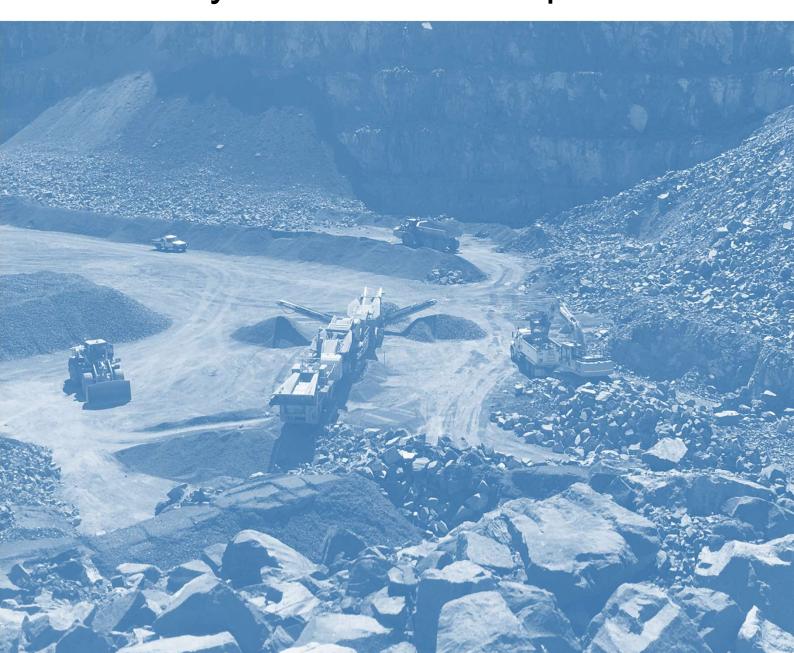


Karuah Hard Rock Quarry

# Community Consultation Report 2021/1



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Αŗ	pendi	ix 1	EPL11569 Monitoring Locations
t	he Cor	nsent	DA 265-10-2004
t	he De	partment	Department of Planning, Industry and Environment
E	PA		NSW Environmental Protection Authority
E	PL		Environmental Protection Licence 11569
F	IQPL		Hunter Quarries Proprietary Limited
Ν	лсс		MidCoast Council
t	he Qua	arry	Karuah Hard Rock Quarry
t	he rep	porting period	1 January 2021 to 30 June 2021

#### 1 Introduction

#### 1.1 BACKGROUND

The MidCoast Council (MCC) granted conditional Development Consent (*DA* 2650200/#for a hard rock quarry and crushing plant at Karuah on 3 December 1997. Hunter Quarries Pty Limited (HQPL) purchased the site from Mountain Industries in 2002 and has since operated a hard rock quarry at the site, known as Karuah Hard Rock Quarry (the Quarry). The material extracted at the Quarry is andesite, which is a hard, blue rock used for various purposes such as road base material, construction aggregate, aggregate used for concrete batching, drainage works, fill, landscaping and other uses.

Development Consent was granted by the Minister for Infrastructure, Planning and Natural Resources on the 3 June 2005 (ref. DA 265-10-2004), with the approved development including:

- Implementing the remainder of the approved Stage 1 quarry operation;
- Extending the quarry operations into the Stage 2 area;
- Upgrading and using existing infrastructure on site;
- · Rehabilitating the site by re-contouring and revegetating exposed surfaces; and
- Producing up to 500,000 tonnes of product a year over the next 22 years.

The Consent approval permits operation until 3 June 2027. It should be noted that the current lease agreement between HQPL and the owner of Lot 11 expires on 6 May 2024. Extraction of material from Lot 11 will cease and rehabilitation commence in early 2021 and scheduled to be completed by 6 May 2021. This will allow three years of rehabilitation monitoring prior to the Lot 11 lease agreement ceasing on 6 May 2024. Lot 21 will continue to be operational until the end of the Consent. A rehabilitation program for Lot 21 will be implemented after this date. For more information regarding rehabilitation schedules refer to the Rehabilitation and Closure Plan and subsequent Annual Environmental Management Review (AEMRs).

A summary of the environmental monitoring data for the reporting period 1 January 2021 to 30 June 2021 is covered in this report.

A summary of the licence information is provided in the tables in the report.

#### 1.2 COMMUNITY CONSULTATION REPORT

In accordance with Schedule &ondition &of the Consent, HQPL sought expressions of interest from the community to serve as members of a Community Consultative Committee (CCC) in 2007 and again in 2011. The minimum of two expressions of interest were not received, therefore a CCC was not able to be established. This Community Consulta Report has therefore been prepared in accordance with the Communication Strategy lined in the Karuah Hard Rock Quarry, Environmental Management Strategy ugust 2020)

The Community Consultation Reportarises HQPL environmental and community management plans, monitoring results, audit reports and any environmental incidents or complaints that have occurred during the reporting period. Once prepared, the Community Consultation Report is made available to MCC and nearby residents a t HQPL' shtpw/e/hbursterquerries.com. Upon request, a hard copy can be mailed to community members, simply call HQPL Environmental Officer on 0447 044 646.

# 2 AIR QUALITY MONITORING

HQPL ensure that all practical mitigation measures are used to prevent and minimise particulate matter emissions generated by the Quarry operation, so emissions do not exceed the criteria in Tables 7 to 9 of the Consent at any residence on any privately-owned land.

Air quality monitoring is undertaken in accordance with the approved *Environmental Monitoring Program (2014)* 

#### 2.1 Deposited Dust Monitoring

Deposited dust monitoring results for the reporting period are displayed in **Table 1**. The results are complaint with the criteria of the Consent.

Table 1 Deposited dust monitoring results

Date	DDG1	DDG2	DDG3	DDG4
04/01/2021	0.3	0.5	0.1	0.4
04/02/2021	1.5	0.9	0.7	0.3
05/03/2021	0.4	0.4	0.7	0.2
06/04/2021	0.8	1.3	0.5	0.7
06/05/2021	0.7	1.4	2.2	3.7
03/06/2021	0.3	0.3	0.3	0.4
Rolling	_			
Annual	0.7	0.8	0.8	1.0
Average				
Annual				
Average	4.0	4.0	4.0	4.0
Criteria				

#### 2.2 HIGH VOLUME AIR SAMPLING

High volume air sampling monitoring results for the reporting period are displayed in **Table 2**. The results are complaint with the criteria of the Consent.

Table 2 High volume air sampling results

Date	TSP (µg/m³)	PM10 (μg/m³)	Comment
03/01/2021	10	10	
09/01/2021	8	8	
15/01/2021	35	23	
21/01/2021	22	11	
27/01/2021	16	10	
02/02/2021	17	11	
08/02/2021	26	16	
14/02/2021	26	15	
20/02/2021	10	10	
26/02/2021	31	20	
04/03/2021	15	9	
10/03/2021	18	14	
16/03/2021	10	6	
22/03/2021	9	13	
28/03/2021	9	9	
03/04/2021	13	4	
09/04/2021	20	12	
15/04/2021	28	16	
21/04/2021	16	8	
27/04/2021	19	12	
03/05/2021	16	10	
08/05/2021	14	10	
15/05/2021	12	6	
21/05/2021	11	7	
27/05/2021	26	14	
02/06/2021	17	10	
09/06/2021	30	11	
14/06/2021	10	8	
20/06/2021	10	5	
26/06/2021	6	3	
<sup>1</sup> 24hr Max Criteria	N/A	50	
Year-to-date Average	17	11	
<sup>1</sup> Annual Average	90	30	
Criteria			

# 3 BLAST MONITORING

HQPL conducts blasts in accordance with the approved *Blast Management Pt*and conditions stipulated in the Consent and the EPL to avoid harm and minimise nuisance to environment and the surrounding community.

Blast monitoring results for the reporting period are displayed in **Table 3**. The results are complaint with the criteria of the Consent and the EPL.

Table 3 Blast monitoring results

Date & Time	Overpressure (dB(L))	Vibration (mm/s)
Friday, 26 January 2021 11:50 AM	110.4	3.67
Thursday, 27 May 2021 11:59 AM	106.9	1.76

Not triggered = n/t

# 4 Noise Monitoring

HQPL uses all practical mitigation measures to ensure that the operational noise generated by the Quarry does not exceed the criteria stipulated in the Consent and the EPL.

Noise monitoring is undertaken in accordance with the approved Environmental Monitoring Program

#### 4.1 ATTENDED MONITORING

Attended noise monitoring was undertaken during May, the results are displayed in Table 4.

The results detail all noise sources, such as traffic, insects, birds, Karuah East Quarry operation, and the Quarry operation. The results are complaint with the criteria of the Consent and the EPL.

Table 4 Attended noise monitoring results - April 2021

Location	Date Start Time Weather	LAMAX	LA1	LA10	LA90	LAEQ	Description of noise and typical maximum noise levels (dBA)
NM1	06/05/2021 2:30 PM W = 20 kph	91	72	67	59	65	Pacific Highway 60 -65  Karuah Quarry inaudible
NM2	06/05/2021 3:05 PM W = 20 kph	87	71	67	60	64	Pacific Highway 55-65 Birds 40-45 <b>Karuah Quarry inaudible</b>

#### 4.2 UNATTENDED NOISE MONITORING

Unattended noise monitoring was undertaken during April at monitoring locations NM1 and NM2, the results are displayed in **Table 5** and **Table 6** respectively. The unattended noise monitoring results are complaint with the criteria of the Consent and the EPL.

Table 5 Unattended noise monitoring results - NM1

INP Period	L <sub>A1</sub>	LA10	LA90	LAEQ
Day	73	69	56	63
Evening	72	68	59	63
Night	73	70	60	61

Table 6 Unattended noise monitoring results - NM2

INP Period	L <sub>A1</sub>	LA10	LA90	LAEQ
Day	72	67	53	65
Evening	74	69	59	64
Night	74	70	59	64

## 5 WATER MONITORING

Water monitoring is undertaken in accordance with the approved *SiteWater Management Plan* (2016)This includes biannual monitoring of surface water and daily monitoring of water during discharge events from licenced the discharge point.

#### 5.1 SURFACE WATER

Surface water monitoring is to be undertaken biannually and compared against baseline data to ensure that ecological health downstream of the discharge location are not compromised due to the Quarry operation.

During the reporting period, surface water monitoring was undertaken on 25 May 2021, see **Table 7** for monitoring results.

Table 7 Surface water monitoring results - Sediment Dam 2

Date	Temp (°C)	pH (pH Units)	EC (μS/cm)	Turbidity (NTU)	TSS (mg/L)	Oil & Grease (mg/L)	Total N (mg/L)	Total P (mg/L)
Tuesday, 25 May 2021	17.8	7.3	220	500	199	<5	0.3	0.1

#### 5.2 DISCHARGE COMPLIANCE

Water quality monitoring is undertaken daily during discharge to demonstrate compliance with pollutants specified in the EPL.

#### 5.2.1 Sediment Dam 2

During the reporting period, there were a total of 6 days of uncontrolled discharge from Sediment Dam 2, see **Table 8** for monitoring results.

Table 8 Discharge monitoring results – Sediment Dam 2

Date	Temp	рН	EC	Turbidity	TSS	Oil and Grease
Thursday, 18 March 2021	22.8	7.4	226	220	138	<5
Friday, 19 March 2021	21.2	7.2	241	280	246	<5
Saturday, 20 March 2021	22.9	7.1	199	445	328	<5
Sunday, 21 March 2021	22.6	7.1	195	610	436	<5
Monday, 22 March 2021	20.7	7.3	164	490	92	<5
Tuesday, 23 March 2021	23	7	183	570	307	<5

# 6 Production

Monthly monitoring of sales across the reporting period is detailed in **Table 9**, showing that there were a total of 2665 truck movements taking 85,006 tonnes of material from the Quarry to various customers across New South Wales.

Table 9 Monthly production data

Date	Truck Movements	Material (tonnes)
January 2021	37	5358
February 2021	632	5056
March 2021	455	9100.78
April 2021	519	24161.6
May 2021	691	8082
June 2021	331	15794
Total	2665	85,006

### 7 REPORTING

#### 7.1 INCIDENTS

During the reporting period, HQPL did not have any environmental incidents.

#### 7.2 Non-Compliance

During the reporting period, HQPL had once instance of reportable non-compliance:

The uncontrolled discharge from LDP001 was caused by extreme rainfall experienced in March 2021, where the Quarry received 606.6mm. The *Pollution Incident Response Managemental Plan* enacted, this involved:

- Immediately contacting appropriate regulatory authorities (DPIE, EPA).
- Notifying nearby residents of incident.
- Monitoring water quality while discharging.
- Prepare and submit incident report to ARAs.

#### 7.3 COMPLAINTS

During the reporting period, HQPL did not receive any complaints.

#### 7.4 TRAINING

HQPL conducts a monthly meeting for all employees to be updated on:

- operational performance.
- company planning and strategy.
- environmental and safety training.

During the reporting period, two key environmental factors were revised with all site workers:

- Waste Management; and
- Pollution Incidence Response.

Due to physical distancing protocol in place for infection control and COVID precaution, scheduling of the monthly meetings was hindered.

#### 7.5 AUDIT REPORTS

An independent environmental audit (IEA) was undertaken and submitted to the Department on 31

October 2019. The IEA Report prepared by EMM Consulting Pty Limited) and the Response to Auditors

Recommendations repared by HQPL) can be found on HQPL

#### 7.6 MANAGEMENT PLANS

During the reporting period, no management plans were revised.

# 8 FEEDBACK

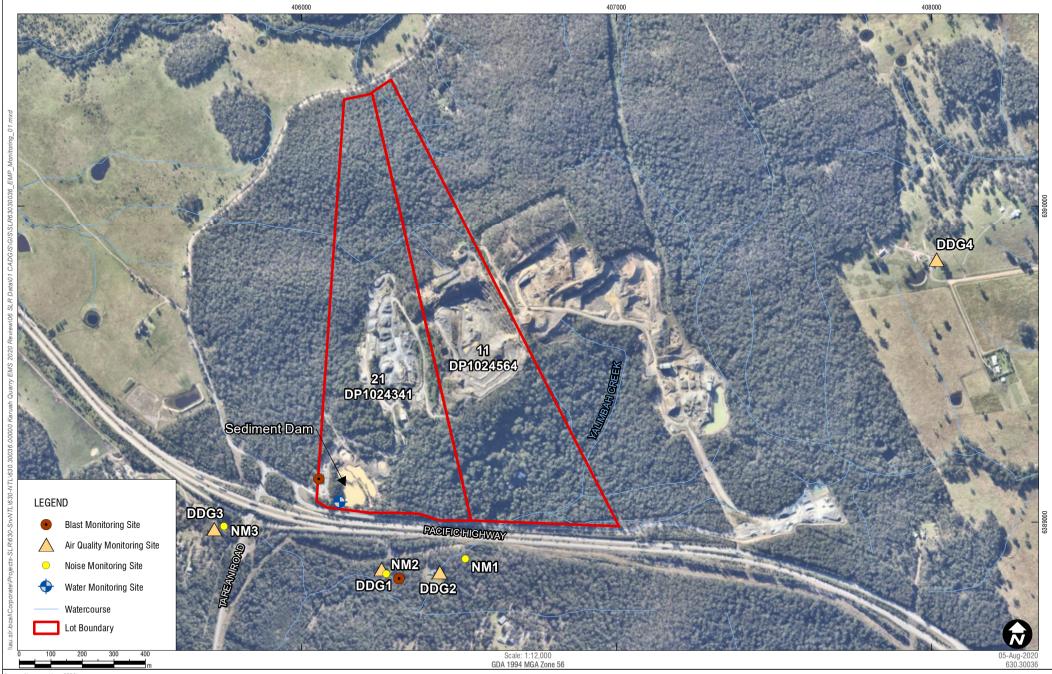
HQPL seeks and appreciates any feedback from community regarding the operation of the Quarry and reporting of environmental and community matters.

 ${\it HQPL}$  did not receive any comment or feedback for the previous reporting period  ${\it Community}$   ${\it Consultation Report}$ 

Date	Feedback/Comment	HQPL Response	
_	-	-	

If you have any questions or would like to provide comment or feedback on information provided in this *Community Consultat* portplease call HQPL Environmental Officer on 0447 044 646.

# Appendix 1 – EPL 11569 Monitoring Locations



Source: Nearmap (June 2020)



Karuah Hard Rock Quarry Environmental Monitoring Locations