mm: 13

2. Values are for the 24 hours to 9am.

Figure 2 Weather Summary - April 2023

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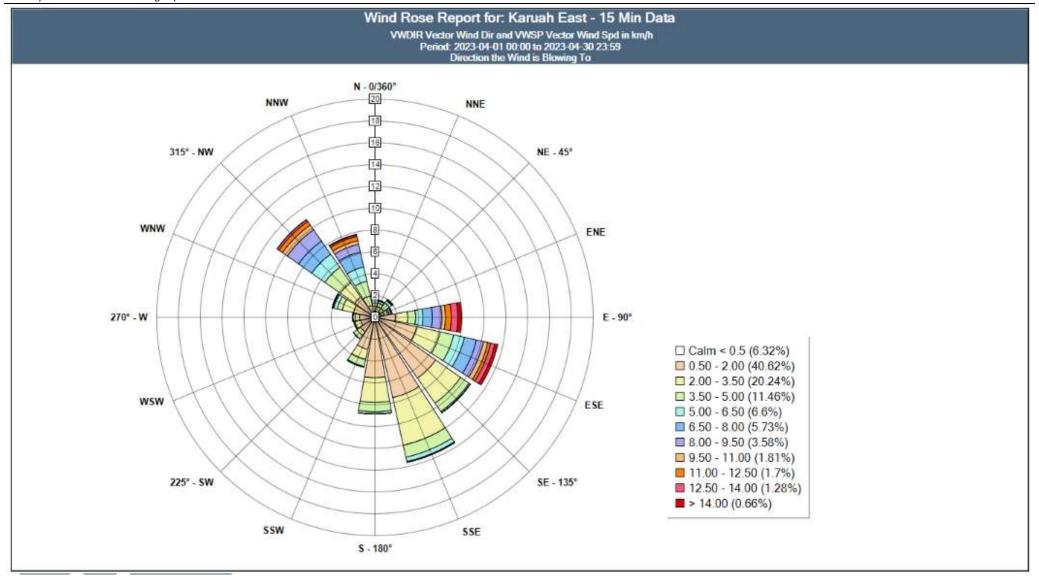


Figure 3 Wind Rose - April 2023

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 <<u>https://hunterquarries.com.au/</u>>.

On 19 March, the first KEQ CCC meeting for 2023 was held, below are the key details:

- A site inspection was undertaken with three KEQPL representatives and five 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 September 2023.

7.2 **PRODUCTION**

For the month of April 61,862 tonnes of various quarry products were produced.

7.3 NON-COMPLIANCE

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

Table 19 Non-compliance Register

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

7.4 COMPLAINTS

There were nil complaints received during April 2023 (see Table 20).

Table 20 Complaints Register

Date	Nature of Complaint	Action		
April 2023	Nil complaints received	Nil action required		

Appendix 1 – Monitoring Locations

