Coraki Quarry
2021 Annual Report

Prepared for: KIS Quarries Pty Ltd

Date: March 2022

File Reference: 2513 300 019

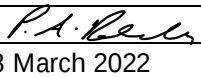
Name of operation	Coraki Quarry Project
Name of operator	KIS Quarries Pty Ltd
Development consent / project approval #	SSD 7036 (Mod 3)
Holder of development consent / project approval	KIS Quarries Pty Ltd
Licenced Area (property description)	Lot 401 DP633427, Lots 402 and 403 DP 802985; Lot 408 DP 1166287; Lot A DP397946; Lot A DP389418; Lot 3 DP701197; Lot 2 DP954593; Lot 1 DP954592; Lot 1 DP310756; Lot 1 DP1165893; and Lot 1 DP1225621
Holder of Environmental Protection License (EPL)	KIS Plant Pty Ltd
EPL number and Anniversary Date	EPL 3397 – 28 April
Water licence #	N/A
Name of holder of water licence	N/A
Annual Review start date	1 January 2021
Annual Review end date	31 December 2021

I, Peter Roberts, certify that this audit report is a true and accurate record of the compliance status of Coraki Quarry for the period 1st January 2021 to 31st December 2021 and that I am authorised to make this statement on behalf of KIS Quarries Pty Ltd.

Note.

a) The Annual Review is an 'environmental audit' for the purposes of section 122 B (2) of the Environmental Planning and Assessment Act 1979. Section 122E provides that a person must not include false or misleading information (or provide information for inclusion in) an audit report produced to the Minister in connection with an environmental audit if the person knows that the information is false or misleading in a material respect. The maximum penalty is, in the case of a corporation, $1 million and for an individual, $250,000.

b) The Crimes Act 1900 contains other offences relating to false and misleading information: section 192G (Intention to defraud by false or misleading statement – maximum penalty 5 years imprisonment); sections 307A, 307B and 307C (False or misleading applications/information/documents – maximum penalty 2 years imprisonment or $22,000, or both).

Name of authorised reporting officer	Peter Roberts
Title of authorised reporting officer	Director
Signature of authorised reporting officer	
Date	28 March 2022

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1 Statement of Compliance

This annual review has been conducted to satisfy Schedule 5, Condition 9 of the Development Consent (DC) SSD_7036, whereby the annual environmental performance of the project is reviewed. The review period for this report is 1st January 2021 to 31 December 2021. A statement of compliance for the project is provided below in Table 1. A summary of any non-compliances for the project is provided below in Table 2.

Table 1 – Statement of Compliance

Development Consent	Were all conditions compliance with
Development Consent (DC) SSD 7036 Mod 3	No

Table 2 – Non-Compliances

Condition	Description	Status	Comment	Report section
Sch 3, Con 5C	Quarterly noise compliance	Resolved	June 2021 Quarterly noise monitoring was delayed and reported as a non-compliance. The monitoring was completed in July 2021 with no non-compliances.	4.1

2 Background

2020 Annual Report

The 2020 Annual Report was submitted to DPIE on 29 March 2021. DPIE responded by letter dated 11 May 2021 advising that it satisfied the reporting requirements of the approval but requesting that future reports include a table containing the quarterly noise monitoring data for that annual period. This has been action in Section 8 of this report.

2019 Annual Report

The 2019 Annual Report was submitted to DPIE on 20 March 2020. DPIE responded by letter dated 3 April 2020 requesting additional information be included into the 2019 Annual Report. A revised Annual Review with the additional information was submitted to DPIE on 9 April 2020. DPIE accepted the 2019 Annual Review by letter dated 8 May 2020. Table 3 below outlines the various amendments to that years' annual review.

Table 3 – DPIE Comment on 2019 Annual Report

DPIE Comment
Letter dated 3 April 2020
DPIE reviewed the 2019 Annual Report submitted to DPIE on 12 March 2020 and requested that the following information be amended or provided.
Details of the volumes of the various wastes being managed. Waste volumes (a waste register) were to be included in future Annual Returns as was committed to by Quarry Solutions in its response letter to the then DPE dated 25 May 2018 in response to the 2018 IEA in reference to COA 3.37
Include a heading titled "Independent Audit" and provide details about implementation of the action plan as an outcome of the most recent independent audit (i.e. has everything been implemented as per the action plan); and identify when the next audit is scheduled;
Include a heading "Incidents and Non-compliances" and provide details including the measured noise levels relating to the reported noise non-compliance as are identified in the Departments Annual Review Guideline;
Include in Section 8.1 Complaints, details of the dust complaint reported in the project complaints register for the 31 January 2019;
Update the Coraki Quarry website to comply with Schedule 5, Condition 12 of the Consent, to enable blasting, dust and noise data to be publicly available on its website.

3 Introduction

The Coraki Quarry is a hard rock quarry located at Petersons Quarry Road, Coraki, New South Wales (refer Attachment 1 – Drawings). This reporting year, the quarry was operated by KIS Quarries Pty Ltd. A Development Consent (DC) (number SSD_7036) and Environment Protection Licence (EPL) No. 3397 have been issued for the Coraki and Petersons Quarry. This review has been conducted and prepared in accordance with the NSW Department of Planning and Environments *Annual Review Guideline October 2015* in order to satisfy the requirements of Schedule 5, Condition 9 of the modified Development Consent for the Coraki Quarry Project. Schedule 5, Condition 9 states:

> *Annual Review*
>
> *By the end of March each year, the Applicant shall review the environmental performance of the development to the satisfaction of the Secretary. This review must:*
>
> *(a) describe the development (including rehabilitation) that was carried out in the previous calendar year, and the development that is proposed to be carried out over the current calendar year;*
>
> *(b) include a comprehensive review of the monitoring results and complaints records of the development over the previous calendar year, which includes a comparison of these results against the:*
>
> - *relevant statutory requirements, limits or performance measures/criteria;*
> - *the monitoring results of previous years; and*
> - *the relevant predictions in the documents listed in condition 2(a) of Schedule 2;*
>
> *(c) identify any noncompliance over the last year, and describe what actions were (or are being) taken to ensure compliance;*
>
> *(d) identify any trends in the monitoring data over the life of the development;*
>
> *(e) identify any discrepancies between the predicted and actual impacts of the development, and analyse the potential cause of any significant discrepancies; and*
>
> *(f) describe what measures will be implemented over the current calendar year to improve the environmental performance of the development.*
>
> *The Applicant must ensure that copies of the Annual Review are submitted to Council and are available to the Community Consultative Committee (see condition 6 of Schedule 5) and any interested person upon request.*

3.1 Key Site Personnel

The details of key site personnel that have been involved in the management of the quarry operations over the reporting period are provided as follows;

Peter Roberts – Director, KIS Quarries, M: 0488 074 367, T: 02 6683 2099, E: peter@kisquarries.com.au

4 Compliance Summary

A review against the conditions of approval has been undertaken (refer Attachment 2 – Audit Checklist). The compliance status of each of the conditions of Development Consent were determined using the following descriptions:

Status	Description
Compliant	Sufficient evidence is available to verify that all elements of the consent condition have been satisfied during the reporting period.
Non-compliant	One or more specific elements of the consent condition have not been met during the reporting period.
Not triggered	A consent condition has not been triggered within the reporting period therefore no data is available for review and reporting.

4.1 Non-compliance

One (1) non-compliance occurred during the reporting period.

Schedule 3, Condition 5c of the SSD 7036 requires the applicant (ie KIS) to regularly assess noise monitoring which includes monitoring at least every three months. The noise monitoring was to occur in June 2021. However, the noise monitoring was delayed due to weather conditions and the COVID19 Lockdown preventing MWA Environmental from travelling from Queensland into Northern NSW.

Consultation with the Department identified that the Department held no specific concerns about the delay of the noise monitoring but that it should be identified as a non-compliance and notified in accordance with Schedule 7, Condition 7A of the SSD 7036 (refer Attachment 3 – Delay of June 2021 Noise Monitoring). The notification was uploaded to the NSW Major Projects Portal on 1 July 2021. The noise monitoring was completed in July 2021 with no non-compliances.

5 Approvals

The following approvals are those held for the Coraki Quarry during the 2020 calendar year.

- Development Consent SSD 7036 (modification 3) issued by the New South Wales Minister for Planning on 13th May 2019.
- Environmental Protection Licence (EPL) No. 3397.

6 Operations Summary

The site is approved to undertake extraction, processing and storage of 1,000,000 Tonnes (t) per annum in any calendar year. A production summary is provided in Table 5 below. The activities which occurred on site during the reporting period are consistent with the approved activities. Production data submitted to Department Planning Industry & Environment, Resources & Geoscience (DPIE resources) for the 2020 – 2021 reporting period is attached for reference (refer *Attachment 4 – DGR Production Data*).

Table 4 – Production Summary

Material	Limit	2017	2018	2019	2020	2021
Quarrying products	1,000,000t	589,874t	995,438t	990,642t	229,558t	19,496t

6.1 Operational Requirements

6.1.1 Hours of Operation

Schedule 3 (Noise) of the development consent, outlines the permitted operating hours and extended operating hours. Written agreements from affected landowners are held permitting the extended hours of operation which are, Monday to Saturday 6am to 7pm and activities are not permitted on Sundays and Public Holidays.

6.1.2 Truck Movements

Permitted truck movements are outlined in Condition 9 Schedule 2 of the development consent which states that no more than 31 laden trucks per hour or up to 231 laden trucks per day (Mon- Fri) and 105 laden trucks per day (Saturday) are permitted to be dispatched. The weighbridge software currently used, allows up to 31 tucks per hour to be dispatched. If this limit is reached in a given hour or day, the weighbridge will stop recording data until the next hour commences and therefore the truck cannot leave the quarry site once the limits are reached.

6.2 Forecast Operations

Activities to be undertaken in the next reporting period will be similar to those from last year's annual report and will include the following:

Extractive activities such as:

- drilling and blasting exposed underlying rock to a manageable size or extraction of less competent or fractured rock using mechanical equipment (e.g. hydraulic excavator or bulldozer with ripper attachment);
- loading won material from the extraction face by front end loader or excavator into rear dump trucks for cartage to the processing plant;
- processing of won material through the processing plant;

- stockpiling of material in overhead storage bins/silos for either blending to produce road base using a pugmill or stockpiled on ground in the stockpile area by either front end load, read dump truck or plant;
- loading of products into road registered trucks using front-end loader for transport off site.

Maintenance of vegetated earth batters (acoustic) including weed management. Visual inspections (including after rain events) will be conducted by the Quarry Manager on a weekly basis during the warmer months and monthly during colder months. The condition of the batters will be assessed and where necessary, weed removal, weed spraying, grass trimming and or replanting of areas requiring additional vegetation will be undertaken. Any maintenance works will be recorded in the next reporting period. Local contractor engaged to spray weeds approximately 4 times last year.

Vehicles and equipment typically used on site include but are not limited to; excavators, front end loaders, rear dump trucks, water cart, screening plant, crushing plants, blending plants, pug mill, drill rigs, body trucks, light vehicles and road registered trucks, subcontractor delivery and service trucks.

The development consent requires the Coraki Quarry to cease operations in 2023. KIS Quarries had progressed a development application for the Petersons Quarry which would see the Petersons Quarry expanded to encompass the existing disturbed areas of the Coraki Quarry and take on the associated rehabilitation obligations. The development application for the Petersons Quarry triggers designated development and integrated development. KIS Quarries anticipates lodgement of the development application via the NSW Planning Portal to Richmond Valley Council in Mid 2022.

7 Actions required by previous Annual Report

Refer to Table 5 – Actions required by previous annual report.

Table 5 – Actions required by previous annual report

Action from previous Annual Review	Action taken by operator
Complete the Independent Environmental Audit (IEA)	Completed. Sighted IEA dated May 2021 and DPIE acknowledgment letter dated 6 July 2021.
Complete the Independent Traffic Audit (ITA)	Completed. Sighted ITA dated May 2021 and DPIE acknowledgement letter dated 29 July 2021.
Review strategies plans and programs within 3 months of the Annual Review submission (ie before June 2020).	Completed. Sighted review completed on 10 May 2021
Review strategies plans and programs within 3 months of the IEA and ITA	Completed. Sighted review completed on 10 June 2021.
Review strategies plans and programs in response to any incident as required by the development consent.	Completed. Sighted review completed 1 July 2021 following notification of non-compliance relating to delay of July noise monitoring.
Continue toolbox talks to refresh staff understanding of the approval requirements.	Completed. KIS Quarries confirmed this was being incorporated into toolbox talks.

8 Environmental Performance

8.1 Water Quality

8.1.1 EIS Prediction

A surface water assessment was undertaken during the EIS process to determine potential impacts to Seelems Creek and Richmond River as a result of flow from the site. The assessment considered the following physio-chemical indicators and numerical criteria (trigger values) from the New South Wales Water Quality and River Flow Objectives (OEH 2015), for uncontrolled streams within the Richmond River Catchment. These values were adopted and are reflected in Schedule 3, Condition L2.4 of Environmental Protection Licence (EPL) 3397.

Total Nitrogen (N) (mg/L)	Total P (mg/L)	DO (%sat)		Turbidity (NTU)	pH		Conductivity (ms/cm)
		Lower	Upper		Lower	Upper	
350	25	85	110	6-50	6.5	8.5	125-2200

Water quality testing undertaken on site indicated that the dissolved oxygen (DO), turbidity and pH indicators were not in accordance with the prescribed trigger values stated above and therefore, a recommendation was made for surface water from the quarry to be captured and treated before discharging from the site.

As a result, a surface water management strategy was prepared and outlined a system of dirty water collection drains that convey surface water runoff to respective sedimentation basins. The sedimentation basins were sized in accordance with Managing Urban Stormwater Soils and Construction: Volume 1 (Blue Book) and Volume 2E (Mines & Quarries). The sedimentation basins have been sized to capture the 90th percentile 5 day rainfall event for their respective catchments.

Groundwater assessments were also conducted and determined that it is unlikely the site will encounter or impact groundwater. Surface water monitoring in accordance with the anticipated requirements of the EPL, will indicate any potential for impact through changes to water quality results.

8.1.2 Actual

A Water Management Plan (WMP) has been prepared to satisfy the requirements of Schedule 3, Conditions 21 of the Development Consent. The WMP provides information required to demonstrate that activities conducted at the quarry will be in accordance with the relevant conditions of Development Consent and EPL 3397. No controlled water releases pursuant to the EPL conditions have occurred since the use commenced under the Development Consent. Groundwater has not been intersected during the extraction activities to date. Therefore, environmental performance and comparison of EIS predictions against actuals cannot be undertaken during this reporting period.

8.1.3 Comparison with Previous Years Data / Trends

Given that no controlled water discharges pursuant to the EPL have occurred during the reporting period a comparison cannot be drawn with previous years.

8.2 Noise

8.2.1 EIS Prediction

As part of the Environmental Impact Statement (EIS) for the now approved Coraki Quarry, a noise assessment (including noise modelling at sensitive receptors) of the potential noise impacts that may occur was conducted. The relevant noise criteria for the assessment of noise impacts was taken from the NSW Industrial Noise Policy which are established by means of a comparison between a 'Rating Background Level ("RBL") plus 5 dB(A)' 'Intrusiveness Criterion' and 'Amenity Criteria' levels, with the lower level being adopted as the basis for deriving project specific noise levels. Noise datalogger measurements determined that RBLs measured at Noise Datalogger Locations 1 and 2 were 30 dB(A) for the 7am to 6pm period. For the early morning 6am to 7am and early evening 6pm to 7pm periods the minimum RBL of 30 dB(A) was adopted for assessment of intrusive noise criteria in accordance with the NSW Industrial Noise Policy. This is consistent with the 7am to 6pm RBL. On this basis, the relevant 'Intrusiveness Criterion' level for assessment of noise from the proposed quarrying activities to be L_{Aeq} 35 dB(A). This criterion was adopted during the EIS approval process and is reflected in Schedule 3, Condition 4, Table 3 of the Development Consent.

Table 3: Noise criteria dB(A)

Receiver	Day dB(A) ($L_{Aeq(15\ min)}$)	Evening dB(A) ($L_{Aeq(15\ min)}$)	Night dB(A) ($L_{Aeq(15\ min)}$)
All privately-owned residences	35	35	35

Note: Receiver locations are shown on the figure in Appendix 3.

8.2.2 Actual

It is noted that in accordance with the conditions of the consent agreements are held with nearby sensitive receptors for exceedance of the noise criteria. Since the commencement of activities, noise monitoring has been undertaken on a quarterly basis with results for the reporting period shown in Table 6 below. Results have generally been consistent with those determined and predicted during assessments undertaken for the EIS. During the reporting period no non-compliances were identified.

Table 6 – Noise Monitoring Results Summary

Monitoring Event	Compliance Status	Comment
26 March 2021	Noise monitoring was compliant at all residences (noting that the relevant landowner agreements are in place). R7: Limit = 40dBA. Result = <33dBA R1: Limit = 40dBA. Result = <35dBA R4: Limit = 35dBA. Result = <32dBA R6: Limit = 40dBA. Result = <37dBA	No further action required
13 July 2021	Noise monitoring was compliant at all residences (noting that the relevant landowner agreements are in place).	No further action required

Monitoring Event	Compliance Status	Comment
	R7: Limit = 40dBA. Result = <35dBA R1: Limit = 40dBA. Result = <34dBA R4: Limit = 35dBA. Result = <32dBA R6: Limit = 40dBA. Result = <35dBA	
20 September 2021	Noise monitoring was compliant at all residences (noting that the relevant landowner agreements are in place). R7: Limit = 40dBA. Result = <33dBA R1: Limit = 40dBA. Result = <36dBA R4: Limit = 35dBA. Result = <34BA R6: Limit = 40dBA. Result = <33dBA	No further action required
10 December 2021	Noise monitoring was compliant at all residences (noting that the relevant landowner agreements are in place). R7: Limit = NA due to agreement with Mr and Mrs Roberts owners of R7 granted in November 2021. R1: Limit = 40dBA. Result = <39dBA R4: Limit = 35dBA. Result = <35dBA R6: Limit = 40dBA. Result = Below background, not measurable due to wind speed but not at nuisance level.	Wind conditions during the 10 December 2021 compliance noise monitoring were at times above the threshold for valid compliance assessment in accordance with the development consent. In those circumstances the ambient background noise was elevated to the extent that the quarry noise level could not be quantified. Notwithstanding, the quarry noise was below the ambient background noise and was not assessed to be at a nuisance level during the noise monitoring period. It is noted that the past five compliance monitoring assessment dating back to September 2020, since the quarry has been operated by KIS have been compliant with the Development Consent and EPL noise limits. Further noise monitoring is scheduled before 31 March 2021. R7 is now owned by Peter Roberts, Director of KIS. Landowner agreement to exceed the noise criteria was provided in November 2021. No further action required.

8.2.3 Comparison with Previous Years Data / Trends

Since the commencement of noise monitoring in December 2016, non-compliances have occurred from time to time. When such an event occurs, subsequent corrective actions have been carried out to ensure that operations maintain compliance with the required criteria. There were no non-compliance events in 2021 although the December monitoring was at times affected by high wind speeds above the threshold for valid compliance assessment in accordance with the development consent. Notwithstanding, the quarry noise was below the ambient background noise and was not assessed to be at a nuisance level during the noise monitoring period. Further noise monitoring is scheduled before 31 March 2021.

8.3 Blasting

8.3.1 EIS Prediction

An assessment of potential vibration impacts was undertaken during the EIS process to identify recommended blast parameters which should be implemented to control vibration within approved and acceptable levels. The closest properties were identified and the distance measured from the proposed extraction limit boundary to the closest residential property.

The assessment concluded, that blasting activities would not introduce any significant risks or impacts to surrounding properties and that blasting is expected to comply with the anticipated licence requirements and ANZECC guidelines which state, that in relation to airblast overpressure, 100% of blasts must be less than 120 dBL and 95% of the blasts must be less than 115 dB(Lin Peak), which reflects the requirements of AS2187.2-2006. With respect to ground vibration, the maximum level is to be 10mm/s and 95% of blast must be less than 5mm/s.

Table 4: Blasting criteria

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

The recommendations made in the EIS have been adopted and are reflected in Schedule 3, Condition 8, Table 4 of the Development Consent.

8.3.2 Actual

Drill and Blasting is carried out by a contractor for the operator of the quarry. No blasts were undertaken in the Coraki Quarry extraction area for the 2021 calendar year.

The table below outlines the results from blasts that were undertaken in the reporting period. Blasting results have complied with the criteria outlined in Schedule 3, Condition 8, Table 4.

Table 7 – 2021 Blast Monitoring Results Summary

Date	Monitor 1		Monitor 2		Monitor 3	
	Airblast O/P dB (L)	Ground vibration mm/s	Airblast O/P dB (L)	Ground vibration mm/s	Airblast O/P dB (L)	Ground vibration mm/s
Nil	Nil	Nil	Nil	Nil	Nil	Nil

**NT – not triggered.*

8.3.3 Comparison with Previous Years Data / Trends

An annual summary of monitoring conducted in previous years is provided in Table 9 below. Results show that no exceedances have occurred since the commencement of blasting activities.

Table 8 – Blast Monitoring Results Summary

Blasting Results Monitor 1

Year		No. of blasts in year	Min. value	Max. value	100 percentile limit	95 percentile limit
2016	Overpressure	3	<88	115	<120	<115
	Ground Vibration		0.999	2.3	<10	<5
2017	Overpressure	13	NT	114	<120	<115
	Ground Vibration		NT	3.799	<10	<5
2018	Overpressure	14	88	113.1	<120	<115
	Ground Vibration		0.582	1.04	<10	<5
2019	Overpressure	11	< 88	110.5	<120	<115
	Ground Vibration		0.648	1.589	<10	<5
2020	Overpressure	8	NT	115	<120	<115
	Ground Vibration		NT	2.91	<10	<5
2021	Overpressure	Nil				
	Ground Vibration					

NT – *not triggered.*

Blasting Results Monitor 2

Year		No. of blasts in year	Min. value	Max. value	100 percentile limit	95 percentile limit
2016	Overpressure	3	NT	114	<120	<115
	Ground Vibration		NT	1.024	<10	<5
2017	Overpressure	11	NT	113.1	<120	<115
	Ground Vibration		NT	2.331	<10	<5
2018	Overpressure	1	110.2	110.2	<120	<115

	Ground Vibration		0.66	0.66	<10	<5
2019	Overpressure	8	< 88	114.6	<120	<115
	Ground Vibration		0.574	2.30	<10	<5
2020	Overpressure	8	NT	112.6	<120	<115
	Ground Vibration		NT	1.717	<10	<5
2021	Overpressure	Nil				
	Ground Vibration					

NT – not triggered.

Blasting Results Monitor 3

Year		No. of blasts in year	Min. value	Max. value	100 percentile limit	95 percentile limit
2016	Overpressure	3	NT	96.88	<120	<115
	Ground Vibration		NT	0.762	<10	<5
2017	Overpressure	6	NT	112.6	<120	<115
	Ground Vibration		NT	0.914	<10	<5
2018	Overpressure	0	-	-	-	-
	Ground Vibration		-	-	-	-
2019	Overpressure	10	< 88	113.9	<120	<115
	Ground Vibration		0.524	2.09	<10	<5
2020	Overpressure	8	NT	114.4	<120	<115
	Ground Vibration		NT	2.47	<10	<5
2021	Overpressure	Nil				
	Ground Vibration					

NT – not triggered.

Blasting Results Monitor 4

Year		No. of blasts in year	Min. value	Max. value	100 percentile limit	95 percentile limit
2016	Overpressure	0	-	-	-	-

	Ground Vibration		-	-	-	-
2017	Overpressure	0	-	-	-	-
	Ground Vibration		-	-	-	-
2018	Overpressure	0	-	-	-	-
	Ground Vibration		-	-	-	-
2019	Overpressure	1	110.6	110.6	<120	<115
	Ground Vibration		0.28	0.28	<10	<5
2020	Overpressure	0	-	-	-	-
	Ground Vibration		-	-	-	-
2021	Overpressure	Nil				
	Ground Vibration					

Blasting Results Monitor 5

Year		No. of blasts in year	Min. value	Max. value	100 percentile limit	95 percentile limit
2016	Overpressure	0	-	-	-	-
	Ground Vibration		-	-	-	-
2017	Overpressure	0	-	-	-	-
	Ground Vibration		-	-	-	-
2018	Overpressure	0	-	-	-	-
	Ground Vibration		-	-	-	-
2019	Overpressure	1	111.5	111.5	<120	<115
	Ground Vibration		0.220	0.220	<10	<5
2020	Overpressure	0	-	-	-	-
	Ground Vibration		-	-	-	-
2021	Overpressure	Nil				
	Ground Vibration					

NT – not triggered.

8.4 Air Quality

8.4.1 EIS Prediction

Air quality assessments and emission predictions were conducted during the EIS process. To enable assessment of dust concentrations and deposition rates from the proposed quarrying operations, detailed dispersion modelling was conducted using the CALMET / CALPUFF modelling system. The model-predicted dust concentrations and deposition rates were added to ambient concentrations (presented in the EIS) to assess the cumulative dust exposure at surrounding receptors. The modelling and assessment conducted for the EIS outlined performance targets (provided below) and determined that compliance with these targets could be achieved:

- dust deposition of 4 g/m2-month when monitored in accordance with Australian Standard AS 3580.10.1 Methods for sampling and analysis of ambient air – Determination of particulates – Deposited matter – Gravimetric method; and
- an aerodynamic diameter of less than 10 µm (PM10) suspended in the atmosphere of 50 µg/m3 over a 24-hour averaging time when monitored in accordance with Australian Standard AS 3580.9.6 Methods for sampling and analysis of ambient air – Determination of suspended particulate matter – PM10 high volume sampler with size selective inlet – Gravimetric method.

The performance targets were adopted and are reflected in Schedule 3, Condition 12, Table 5 of the Development Consent.

Table 5: Air quality criteria

Pollutant	Averaging Period	Criterion	
Particulate matter < 10 µm (PM_{10})	Annual	[a,d] 30 µg/m³	
Particulate matter < 10 µm (PM_{10})	24 hour	[b] 50 µg/m³	
Total suspended particulates (TSP)	Annual	[a,d] 90 µg/m³	
[c] Deposited dust	Annual	[b] 2 g/m²/month	[a,d] 4 g/m²/month

Notes tor Table 5:

a. Cumulative impact (i.e. increase in concentrations due to the development plus background concentrations due to all other sources).

b. Incremental impact (i.e. incremental increase in concentrations due to the development with zero allowable exceedances of the criteria over the life of the development).

c. Deposited dust is to be assessed as insoluble solids as defined by Standards Australia, AS/NZS 3580.10.1.2003: Methods for Sampling and Analysis of Ambient Air - Determination of Particulate Matter - Deposited Matter - Gravimetric Method.

d. Excludes extraordinary events such as bushfires, prescribed burning, dust storms, sea fog, fire incidents, or any other activity agreed to by the Secretary.

e." Reasonable and feasible avoidance and mitigation measures" includes, but is not limited to, the operational requirements in conditions 14 and 15 to develop and implement an air quality management system that ensures operational responses to the risks of exceedance of the criteria.

8.4.2 Actual

During the reporting period, dust deposition monitoring was undertaken monthly at four (4) locations. The annual dust deposition monitoring results for the reporting period are provided in the table below. The data suggests that compliance has been maintained during the reporting period.

Table 9 – Annual Dust Deposition Monitoring Result

Analyte	10/12/20 - 11/01/21	11/01/21 - 10/02/21	10/02/21 - 10/03/21	10/03/21 - 08/04/21	08/04/21 - 12/05/21	12/05/21 - 09/06/21	09/06/21 - 07/07/21	07/07/21 - 03/08/21	03/08/21 - 07/09/21	07/09/21 - 08/10/21	08/10/21 - 08/11/21	08/11/21- 03/12/21
PDG1												
Ash Content	0.2	0.7	1.8	0.2	0.5	0.6	0.4	1.2	2.0	1.1	0.8	1.8
Combustible Matter	0.2	0.3	2.3	0.6	0.2	0.2	0.2	0.5	0.3	<LoR	0.1	1.7
Total Insoluble Matter	0.4	1.0	4.1	0.8	0.7	0.8	0.6	1.7	2.3	1.1	0.9	3.5
PDG2 (background)												
Ash Content	2.8	1.8	1.6	1.1	0.6	0.6	0.3	0.1	0.6	2.1	0.7	1.0
Combustible Matter	4.3	0.4	5.7	2.8	0.8	0.1	0.5	0.1	<LoR	0.5	0.6	4.2
Total Insoluble Matter	7.1	2.2	7.3	3.9	1.4	0.7	0.8	0.2	0.6	2.6	1.3	5.2
PDG3												
Ash Content	0.3	0.8	0.4	0.3	0.5	1.4	0.7	0.4	1.5	1.4	0.9	0.7
Combustible Matter	2.0	1.2	1.4	0.8	0.1	1.3	0.5	0.4	1.0	0.6	1.0	3.1
Total Insoluble Matter	2.3	2.0	1.8	1.1	0.6	2.7	1.2	0.8	2.5	2.0	1.9	3.8
PDG4 (background)												
Ash Content	0.2	0.4	0.1	0.4	0.7	0.5	0.4	1.1	0.4	0.5	0.6	ND
Combustible Matter	0.4	0.2	0.4	0.9	0.6	0.3	0.4	0.7	0.1	<LoR	0.4	ND
Total Insoluble Matter	0.6	0.6	0.5	1.3	1.3	0.8	0.8	1.8	0.5	0.5	1.0	ND

Units of measure – $g/m^2/month$

ND – No data, funnel broken on collection

LoR – Limit of Reporting

GROUNDWORK plus

GROUNDWORK plus

8.4.3 Comparison with Previous Years Data / Trends

The Air Quality data collected within the reporting period shows comparative levels of compliance with previous years of air quality monitoring. Average incremental changes indicate that measures being adopted at the site are effective.

8.4.4 Monitoring Trends

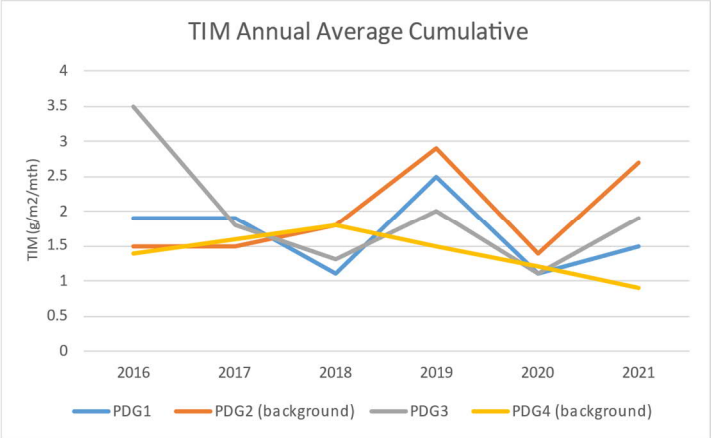
The following is a summary of Total Insoluble Matter (TIM) for monitoring undertaken since 2016. Annual average values were compliant with performance targets as per condition Schedule 3, Condition 12, Table 5 of the Development Consent.

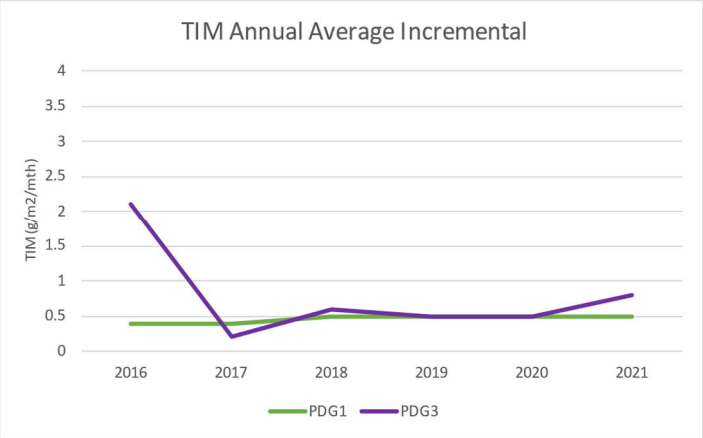
Table 10 – Annual Dust Deposition Summary (Total Insoluble Matter)

Monitoring Location Point	No. of times measured during the year	Min. value	Max. value	Average value (cumulative)	Average value (incremental)	Average limit (cumulative)	Average limit (incremental)
PDG1							
2016	3	1.2	2.6	1.9	0.4	4	2
2017	12	0.2	8.5	1.9	0.4	4	2
2018	11	0.5	1.8	1.1	<1	4	2
2019	13	0.7	4.6	2.5	<1	4	2
2020	12	0.2	2.8	1.1	<1	4	2
2021	12	0.4	4.1	1.5	<1	4	2
PDG2 (Background)							
2016	3	0.9	2	1.5	-	4	-
2017	12	0.3	4.3	1.5	-	4	-
2018	11	0.5	5.1	1.8	-	4	-
2019	12	1.5	4.4	2.9	-	4	-
2020	12	0.3	4.5	1.4	-	4	-
2021	12	0.2	7.3	2.7	-	4	-
PDG3							
2016	3	1	5.6	3.5	2.1	4	2
2017	12	0.5	4.5	1.8	0.2	4	2
2018	11	0.2	2.5	1.3	0.6	4	2
2019	13	0.8	3.3	2.0	0.5	4	2
2020	12	0.4	1.9	1.1	<1	4	2
2021	12	0.6	3.8	1.9	0.8	4	2
PDG4(background)							
2016	3	0.9	1.9	1.4	-	4	-
2017	8	0.6	4.4	1.6	-	4	-
2018	11	0.5	5.1	1.8	-	4	-
2019	13	0.6	2.3	1.5	-	4	-
2020	11	0.2	2.5	1.2	-	4	-
2021	11	0.5	1.8	0.9	-	4	-

TIM – total particulates not soluble in waste

Graph 1 –Annual Average Value (cumulative and incremental) 2016 to 2021





8.5 Biodiversity

8.5.1 EIS Prediction

A preliminary assessment of ecological values through desktop analysis and field survey of the of the quarry area, was conducted during the EIS process. The assessment concluded that the area was unlikely to hold any notable value for flora or fauna species of significance. Recommendations for minimising the impact on ecological values provided in section 7.4.8 of the EIS, were adopted and are reflected in Schedule 3, Condition 33 of the Development Consent. As per the requirements of Schedule 3, Condition 33 of the Development Consent, a Biodiversity and Rehabilitation Management Plan has been prepared and submitted to the DP&E on 26 February 2018. Approval of this plan was given on 6 March 2018.

8.5.2 Actual

No clearing and or rehabilitation works have been undertaken during the reporting period as the quarry requires access to all operational areas.

8.5.3 Comparison with Previous Years Data / Trends

In comparison to previous years of reporting no land clearing has been undertaken. Similarly, as the operational areas remain in use as part of the current activities' rehabilitation is yet to commence. It is anticipated that once the final level of the pit has been reached and extraction demand diminish areas will become available for rehabilitation to commence.

8.6 Cultural Heritage

8.6.1 EIS Prediction

Assessments conducted as part of the EIS process determined the site to be of low archaeological sensitivity and significance. During the assessment, no objects of Aboriginal Heritage where found however an unexpected finds procedure has been development as part of the Aboriginal Cultural Heritage Management Plan (ACHMP).

As per the requirements of condition Schedule 3, Condition 29 of the Development Consent, an ACHMP must be prepared and implemented. The ACHMP was submitted to the Department on 22 November 2017 and approved on 24 January 2018.

8.6.2 Actual

During the reporting period, no objects of Aboriginal Cultural Heritage were found.

8.6.3 Comparison with Previous Years Data / Trends

No cultural heritage items were found during the reporting period which is consistent with the previous reporting period.

8.7 Management Plans

The Independent Traffic Audit (ITA) was prepared and submitted to the Department in accordance with Condition 28 of Schedule 3 of the development consent for the Coraki Quarry Project (SSD 7036) (the approval). The ITA recommended that the Transport Management Plan (TMP) be updated to 'note that the Pacific Highway now bypasses Woodburn and the most direct route to and from the quarry to the Pacific Highway is now via Uralba Street rather than River Street through the Woodburn village'. The Department advised by letter dated 30 July 2021 that the ITA report generally satisfied the reporting requirements and requested that the updated TMP be submitted separately through the Major Project Website for assessment.

The updated TMP in response to the ITA was submitted to the Department via the Major Projects Portal on 30 July 2021. The Department advised by letter dated 13 September 2021 that the document meets the relevant requirements of the conditions of consent and was approved. Subsequently the approved updated TMP has been implemented by the quarry.

No other approved management plans were updated during the reporting period.

8.8 Visual Impacts

8.8.1 EIS Prediction

An assessment of views from 6 representative locations around the site was undertaken as part of the EIS process, to determine the potential impact the quarry may have on visual amenity. The quarry is located in a predominately rural setting. The rural landscape has been largely cleared of vegetation. The surrounding rural land utilised primarily for cattle grazing is considered to provide vistas of moderate scenic quality. The Petersons Quarry has been in operation since 1916 and is part of the landscape. Schedule 3, Condition 36 of the Development Consent, required the installation and maintenance of vegetated acoustic bunds specified in Appendix 5 of the Development Consent.

8.8.2 Actual

Photographs of the acoustic bunds condition are provided below. The bunds are compliant with the requirements of Appendix 5 of the Development Consent. Based on the photos provided the visual screens have well established vegetation which are similar to the surrounding agricultural landscape when viewed from areas surrounding the quarry.

<table>
<tr>
<td>Screen 1

Not required to be constructed as western stockpile area has not been constructed yet.</td>
<td>Screen 2 – SW boundary of quarry footprint
 </td>
</tr>
<tr>
<td>Screen 3 – North of central stockpile area
 </td>
<td>Screen 4 – N boundary of quarry footprint
 </td>
</tr>
<tr>
<td>Screen 5

Not required to be constructed because the Seelems Road access has not been constructed yet.</td>
<td>Screen 6 – NE of quarry footprint
 </td>
</tr>
</table>

8.8.3 Comparison with Previous Years Data / Trends

The condition of the visual amenity and noise bunds around the extraction area is similar to previous years. Vegetation was well established on these bunds in previous years and has been maintained throughout the life of the quarry.

8.9 Hazardous Goods and Storage

8.9.1 EIS Prediction

An assessment of hazardous goods (including its transportation) on the project site was conducted as part of the EIS process. The criteria for hazardous material storage quantities outlined in Table 3 of the SEPP 33 guideline (Department of Planning 2011a) was reviewed to determine which management strategies need to be implemented. The review concluded that the quarry site is not considered potentially hazardous.

8.9.2 Actual

Previous onsite refuelling areas have been decommissioned and is now conducted by a licensed contractor. The areas used for refuelling are within a closed catchment with spill kits located within close proximity should a spill occur. Spill kits are regularly restocked as required. Oil and waste oil are stored within suitable drums or containers and kept in a bunded chemical container. The bund of the container is suitable for the volume of hydrocarbon being stored within the container. Staff are aware of the capacity of the bund and that this cannot be exceeded.

8.9.3 Comparison with Previous Years Data / Trends

Refuelling activities are outsourced to a local provider removing the need for onsite storage of fuel. Oils are stored in drums or containers appropriate for the item and are stored in a bunded container.

8.10 Waste Management

8.10.1 EIS Prediction

No predications for waste were provided in the EIS. It was determined that wastes generated by the quarry are unlikely to have a significant detrimental impact on the environment.

8.10.2 Actual

Schedule 3, Condition 37 of the Development Consent states:

The Applicant must:

a) manage on-site sewage treatment and disposal in accordance with the requirements of its EPL, and to the satisfaction of the EPA and Council;
b) minimise the waste generated by the development;
c) ensure that the waste generated by the development is appropriately stored, handled and disposed of; and
d) report on waste management and minimisation in the Annual Review, to the satisfaction of the Secretary.

Waste streams and management of them is as follows:

- General Solid Waste (putrescible) is serviced by Richmond Valley Council (normal kerbside bins, including recycling) and disposed lawfully.
- General Solid Waste (non-putrescible) is stored in skip bins and removed by licenced contractor Richmond Waste who lawfully dispose it at council facilities.
- When necessary scrap metal is recycled by Lismore Metal recyclers.
- The site office has town water and sewer connections.
- Waste oil stored in 1000L pods and recycled by Richmond Waste Services.
- Used tyres are appropriately stockpiled and reused where possible to weigh down stockpile traps and used in haul road delineators.

It must be noted that minimal waste is generated on site and no waste is generated from extraction activities. Waste management strategies will be reviewed during the Annual Review process in February each year.

KIS Quarries have provided the waste register for the reporting period (refer Attachment 5) advising that a total of two (2) general waste skip bins were collected by Richmond Waste, and no waste oil or scrap metal collections were made.

8.10.3 Comparison with Previous Years Data / Trends

Waste generation and management is less than previous years data consistent with production volumes decreasing.

8.11 Environmental Performance Summary

As per the requirements of the Departments annual review guideline, a summary of Environmental performance during the reporting period is provided in the table below. Attachment 2 outlines the compliance status of each condition of the approval applicable to the Development Consent.

Table 11 – Environmental Performance Summary

Aspect	Prediction	Performance	Trend/Implications	Management measures
Water	DC – condition 19, 20, 21 EIS – section 7.8.4, 7.9	Compliant	N/A	Inspection and maintenance of ERSED controls. Monitoring site prior to and following rainfall events. Survey control over the depth of excavations
Noise	DC – Schedule 3, condition 4. Appendix 4. EIS – 7.5.11	Complaint	Maintain noise management measures.	Acoustic barriers are being maintained. Nearby residents continue to be consulted. Weather station monitoring being undertaken.
Blasting	DC – Schedule 3, condition 8, 9, 10, 11. EIS section 7.7.1	Compliant.	Maintain blast management measure.	Implementation of Blast Management Plan and SOP. Pre-start meetings held and on a blast day, safety and firing procedures are discussed. Blast notification board visible on entry sign.
Air Quality	DC – Schedule 3, condition 12, 13, 15, 16. Appendix 5. EIS – 7.6.7	Compliant	Maintain air quality management measures.	Monthly dust monitoring was undertaken;

Aspect	Prediction	Performance	Trend/Implications	Management measures
				Maintenance of vegetated acoustic bunds; Weather station monitoring being undertaken; Water cart usage suited to wind conditions; Daily prestart meeting with workforce discusses what the protocol should be followed should dust become an environmental or safety issue. Site entry is sealed to prevent mud tracking and dust lift off.
Biodiversity	DC – Schedule 3, condition 31, 32, 33 EIS – 7.4.8	No clearing of vegetation or commencement of rehabilitation works was undertaken during the reporting period.	Nil as no rehabilitation works were undertaken during this reporting period and or last reporting period.	Remnant vegetation areas are fenced and or demarcated for protection.
Cultural Heritage	DC – Schedule 3, condition 29, 30 EIS – section 7.2.4	No objects of Aboriginal Cultural Heritage were found during the reporting period.	Nil as no objects of Aboriginal Cultural Heritage have been found over the project to date.	Site induction includes information in relation to cultural heritage management.
Visual	DC – Schedule 3, condition 36. Appendix 5. EIS – section 7.10	Compliant. Bunds remain in place and are maintained in accordance with Appendix 5 of the DC.	Nil. Bunds are well vegetated and established.	Regular visual inspections take place Routine weed management is undertaken

Aspect	Prediction	Performance	Trend/Implications	Management measures
				Community complaints register maintained
Hazardous Goods and Storage	DC – Schedule 3, condition 38, 39. EIS – section 7.14	Compliant.	Hydrocarbon management has been maintained.	Quarry manager does routine inspections
Waste	DC – Schedule 3, condition 37. EIS – section 7.14	Compliant. The site is serviced by appropriately licensed waste contractors. All waste receptacles comply with the relevant Australian Standards. All waste is reported to be disposed of at an appropriately licensed facility.	Nil.	Continuation of waste services with licensed contractor

9 Rehabilitation

No rehabilitation works were undertaken on site during the reporting period, as activities are still being conducted in extractive areas.

Table 12 – Rehabilitation Status

Quarry Area Type	Previous Reporting Period (actual)	This Reporting Period (actual)	Next Reporting Period (forecast)
	Year X-1(ha)	Year X (ha)	Year X +1(ha)
A. Total Quarry footprint	32.3ha	32.3ha	32.3ha
B. Total active disturbance	32.3ha	32.3ha	32.3ha
C. Land being prepared for rehabilitation	Nil	Nil	Nil
D. Land under active rehabilitation	Nil	Nil	Nil
E. Completed rehabilitation	Nil	Nil	Nil

10 Community

Quarry Solutions (the former quarry operator) previously contributed to community organisations, groups or individuals in the Coraki and District with grants of $100 to $5000 available.

KIS Quarries do not maintain the financial contributions to the community because the size and scale of the operation is reducing in line with the gradual completion of the Pacific Highway Upgrade Project.

No complaints were received during 2021.

11 Independent Environmental Audit

Schedule 5, Condition 10 and 11 of the development consent states:

10. Within two years of the date of this consent, and every 3 years thereafter, unless the Secretary directs otherwise, the Applicant must commission and pay the full cost of an Independent Environmental Audit of the development. This audit must:

a) be conducted by a suitably qualified, experienced and independent team of experts whose appointment has
been endorsed by the Secretary;
b) include consultation with the relevant agencies;
c) assess the environmental performance of the development and whether it is complying with the relevant requirements in this consent and any relevant EPL or necessary water licences for the development (including any assessment, strategy, plan or program required under these approvals);
d) review the adequacy of strategies, plans or programs required under the abovementioned approvals;
e) recommend appropriate measures or actions to improve the environmental performance of the development, and/or any assessment, strategy plan or program required under the abovementioned approvals; and
f) be conducted and reported to the satisfaction of the Secretary.

Note: This audit team must be led by a suitably qualified auditor and include experts in any fields specified by the Secretary.

11. Within 12 weeks of commencing this audit, or as otherwise agreed by the Secretary, the Applicant must submit a copy of the audit report to the Secretary, together with its response to any recommendations contained in the audit report, including a timetable for the implementation of any measures proposed to address the recommendations in the report.

The most recent IEA was conducted by NGH Environmental in May 2021. The Department accepted the IEA by letter dated 6 July 2021. Section 4 of the IEA included recommendations and opportunities for improvement being:

- The requirement to quarry only to the 18AHD level could be added to toolbox discussions.
- As there is no documented evidence that KIS have provided opportunities for educational site visits by local schools and other community groups, the audit recommends that this occurs.

KIS confirmed that the requirement to quarry only to the depth of 18m AHD had been added to toolbox discussions. KIS Advised that contact had been made with local schools and other community groups however due to COVID19 restrictions no actual visits occurred during the reporting period.

The next IEA is scheduled to occur in 2024.

12 Independent Traffic Audit

Schedule 2, Condition 28 of the development consent states the following:

28. Within 6 months of commencement of transport operations, and every three years thereafter, unless the Secretary directs otherwise, the Applicant must commission a suitably qualified person, whose appointment has been approved by the Secretary, to conduct an independent traffic audit of the development. This audit must:

- *a) have the site verification component of the audit undertaken without prior notice to the Applicant;*
- *b) assess the impact of the development on the performance of the road network;*
- *c) investigate any incidents involving heavy vehicles associated with the development, including reviewing any community complaints;*
- *d) assess the effectiveness of the Drivers Code of Conduct; and*
- *e) recommend any necessary measures to reduce or mitigate any adverse (or potentially adverse) impacts.*

Within one month of receiving the audit report, or as otherwise agreed by the Secretary, the Applicant must submit a copy of the audit report to the Secretary, with a response to any of the recommendations contained in the audit report, to the satisfaction of the Secretary.

The most recent Independent Traffic Audit (ITA) was competed by TTM Consulting Pty Ltd in May 2021. The ITA found no non-compliances. A response to the ITA was submitted by Groundwork Plus on behalf of the proponent to the Department on 10 June 2021. The Department accepted the findings of the ITA by letter dated 29 July 2021. The ITA recommended that the Transport Management Plan be updated. This was completed and the Department subsequently approved the updated Transport Management Plan by letter dated 13 September 2021. The next ITA is due to occur in 2024.

13 Incidents and non-compliances

This section of the Annual Review shall expand on the information outlined in Section 2, including the following:

- identify the date when the non-compliance occurred, if applicable;
- if relevant, identify the precise location where the non-compliance occurred (using maps or diagrams as appropriate);
- detail the cause of the non-compliance;
- detail what action has been, or will be, taken to mitigate any adverse effects of the non-compliance; and
- detail what action has been, or will be, taken to prevent a recurrence of the non-compliance.

No non-compliances occurred in 2021 other than the delay in the timing of the June noise monitoring event which has previously been discussed in this report.

This section of the Annual Review also addresses the following items provided in the table below:

Table 13 – Other Incidents or Non-compliance Matters

Matter	Comment
a description of any reportable incidents or exceedances;	No reportable incidents or exceedances occurred other than the delay in the timing of the June noise monitoring event which has previously been discussed in this report.
a summary of any official cautions or warning letters, penalty notices or prosecution proceedings by any regulatory agency;	No official cautions, warning letters, penalty notice or prosecution proceedings by any regulator occurred.
a summary of the operator's response to any official cautions or warning letters, penalty notices or prosecution proceedings; and	The operator did not have to respond to any official cautions or warning letters, penalty notices or prosecution proceedings.
general commentary on any actions undertaken to prevent the recurrence of any reportable incidences or exceedances.	The operator will continue to implement the actions of the approved management plans for the site.

14 Actions for the next reporting period

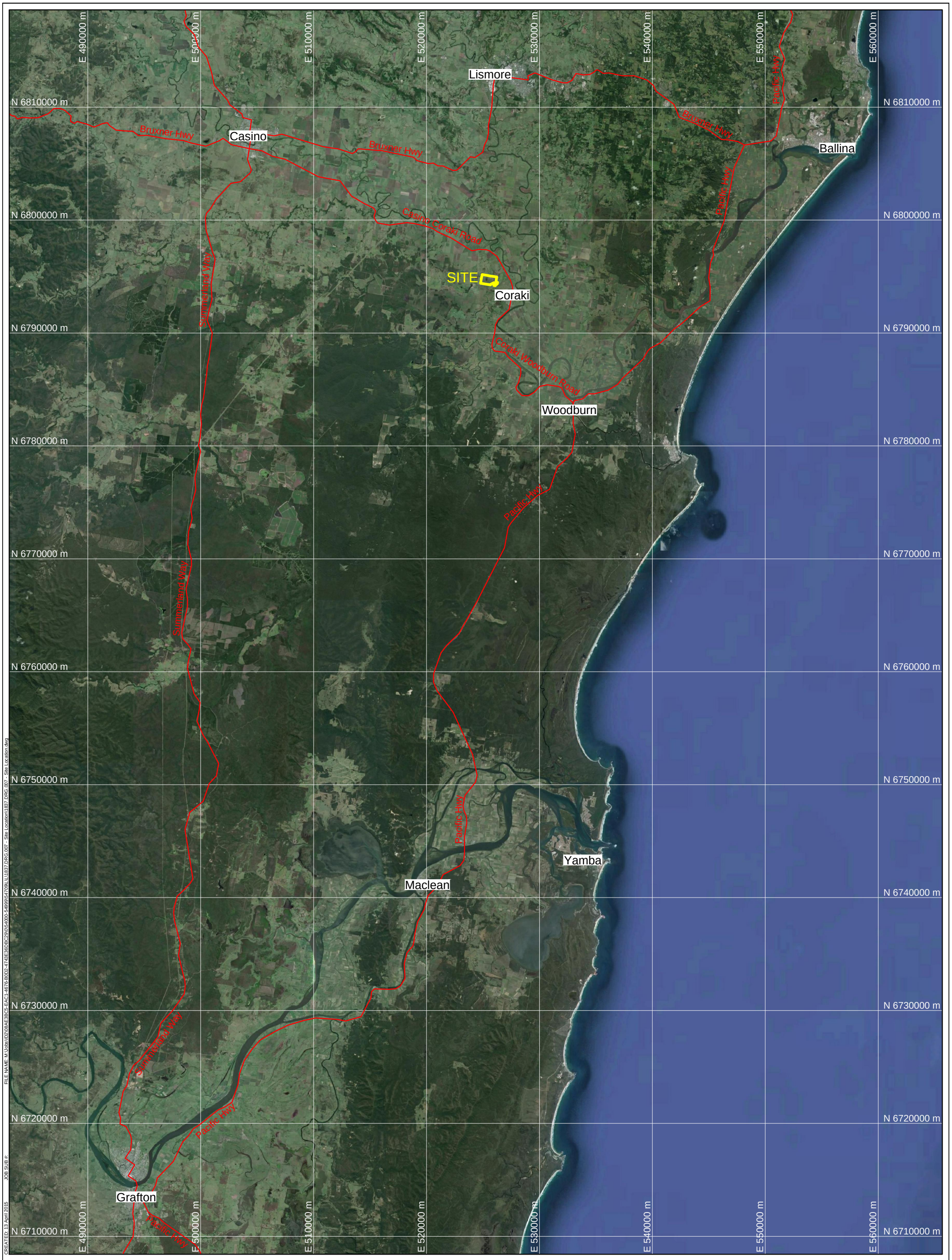
Proposed actions to be undertaken in the 2022 period include the following:

- Progress the development application for extension of the Petersons Quarry.
- Continue toolbox talks to refresh staff understanding of the approval requirements such as the 18m AHD extraction depth limit.
- Continue to contact local schools and community groups to offer opportunities to visit the quarry.

ATTACHMENTS

Attachment 1

Drawings



FILE NAME: M:\Jobs\ID2\08AE3BC5-EAC1-4676-B0D2-474E36DBC290\54000-54999\54709\LU\1837.DRG.007 - Site Location.dwg

JOB SUB #:

CREATED: 13 April 2015

REV	DESCRIPTION	DATE	BY
1	Revised site boundary	07/09/15	LT

Data Sources:
Photography: Google. Image date: 2013-04-10
Topography:
Cadastre:
Ecosystem:
Other:

THESE DESIGNS AND PLANS ARE COPYRIGHT AND ARE NOT TO BE USED OR REPRODUCED WHOLLY OR IN PART OR TO BE USED ON ANY PROJECT WITHOUT THE WRITTEN PERMISSION OF GROUNDWORK PLUS. ABN: 80 829 145 906

Legend:
- Site Boundary
- Major Road

PROJECT: Coraki Quarry

CLIENT: Quarry Solutions Pty Ltd

TITLE: Site Location Plan

GROUNDWORK plus
PH: +61 7 3871 0411
WWW.GROUNDWORK.COM.AU

SCALE: 1:300,000 When Printed On A3 — 0 — 6km

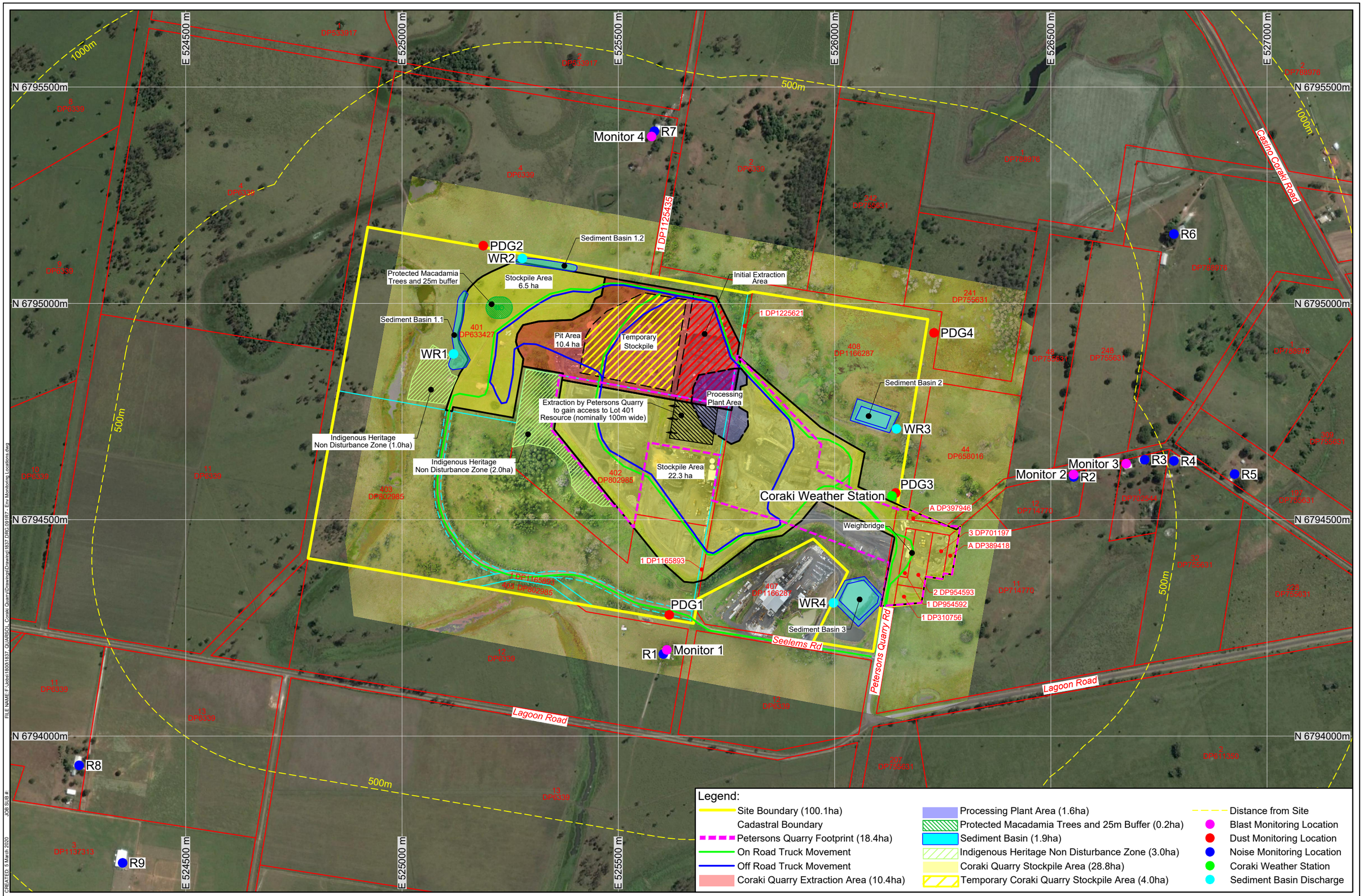
DRAWING NUMBER: 1837.DRG.007

REVISION: 1

DATE: 7 September 2015 | DRAWN: LT

PRINTED: 10 September 2015 | CHECKED: JL

DATUM: HORIZONTAL / VERTICAL / ZONE
MGA / / 56



FILE NAME: F:\Jobs\1800s\1837 QUARRSOL, Coraki Quarry\Drawings\Drawings\1837.DRG.091R7 - Env Monitoring Locations.dwg
JOB SUB #
CREATED: 5 March 2020

REV	DESCRIPTION	DATE	BY
5	Extraction Area & Stockpile Area Amended	11/05/17	JS
6	Processing Plant Area Modified	29/10/19	JHV
7	Update Plan for EPA Request	05/03/20	MR

Data Sources:
Photography: UAV Survey 2016-05-05; Google. Image date: 2014-12-18
Topography: UAV Survey 2016-05-05
Cadastre:
Ecosystem:
Other:

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Area of New Disturbance Associated with Coraki Quarry:

Coraki Quarry Extraction Area (Including Temporary Coraki Quarry Stockpile Area) (9.9ha)
Coraki Quarry Stockpile Area Outside of the Petersons Quarry Footprint (7.7ha + 6.5ha on Lot 401 = 14.2ha)
Sediment Basin (1.9ha)

PROJECT: Coraki Quarry

CLIENT: Quarry Solutions Pty Ltd

TITLE: Environmental Monitoring Locations

GROUNDWORK plus
PH: +61 7 3871 0411
WWW.GROUNDWORK.COM.AU

SCALE: 1:8,000 When Printed On A3 (0 – 160)
DRAWING NUMBER: 1837.DRG.091
REVISION: 7
DATE: 5 March 2020
DRAWN: JHV
PRINTED: 5 March 2020
CHECKED: DD
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MGA / AHD / 56

Attachment 2

Audit Checklist

GROUNDWORK plus

Condition Number	Condition	Compliant Y/N/NA	Comments - evidence details
Obligation to minimise harm			
1	In addition to meeting the specific performance criteria established under this consent, the Applicant must implement all reasonable and feasible measures to prevent and/or minimise any material harm to the environment that may result from the construction, operation, or rehabilitation of the development.	Y	Sighted Environmental Management Strategy and associated management plans. Quarry Manager conducts daily site inspections respect to noise and dust generation, chemical storage, ERSED control effectiveness and mud tracking on public roads. Any aspects that are more than a see-and-fix are reporting in the site management system and corrective actions assigned to relevant staff, however most records are kept informally in site diary. This include site checks following periods of rainfall. A principle hazard checklist is completed once a week which covers key environmental aspects. Quarry Management System requires toolbox talks to be conducted on Environmental aspects. Workforce is encouraged to raise any concerns about HSE matters each day. New workers must undertake a site induction which provides an overview of the environmental requirement of the site. The quarry management system also has task specific environmental requirements that are required to be risk assessed prior to execution.
Terms of Consent			
2	The Applicant must carry out the development: (a) generally in accordance with the EIS, SEE (MOD 1), SEE (MOD 2), SEE (MOD 3) and the Development Layout (b) in accordance with the Statement of Commitments and conditions of this consent.	Y	The development is generally being carried out in accordance with the relevant requirements. Quarry Manager has a poster including all environmental management obligations on the office wall.

Condition Number	Condition	Compliant Y/N/NA	Comments - evidence details
3	If there is any inconsistency between the above documents, the most recent document must prevail to the extent of the inconsistency. However, the conditions of this consent must prevail to the extent of any inconsistency.	Y	Noted
4	The Applicant must comply with any reasonable requirement/s of the Secretary arising from the Department's assessment of: (a) any strategies, plans, programs, reviews, audits, reports or correspondence that are submitted in accordance with this consent; (b) any reviews, reports or audits undertaken or commissioned by the Department regarding compliance with this consent; or (c) the implementation of any actions or measures contained in these documents.	Noted	Noted.
Lapsing of Consent			
5	If the development has not been physically commenced within 5 years of the date of this consent, then this development consent must lapse.	Not triggered	Operations began within the 5 years period.
Limits on Consent			
6	The Applicant may carry out quarrying operations for the development until 30 June 2023.	Noted	Noted
7	The Applicant must not extract materials outside of the Extraction Area, or stockpile materials outside of the Stockpile Area and Temporary Stockpile Area, as shown in Appendix 2; nor extract materials below 18 metres AHD.	Y	The site has been set out with survey markers. The site is regularly flown with a survey drone and the disturbance limits are verified during this process.
8	The Applicant must not extract or process more than 1 million tonnes of quarry products in any calendar year.	Y	19,496t in total were recorded through the site's weighbridge during the reporting period.
Notification of emergencies, incidents and exceptions			
9	The Applicant must not dispatch from the development more than 31 laden trucks per hour or more than: (a) 231 laden trucks per day (Monday to Friday); and (b) 105 laden trucks per day (Saturday), unless operating in accordance with condition 2 of Schedule 3, in which case the Applicant may dispatch up to 273 laden trucks per day (Monday to Saturday).	Y	The sites weighbridge system has preventive mechanisms installed to restrict trucks leaving site once the hourly rate is reached. Based on this the compliance has been maintain during the reporting period. Daily truck movements limits are also checked and verified. Operator has advised that the daily truck movement limits have not been exceeded within the reporting period.
Structural Adequacy			
10	The Applicant must ensure that all new buildings and structures, and any alterations or additions to existing buildings and structures, are constructed in accordance with the relevant requirements of the BCA.	Y	No new demountable buildings have been installed within the reporting period. Certificates for existing

Condition Number	Condition	Compliant Y/N/NA	Comments - evidence details
			buildings have been previously provided and reported on. All buildings on site are have been verified to meet the relevant standards to hold a temporary structure building approval.
Demolition			
11	The Applicant must ensure that all demolition work is carried out in accordance with Australian Standard AS 2601-2001: The Demolition of Structures, or its latest version.	Not triggered	No demolition works have been carried out in the reporting period.
Protection of Public Infrastructure			
12	Unless the Applicant and the applicable authority agree otherwise, the Applicant must: (c) repair, or pay the full costs associated with repairing, any public infrastructure that is damaged by the development; (d) relocate, or pay the full costs associated with relocating, any public infrastructure that needs to be relocated as a result of the development. Note: This condition does not apply to any damage to roads caused as a result of general road usage or otherwise addressed by contributions required of condition 17 of this consent.	Y	Noted
Operation of Plant and Equipment			
13	The Applicant must ensure that all the plant and equipment used at the site is: (a) maintained in a proper and efficient condition; and (b) operated in a proper and efficient manner.	Y	The Quarry Management System requires all operators of plant and equipment to carry out prestart assessments using a site-specific app. This prompts the operator to flagging defects for required maintenance. Pro-active plant maintenance also occurs in accordance with manufacturer specifications and recommendations.
Production Data			
14	The Applicant must: (a) provide annual quarry production data to DRG using the standard form for that purpose; and (b) include a copy of this data in the Annual Review (see condition 9 of Schedule 5).	Noted	The production data is attached to the annual report.
Identification of Approved Extraction Limits			
15	By 30 November 2017, or one month prior to commencement of extraction from Lot 1 DP1225621, whichever is earlier, unless otherwise agreed by the Secretary, the Applicant must: (a) engage a registered surveyor to mark out the boundaries of the approved limits of extraction; and (b) submit a survey plan of these boundaries with applicable GPS coordinates to the Secretary.	Y	Previously sighted survey plans prepared by Kennedy Surveying dated 26 Sep 2017 and email submission to the Department date 9 October 2017.

Condition Number	Condition	Compliant Y/N/NA	Comments - evidence details
			Operator does regular aerial surveys. Site boundaries are verified during these flyovers.
16	While quarrying operations are being carried out, the Applicant must ensure that these boundaries are clearly marked at all times in a manner that allows operating staff to clearly identify the approved limits of extraction.	Y	Previously sighted markers around extraction pit area and survey plan Kennedy surveying DWG 16104A Rev 2 dated 27 Sep 16.
Contributions to Council			
17	The Applicant must pay to Council a contribution of $1.12 per tonne of quarry products transported from the development for the maintenance of the local road network. The contribution must be paid quarterly and indexed in line with the provisions of the Richmond Valley Council Section 94 Heavy Haulage Plan 2013 or any subsequent relevant contributions plan adopted by Council. Note: If the parties are unable to agree on any aspect of the maintenance contributions, either party may refer the matter to the Secretary for resolution.	Y	Operator has advised that contributions are paid monthly to Richmond Valley Council and this is currently up to date.
Crown Roads			
18	The Applicant must obtain approval for the closure of the Crown road on the eastern boundary of Lot 401 DP 633427 prior to undertaking the development within the area of the road.	Y	Road closure was completed in March 2017. Previously sighted email notification to the department that this had occurred.
Compliance			
19	The Applicant must ensure that all employees, contractors and sub-contractors are aware of, and comply with, the conditions of this consent relevant to their respective activities.	Y	The Quarry Management System requires all employees, contractors and subcontractors to be site inducted. The site induction material was sighted which contains relevant obligations under the approval. Ongoing toolbox talks are provided to the workforce in order to reinforce and build further upon induction material. A poster summarising the sites obligations under the planning consent is also displayed at the site office. Other features of the quarry Management System include Safe Work Method Statements, internal incident reporting and monthly area inspection targets from staff and senior management.

<table>
<tr><th>Condition Number</th><th>Condition</th><th>Compliant Y/N/NA</th><th>Comments - evidence details</th></tr>
<tr><td colspan="4">Applicability of Guidelines</td></tr>
<tr><td>20</td><td>References in the conditions of this consent to any guideline, protocol, Australian Standard or policy are to such guidelines, protocols, Standards or policies in the form they are in as at the date of this consent.</td><td>Y</td><td>Noted</td></tr>
<tr><td>21</td><td>However, consistent with the conditions of this consent and without altering any limits or criteria in this consent, the Planning Secretary may, when issuing directions under this consent in respect of ongoing monitoring and management obligations, require compliance with an updated or revised version of such guidelines, protocol, Standard or policy, or a replacement of them.</td><td>Y</td><td>Noted</td></tr>
<tr><td colspan="4">Schedule 3 – Environmental Performance Conditions</td></tr>
<tr><td colspan="4">Noise</td></tr>
<tr><td>1</td><td>The Applicant must comply with the operating hours set out in Table 1.
Table 1: Operating Hours
<table>
<tr><th>Activity</th><th>Permissible Hours</th></tr>
<tr><td>Quarrying operations including truck loading and dispatch</td><td>7 am to 6 pm Monday to Friday;
8 am to 1 pm Saturday; and
At no time on Sundays or public holidays.</td></tr>
<tr><td>Blasting</td><td>9 am to 3 pm Monday to Friday; and
At no time on Saturdays, Sundays or public holidays.</td></tr>
<tr><td>Maintenance activities</td><td>May be conducted at any time, provided that these activities are not audible at any privately-owned residence.</td></tr>
</table></td><td>Y</td><td>As per condition 2 (below) agreements are in place with the nearby residents. The operational hours have therefore been updated in the Noise Management Plan approved by DPIE on 13/11/19.

However, the operator has advised that due to lower demand that the quarry is generally operating within the standard hours as per Table 1 and unlikely to require the extended hours of operation in the future.</td></tr>
<tr><td>2</td><td>The Applicant may operate under the extended operating hours set out in Table 2 only after obtaining written agreements with landowners R1 to R9 (as shown on the plan in Appendix 3), and after advising the EPA and the Secretary in writing of the terms of these agreements.
Table 2: Extended Operating Hours
<table>
<tr><th>Activity</th><th>Permissible Hours</th></tr>
<tr><td>Quarrying operations including truck loading and dispatch</td><td>6 am to 7 pm Monday to Friday;
6 am to 7 pm Saturday; and
At no time on Sundays or public holidays.</td></tr>
<tr><td>Maintenance activities</td><td>May be conducted at any time.</td></tr>
</table></td><td>Y</td><td>The applicant has obtained the required the relevant landowner agreements. Records are retained on file from 2016 and 2019. Also see above</td></tr>
</table>

<table>
<tr><th>Condition Number</th><th>Condition</th><th>Compliant Y/N/NA</th><th>Comments - evidence details</th></tr>
<tr><td>3</td><td>The following activities may be carried out on the site at any time:
(a) delivery or dispatch of materials as requested by Police or other authorities; and
(b) emergency work to avoid the loss of lives, property and/or to prevent environmental harm.
In such circumstances, the Applicant must notify the Secretary and affected residents prior to undertaking the activities, or as soon as is practical thereafter.</td><td>Not triggered</td><td>Not triggered</td></tr>
<tr><td colspan="4">Noise Impact Assessment Criteria</td></tr>
<tr><td>4</td><td>The Applicant must ensure that the noise generated by the development does not exceed the criteria in Table 3 at any residence on privately-owned land.
Table 3: Noise criteria dB(A)
<table>
<tr><th>Receiver</th><th>Day
dB(A) ($L_{Aeq(15\ min)}$)</th><th>Evening
dB(A) ($L_{Aeq(15\ min)}$)</th><th>Night
dB(A) ($L_{Aeq(15\ min)}$)</th></tr>
<tr><td>All privately-owned residences</td><td>35</td><td>35</td><td>35</td></tr>
</table>
Note: Receiver locations are shown on the figure in Appendix 3.
Noise generated by the development is to be measured in accordance with the relevant requirements and exemptions (including certain meteorological conditions) of the NSW Industrial Noise Policy. Appendix 4 sets out the meteorological conditions under which these criteria apply and the requirements for evaluating compliance with these criteria. However, the noise criteria in Table 3 do not apply if the Applicant has an agreement with the relevant landowner to exceed the noise criteria, and the Applicant has advised the EPA and the Secretary in writing of the terms of this agreement.</td><td>Y</td><td>Noise monitoring confirmed compliance.</td></tr>
<tr><td colspan="4">Operating Conditions</td></tr>
<tr><td>5</td><td>The Applicant must:
(a) implement best practice management to minimise the operational and road transportation noise of the development;
(b) minimise the noise impacts of the development during meteorological conditions when the noise criteria in this consent do not apply (see Appendix 4);
(c) after the commencement of quarrying operations at the development, carry out noise monitoring (at least every 3 months, or as otherwise agreed with the Secretary) to determine whether the development is complying with the relevant conditions of this consent; and
(d) regularly assess noise monitoring data and modify and/or stop operations associated with the development to ensure compliance with the relevant conditions of this consent, to the satisfaction of the Secretary.</td><td>N</td><td>Noise monitoring in July was delayed. This was reported as a non-compliance at the time. The annual report has identified this as a non-compliance.

All other monitoring events occurred as per the requirements of the condition.</td></tr>
<tr><td colspan="4">Noise Management Plan</td></tr>
<tr><td>6</td><td>The Applicant must prepare a Noise Management Plan for the development to the satisfaction of the Secretary.
The plan must;
(a) be prepared in consultation with EPA;</td><td>Y</td><td>The determination of Modification 3 triggered a revision of the previously approved Noise Management Plan. A revised noise management plan covering the requirement of this condition was</td></tr>
</table>

<table>
<tr><th>Condition Number</th><th>Condition</th><th>Compliant Y/N/NA</th><th>Comments - evidence details</th></tr>
<tr><td></td><td>(b) be submitted to the Secretary within 6 months of the date of this consent, or prior to the commencement of operations, whichever is earlier, unless otherwise agreed by the Secretary;
(c) describe the measures that would be implemented to ensure:
• compliance with the noise criteria in this consent;
• best practice management is being employed to minimise operational noise from the development; and
• the noise impacts of the development are minimised during meteorological conditions under which the noise criteria in this consent do not apply (see Appendix 4);
(d) describe the proposed noise management system, including the establishment of acoustic bunds (as shown on the plan in Appendix 5) and other noise controls; and
(e) include a monitoring program to be implemented to measure noise from the development against the noise criteria in Tables 3, and which evaluates and reports on the effectiveness of the noise management system of the development.
The Applicant must implement the approved management plan as approved by the Secretary.</td><td></td><td>submitted to the Department on 20th June 2019. The Secretary approved the revised plan on 13th of November 2019.</td></tr>
<tr><td colspan="4">Noise Compliance Review</td></tr>
<tr><td>7</td><td>The Applicant must commission a Noise Compliance Review for the development within 3 months of commencement of operations or as otherwise agreed with the Secretary. The review must be undertaken to the satisfaction of the Secretary and:
(a) be undertaken by a suitably qualified and experienced acoustic engineer during a period when the quarry is operating;
(b) assess whether the development is complying with the noise limits in this consent;
(c) include the details of the plant and equipment operating at the time of the review;
(d) identify any additional measures to be implemented to ensure compliance; and
(e) provide details of any complaints received in relation to noise generated by the development and the action taken in response to those complaints.
Within one month of receiving the Noise Compliance Review report, or as otherwise agreed by the Secretary, the Applicant must submit a copy of the report to the Secretary, with a response to any recommendations contained in the report.</td><td>Y</td><td>Noise Compliance Monitoring was completed within 3 months of the commencement of the quarry operations.</td></tr>
<tr><td colspan="4">Blasting Criteria</td></tr>
<tr><td>8</td><td>The Applicant must ensure that blasting associated with the development does not cause any exceedance of the criteria in Table 4.
Table 4: Blasting criteria
<table>
<tr><th>Receiver</th><th>Airblast overpressure (dB(Lin Peak))</th><th>Ground vibration (mm/s)</th><th>Allowable exceedance</th></tr>
<tr><td rowspan="2">Any residence on privately-owned land</td><td>120</td><td>10</td><td>0%</td></tr>
<tr><td>115</td><td>5</td><td>5% of the total number of blasts over a period of 12 months</td></tr>
</table></td><td>Y</td><td>The blasts carried out within the reporting period are compliant with the criteria of this condition.</td></tr>
</table>

Condition Number	Condition	Compliant Y/N/NA	Comments - evidence details
	However, these criteria do not apply if the Applicant has a written agreement with the relevant owner to exceed the limits in Table 4, and the Applicant has advised the Department in writing of the terms of this agreement.		
Blasting Frequency			
9	The Applicant may carry out a maximum of 2 blasts per calendar month, unless with the prior approval of the Secretary or unless an additional blast is required following a blast misfire. This condition does not apply to blasts required to ensure the safety of workers on site or other persons. Note: For the purposes of this condition a blast refers to a single blast event, which may involve a number of individual blasts fired in quick succession in a discrete area of the quarry.	Y	The operator has have advised that no blasts were conducted within the Coraki Quarry extraction area for the reporting period. The frequency of blasts did not exceeded 2 per calendar month.
Operating Conditions			
10	During blasting operations, the Applicant must: (a) implement best practice management to: • protect the safety of people and livestock in the areas surrounding blasting operations; • protect public or private infrastructure/property in the surrounding area from damage from blasting operations; • minimise the dust and fume emissions of blasting; (b) operate a suitable system to enable the local community to get up-to-date information on the proposed blasting schedule for the development; (c) obtain agreement with any private landowner affected by blast exclusion zones that are required to manage fly rock; and (d) carry out regular monitoring to determine whether the development is complying with the relevant conditions of this consent, to the satisfaction of the Secretary.	Y	A Blast Management Plan was developed in accordance with this condition and subsequently approved by DPIE on 24th Jan 2018. The licensed Blasting contractor undertaking the work follows a SMWS and Site Blasting Procedure that have has been designed in accordance with this condition.
Blast Management Plan			
11	The Applicant must prepare a Blast Management Plan for the development to the satisfaction of the Secretary. This plan must: (a) be submitted to the Secretary for approval within 6 months of the date of this consent, or prior to the commencement of blasting, whichever is earlier, unless otherwise agreed by the Secretary; (b) describe the measures that would be implemented to ensure compliance with the blast criteria and operating conditions of this consent; (c) include measures to manage flyrock; (d) include a monitoring program for evaluating and reporting on compliance with the blasting criteria in this consent; (e) include community notification procedures for the blasting schedule; and (f) include a protocol for investigating and responding to complaints. The Applicant must implement the approved management plan as approved by the Secretary.	Y	The Blast Management Plan forms part of the Sites environmental management plan submitted to DPE 22 November 2017 and subsequently approved on 24 January 2018.

<table>
<tr><th>Condition Number</th><th>Condition</th><th>Compliant Y/N/NA</th><th>Comments - evidence details</th></tr>
<tr><td colspan="4">Air Quality Impact Assessment Criteria</td></tr>
<tr><td>12</td><td>The Applicant must ensure that all reasonable and feasible avoidance and mitigation measures are employed so that particulate matter emissions generated by the development do not cause exceedances of the criteria in Table 5 at any residence on privately-owned land.

Table 5: Air quality criteria
<table>
<tr><th>Pollutant</th><th>Averaging Period</th><th colspan="2">Criterion</th></tr>
<tr><td>Particulate matter < 10 µm (PM_{10})</td><td>Annual</td><td colspan="2">[a,d] 30 µg/m³</td></tr>
<tr><td>Particulate matter < 10 µm (PM_{10})</td><td>24 hour</td><td colspan="2">[b] 50 µg/m³</td></tr>
<tr><td>Total suspended particulates (TSP)</td><td>Annual</td><td colspan="2">[a,d] 90 µg/m³</td></tr>
<tr><td>[c] Deposited dust</td><td>Annual</td><td>[b] 2 g/m²/month</td><td>[a,d] 4 g/m²/month</td></tr>
</table>
Notes tor Table 5:
a. Cumulative impact (ie increase in concentrations due to the development plus background concentrations due to all other sources).
b. Incremental impact (ie incremental increase in concentrations due to the development with zero allowable exceedances of the criteria over the life of the development).
c. Deposited dust is to be assessed as insoluble solids as defined by Standards Australia, AS/NZS 3580.10.1:2003: Methods for Sampling and Analysis of Ambient Air - Determination of Particulate Matter - Deposited Matter - Gravimetric Method.
d. Excludes extraordinary events such as bushfires, prescribed burning, dust storms, sea fog, fire incidents, or any other activity agreed to by the Secretary.
e."Reasonable and feasible avoidance and mitigation measures" includes, but is not limited to, the operational requirements in conditions 14 and 15 to develop and implement an air quality management system that ensures operational responses to the risks of exceedance of the criteria.</td><td>Y</td><td>Depositional dust monitoring is undertaken on a monthly basis. Dust monitoring reports for monitoring period show that the annual average reading for depositional dust is below 4 g/ m2 / month.

.</td></tr>
<tr><td colspan="4">Quarry-owned Land</td></tr>
<tr><td>13</td><td>The Applicant must ensure that all reasonable and feasible avoidance and mitigation measures are employed so that particulate matter emissions generated by the development do not cause exceedances of the criteria in Table 5 at any occupied residence on quarry-owned land (including land owned by another quarry owner) unless:
(a) the tenant has been notified of any health risks associated with such exceedances in accordance with the notification requirements under Schedule 4 of this consent; and
(b) the tenant of any land owned by the Applicant can terminate their tenancy agreement without penalty at any time, subject to giving reasonable notice; to the satisfaction of the Secretary.</td><td>Not triggered</td><td>There are no residences on quarry-owned land (including land owned by another quarry owner).</td></tr>
</table>

Condition Number	Condition	Compliant Y/N/NA	Comments - evidence details
Operating Conditions			
14	The Applicant must: (a) implement best practice management to minimise the dust emissions of the development; (b) regularly assess meteorological and air quality monitoring data and relocate, modify and/or stop operations associated with the development to ensure compliance with the air quality criteria in this consent; (c) minimise the air quality impacts of the development during adverse meteorological conditions and extraordinary events (see notes under Table 5); (d) monitor and report on compliance with the relevant air quality conditions in this consent; and (e) minimise the area of surface disturbance and undertake progressive rehabilitation of lands associated with the development, to the satisfaction of the Secretary.	Y	Water trucks are used on site and usage is increased in windy conditions. No dust complaints were received.
Air Quality Management Plan			
15	The Applicant must prepare an Air Quality Management Plan for the development to the satisfaction of the Secretary. This plan must: (a) be submitted to the Secretary for approval within 6 months of the date of this consent, or prior to the commencement of operations, whichever is earlier, unless otherwise agreed by the Secretary; (b) describe the measures that would be implemented to ensure: • compliance with the relevant conditions of this consent; • best practice management is being employed; and • the air quality impacts of the development are minimised during adverse meteorological conditions and extraordinary events; (c) describe the proposed air quality management system; and (d) include an air quality monitoring program that: • is capable of evaluating the performance of the development; • includes a protocol for determining any exceedances of the relevant conditions of consent; • effectively supports the air quality management system; and • evaluates and reports on the adequacy of the air quality management system. The Applicant must implement the approved management plan as approved by the Secretary.	Y	The AQMP was submitted to the Department of Planning and Environment on 22 November 2017 and approved on 24 January 2018.
Meteorological Monitoring			
16	For the life of the development, the Applicant must ensure that there is a suitable meteorological station operating in the vicinity of the site that complies with the requirements in the Approved Methods for Sampling of Air Pollutants in New South Wales guideline.	Y	Weather station in place, data captured and uploaded onto weatherlink.
Greenhouse Gas Emissions			

Condition Number	Condition	Compliant Y/N/NA	Comments - evidence details
17	The Applicant must implement all reasonable and feasible measures to minimise the release of greenhouse gas emissions from the development.	Y	The Quarry Management System implemented on the site ensures; • Emission control systems are fitted to all plant and equipment. • Maintenance of equipment and vehicles. • Regularly updating vehicles and equipment and where practicable trailing low emission hybrid equipment. • Fleet management system certification – Quarry Manager received an alert if a vehicle or plant is left idling.
Soil and Water			
Water Supply			
18	The Applicant must ensure that it has sufficient water for all stages of the development and, if necessary, adjust the scale of operations under the consent to match its available water supply, to the satisfaction of the Secretary.	Y	The sites water supply is harvested from on-site dams and stored in a 250,000l tank. The water is used for blending of quarry products and dust suppression. When water is required to be imported a licensed contractor is utilised.
Water Discharges			
19	The Applicant must comply with the discharge limits in any relevant EPL, or with section 120 of the POEO Act.	Not triggered	No controlled water discharges pursuant to the EPL occured.
Groundwater			
20	In the event that groundwater in excess of negligible quantities is intersected during extraction activities, the Applicant must undertake a hydrogeological investigation, in consultation with DPI - Water, to the satisfaction of the Secretary. The investigation must report on groundwater sources, levels, yield and quality; identify any risks to groundwater users or groundwater dependent ecosystems and propose recommended management measures. The Applicant must implement reasonable and feasible management measures recommended by the hydrogeological investigation, to the satisfaction of the Secretary.	Not Triggered	Noted. KIS advised that Groundwater has not been intersected.
Water Management Plan			
21	The Applicant must prepare a Water Management Plan for the development to the satisfaction of the Secretary. This plan must: (a) be prepared by suitably qualified and experienced person/s approved by the Secretary;	Y	The WMP was submitted to the Department of Planning and Environment on 26 February 2018 and

Condition Number	Condition	Compliant Y/N/NA	Comments - evidence details
	(b) be prepared in consultation with the EPA and DoL Water; (c) be submitted to the Secretary for approval within 6 months of the date of this consent, or prior to the commencement of operations, whichever is earlier, unless otherwise agreed by the Secretary; (d) include a: (i) Site Water Balance that includes details of: • the volume of water deficit and/or surplus for dry, average and wet years, considering all planned water management infrastructure; • sources and security of water supply, including on-site water storages; • water use and management on site; • any off-site water transfers or discharges including discharge volumes and frequency; • reporting procedures; and • measures that would be implemented to minimise clean water use on site; and (ii) Surface Water Management Plan, that includes: • detailed baseline data on surface water flows and quality in water bodies that could potentially be affected by the development; • a detailed description of the surface water management system on site including the: o clean water diversion system; o erosion and sediment controls; o dirty water management system; and o water storages; • provision of a 40 metre buffer zone between watercourses and quarrying operations; and • a program to monitor and report on: o any surface water discharges; o the effectiveness of the water management system; and o surface water flows and quality in local watercourses. The Applicant must implement the approved management plan as approved by the Secretary.		approved on 6 March 2018. Buffer zones to the watercourses have been maintained during the reporting period.
Transport			
Transport Routes			
22	All laden trucks travelling from the development to the Pacific Highway must travel via Petersons Quarry Road, Lagoon Road, Casino – Coraki Road, Queen Elizabeth Drive and Coraki - Woodburn Road. Trucks returning to the site from the Pacific Highway must return via the same route and enter the development via Seelems Road or Petersons Quarry Road. This condition does not apply: (a) when road closures on the above route are in place; (b) when delivering to sites not involving travel on the Pacific Highway, such as within the local area or sites to the northwest or north of the quarry (eg Casino or Lismore); and	Y	Site management routinely reviews haulage data to confirm compliance.

Condition Number	Condition	Compliant Y/N/NA	Comments - evidence details
	(c) in an emergency to avoid the loss of lives, property and/or to prevent environmental harm.		
Road Upgrade			
23	The Applicant must cause the following road upgrade works to be undertaken to the satisfaction of the Council or the RMS (whichever is the relevant roads authority): (a) prior to trucks returning to the site utilising Seelems Road, provision of a minimum 6 metre sealed carriageway on Seelems Road from Petersons Quarry Road to a point approximately 200 metres west of the entrance to the industrial facility at 30 Seelems Road; and (b) prior to commencing despatch of laden tricks from the development, asphaltic concrete/hot mix sealing of the intersections of Petersons Quarry Road and Lagoon Road; Lagoon Road and Casino – Coraki Road; and Woodburn – Coraki Road and the Pacific Highway.	Not triggered	Sealing of intersections was completed in September 2016 and was captured in previous years annual report. Upgrade works are not required as Seelems road is not being utilised.
24	Prior to commencing the road upgrade works required under condition 23, the Applicant must: (a) notify Council and/or the RMS (whichever is the relevant roads authority) in writing of any existing damage to the sections of road and the intersections listed in condition 23; and (b) lodge a defects liability bond with Council based on 10% of the quantity-surveyed cost of the upgrade works for roads for which the Council is the relevant roads authority.	Not triggered	Works were completed in September 2016 and was captured in previous years reporting.
Monitoring of Product Transport			
25	The Applicant must, by the use of a weighbridge, make, and retain for at least 12 months, records of the time of arrival, time of dispatch, weight of load and vehicle identification for each laden truck dispatched from the development. These records must be made available to the Department on request and a summary included in the Annual Review.	Y	The weighbridge system collects the relevant data required by this condition. Data and automatic reporting was sighted to confirm compliance. Records are retained onsite and can be requested by DPIE for viewing as required.
Operating Conditions			
26	The Applicant must: (a) ensure that all laden trucks entering or exiting the site have their loads covered; and (b) ensure that all laden trucks exiting the site are cleaned of materials that may fall on the road, before leaving the site. (c) use its best endeavours to ensure that appropriate signage is displayed on all trucks used to transport product from the development so they can be easily identified by road users.	Y	Drivers are made aware of this requirement during site induction. Weigh bridge operator also completes visual surveillance of haulage fleet activities.
Transport Management Plan			

Condition Number	Condition	Compliant Y/N/NA	Comments - evidence details
27	The Applicant must prepare a Transport Management Plan for the development to the satisfaction of the Secretary. This plan must: (a) be prepared in consultation with RMS and Council and submitted to the Secretary for approval within 6 months of the date of this consent, or prior to the commencement of despatch of laden trucks from the development, whichever is earlier, unless otherwise agreed by the Secretary; (b) provide a clear description of the transport routes; (c) describe the processes in place for the control of truck movements; (d) describe the measures to be implemented to minimise noise from transport operations; (e) detail the procedures for receiving and addressing complaints from the community concerning traffic issues associated with heavy vehicles arriving at or leaving the development; (f) describe the driver induction and training processes; (g) include a Drivers' Code of Conduct that details the safe and quiet driving practices that must be used by drivers transporting products to and from the quarry, particularly having regard to school bus routes, intersections or sections of road where there is potential for close interactions between passing trucks, and the location of residential properties and associated private access roads; and (h) describe the measures that would be put in place to ensure compliance with the Drivers' Code of Conduct. The Applicant must implement the approved management plan as approved by the Secretary.	Y	The TMP was submitted to the Department of Planning and Environment on 22 November 2017 and approved on 24 January 2018. An updated TMP was submitted to the Department in response to the findings of the Independent Traffic Audit. The updated TMP was approved by the Department on 13 September 2021.
Independent Traffic Audit			
28	Within 6 months of commencement of transport operations, and every three years thereafter, unless the Secretary directs otherwise, the Applicant must commission a suitably qualified person, whose appointment has been approved by the Secretary, to conduct an independent traffic audit of the development. This audit must: (a) have the site verification component of the audit undertaken without prior notice to the Applicant; (b) assess the impact of the development on the performance of the road network; (c) investigate any incidents involving heavy vehicles associated with the development, including reviewing any community complaints; (d) assess the effectiveness of the Drivers Code of Conduct; and (e) recommend any necessary measures to reduce or mitigate any adverse (or potentially adverse) impacts. Within one month of receiving the audit report, or as otherwise agreed by the Secretary, the Applicant must submit a copy of the audit report to the Secretary, with a response to any of the recommendations contained in the audit report, to the satisfaction of the Secretary.	Y	First audit conducted by TTM on 22 March 2017 and report submitted to the Department on 12 April 2017. A revised audit report was prepared (dated 24 July 2017) and re-submitted to the Department for approval. The Department accepted the Independent Traffic Audit Report on 7 July 2017. Second audit conducted by TTM in May 2021 and submitted to the Department and was subsequently accepted by letter dated 29 July 2021.
Aboriginal Heritage			
Aboriginal Cultural Heritage Management Plan			

<table>
<tr><th>Condition Number</th><th>Condition</th><th>Compliant Y/N/NA</th><th>Comments - evidence details</th></tr>
<tr><td>29</td><td>The Applicant must prepare an Aboriginal Cultural Heritage Management Plan for the development to the satisfaction of the Secretary. This plan must:
(a) be prepared in consultation with OEH and the Aboriginal community, and be submitted to the Secretary for approval prior to the commencement of operations; and
(b) include:
a detailed description of the measures that would be implemented to protect Aboriginal sites outside the quarry disturbance area including the two Indigenous Heritage Non-disturbance Zones (shown in Appendix 2);
a description of the measures that would be implemented if any new Aboriginal objects or skeletal remains are discovered during quarrying operations; and
protocol for the ongoing consultation and involvement of the Aboriginal community in the conservation and management of Aboriginal cultural heritage on the site.
The Applicant must implement the approved management plan as approved by the Secretary.</td><td>Y</td><td>The ACHMP was submitted to the Department of Planning and Environment on 22 November 2017 and approved on 24 January 2018.</td></tr>
<tr><td>30</td><td>If any item or object of Aboriginal heritage significance is identified on land associated with the development, the Applicant must ensure that:
(a) all work in the immediate vicinity of the Aboriginal item or object ceases immediately;
(b) a 10 m buffer area around the item or object is cordoned off with high visibility flagging tape, or the like; and
(c) the OEH is contacted immediately.
Work in the vicinity of the Aboriginal item or object may only recommence in accordance with the provisions of Part 6 of the National Parks and Wildlife Act 1974.</td><td>Not triggered</td><td>No objects of Aboriginal heritage significance were found during the reporting period therefore is condition was not triggered.</td></tr>
<tr><td colspan="4">Biodiversity and Rehabilitation</td></tr>
<tr><td>31</td><td>The Applicant must rehabilitate the lands associated with the development to the satisfaction of the Secretary. This rehabilitation must be generally consistent with the rehabilitation strategy in the EIS and must comply with the objectives in Table 6.
Table 6: Rehabilitation objectives<table><tr><th>Feature</th><th>Objective</th></tr><tr><td>Lands associated with the development (as a whole)</td><td>• Safe, stable and non-polluting
• Final landform integrated with surrounding natural landforms as far as is reasonable and feasible, and designed to minimise the visual impacts of the development when viewed from surrounding land</td></tr><tr><td>Surface Infrastructure</td><td>• Decommissioned and removed, unless required for the ongoing operation of Petersons Quarry or as agreed with the Secretary</td></tr><tr><td>Quarry Benches and Pit Floor</td><td>• Revegetated using a combination of pasture species and native vegetation corridors, which link other remnant vegetation on site</td></tr></table></td><td>Y</td><td>Rehabilitation works have not yet commenced as operation areas remain in use. A copy of the rehabilitation plan is kept onsite.</td></tr>
<tr><td colspan="4">Progressive Rehabilitation</td></tr>
</table>

Condition Number	Condition	Compliant Y/N/NA	Comments - evidence details
32	The Applicant must rehabilitate the lands associated with the development progressively, that is, as soon as reasonably practicable following disturbance. All reasonable and feasible measures must be taken to minimise the total area exposed for dust generation at any time. Interim stabilisation measures must be implemented where reasonable and feasible to control dust emissions in disturbed areas that are not active and which are not ready for final rehabilitation. Note: It is accepted that parts of the lands associated with the development that are progressively rehabilitated may be subject to further disturbance in future.	Y	Areas for rehabilitation are limited due to all areas of the extraction are still remaining operationally viable. Interim measures have been implemented to mitigate air and water quality impacts.
Biodiversity and Rehabilitation Management Plan			
33	The Applicant must prepare a Biodiversity and Rehabilitation Management Plan for the site to the satisfaction of the Secretary. This plan must: (a) be prepared in consultation with OEH, and be submitted to the Secretary for approval within 6 months of the date of this consent, or prior to the commencement of operations, whichever is earlier, unless the Secretary agrees otherwise; (b) provide details of the conceptual final landform and associated land uses for the site; (c) describe how the management of biodiversity would be integrated with the overall rehabilitation of the site; (d) include detailed performance and completion criteria for evaluating the performance of the biodiversity management measures and rehabilitation of the site, including triggers for any necessary remedial action; (e) describe the short, medium and long-term measures that would be implemented to: • protect and enhance the remnant vegetation and habitat on the site, including the measures to protect the Macadamia tetraphylla, endangered ecological communities and threatened species on site; • rehabilitate the Macadamia tetraphylla buffer area, Hoop Pine Dry Rainforest community, and • the Seelems Creek rehabilitation area as shown in Appendix 6; • ensure compliance with the rehabilitation objectives, and the progressive rehabilitation obligations in this consent; (f) include a program to monitor the effectiveness of these measures, and progress against the performance and completion criteria; (g) identify the potential risks to the successful implementation of the plan and include a description of the contingency measures that would be implemented to mitigate these risks; and (h) include details of who would be responsible for monitoring, reviewing, and implementing the plan. The Applicant must implement the approved management plan as approved by the Secretary.	Y	The BRMP was submitted to the Department of Planning and Environment on 26 February 2018 and approved on 6 March 2018.
Conservation and Rehabilitation Bond			
34	Within 6 months of the approval of the Biodiversity and Rehabilitation Management Plan, the Applicant must lodge a Conservation and Rehabilitation Bond with the Department to ensure that the management of biodiversity and the rehabilitation of the lands associated with the development are implemented in accordance with the performance and completion criteria set out in the Biodiversity and Rehabilitation Management Plan. The sum of the bond must be determined by: (a) calculating the cost of rehabilitating the lands associated with the development taking into account the likely surface disturbance over the next 3 years of quarrying operations; and (b) employing a suitably qualified quantity surveyor or other expert to verify the calculated costs, to the satisfaction of the Secretary.	Not triggered	The BRMP was submitted to the Department of Planning and Environment on 26 February 2018 and approved on 6 March 2018. A rehabilitation bond is held by the Department.

Condition Number	Condition	Compliant Y/N/NA	Comments - evidence details
35	Within 3 months of each Independent Environmental Audit (see condition 10 of Schedule 5), the Applicant must review, and if necessary revise, the sum of the Conservation and Rehabilitation Bond to the satisfaction of the Secretary. This review must consider the: (a) effects of inflation; (b) likely cost of rehabilitating the site (taking into account the likely surface disturbance over the next 3 years of the development); and (c) performance of the implementation of the rehabilitation of the site to date.	Not triggered	The Independent Audit undertaken in 2018 and 2021 did not trigger a revision of the bond. It is understood that the bond is sufficient to cover the full extent of the necessary clearing.
Visual Impacts			
36	The Applicant must implement all reasonable and feasible measures to minimise the visual impacts of the development, including establishing the vegetated acoustic bunds shown in Appendix 5, to the satisfaction of the Secretary.	Y	Acoustic bunds have been constructed and vegetated in accordance with Appendix 5.
Waste			
37	The Applicant must: (a) manage on-site sewage treatment and disposal in accordance with the requirements of its EPL, and to the satisfaction of the EPA and Council; (b) minimise the waste generated by the development; (c) ensure that the waste generated by the development is appropriately stored, handled and disposed of; and (d) report on waste management and minimisation in the Annual Review, to the satisfaction of the Secretary.	Y	• General Solid Waste (putrescible) is serviced by Richmond Valley Council (normal kerbside bins, including recycling) and disposed lawfully. • General Solid Waste (non-putrescible) is stored in skip bins and removed by licenced contractor Richmond Waste who lawfully dispose it at council facilities. • Used tyres are appropriately stockpiled and reused where possible to weigh down stockpile traps and used in haul road delineators.
Liquid Storage			
38	The Applicant shall ensure that all liquid tanks and similar storage facilities (other than for water) are protected by appropriate bunding or other containment, in accordance with the relevant Australian Standards.	Y	Oil and waste oil are currently stored in drums within a bunded chemical container. The operator has advised that the bund capacity of the container is compliant with the Australian Standard 1940-2017. No other liquids are stored outside this area.
Dangerous Goods			
39	The Applicant must ensure that the storage, handling, and transport of dangerous goods is done in accordance with the relevant Australian Standards, particularly AS1940 and AS1596, and the Dangerous Goods Code.	Y	The blasting is undertaken by an EPA licensed contractor as per these conditions.
40	The Applicant must undertake a transport safety study to the satisfaction of the Secretary and in accordance with Hazardous Industry Planning Advisory Paper No 11: Route Selection (HIPAP11) prior to transporting hazardous materials above the threshold contained in State Environmental Planning Policy 33 Hazardous and Offensive Development.	Y	An EPA licensed blasting contractor is used to transport products to site. Hazardous materials thresholds are not triggered by the development.

Condition Number	Condition	Compliant Y/N/NA	Comments - evidence details
Bushfire			
41	The Applicant must: (a) ensure that the development is suitably equipped to respond to any fires on site; and (b) assist the NSW Rural Fire Service and emergency services as much as possible if there is a fire in the vicinity of the site.	Y	Equipment available onsite to assist in a bush fire is as follows; • Water truck available – 21,000L • Fire Extinguishers in each mobile plant • Fire breaks maintained around fixed assets
Schedule 4 – Additional Procedures			
Notification of Landowners			
1	As soon as practicable and no longer than 7 days after obtaining monitoring results showing: (a) an exceedance of any relevant criteria in Schedule 3, the Applicant must notify the affected landowners in writing of the exceedance, and provide regular monitoring results to each affected landowner until the development is again complying with the relevant criteria; and (b) an exceedance of any relevant air quality criteria in Schedule 3, the Applicant must send a copy of the NSW Health fact sheet entitled "Mine Dust and You" (as may be updated from time to time) to the affected landowners and current tenants of the land (including the tenants of land which is not privately-owned).	Not triggered	No events occurred
Independent Review			
2	If an owner of privately-owned land considers the development to be exceeding the relevant criteria in Schedule 3, then he/she may ask the Secretary in writing for an independent review of the impacts of the development on his/her land.	Not triggered	No landowner requests have been made within the reporting period.
3	If the Secretary is satisfied that an independent review is warranted, then within 2 months of the Secretary's decision the Applicant must: a) commission a suitably qualified, experienced and independent person, whose appointment has been approved by the Secretary, to: • consult with the landowner to determine his/her concerns; • conduct monitoring to determine whether the development is complying with the relevant criteria in Schedule 3; • and, if the development is not complying with these criteria then identify measures that could be implemented to ensure compliance with the relevant criteria; b) give the Secretary and landowner a copy of the independent review; and c) comply with any written requests made by the Secretary to implement any findings of the review.	Not triggered	Not triggered
4	If the independent review determines that the development is complying with the relevant impact assessment criteria in Schedule 3, then the Applicant may discontinue the independent review with the approval of the Secretary. If the independent review determines that the development is not complying with the relevant impact assessment criteria in Schedule 3, then the Applicant must:	Not triggered	Not triggered

Condition Number	Condition	Compliant Y/N/NA	Comments - evidence details
	(a) implement all reasonable and feasible measures, in consultation with the landowner, to ensure that the development complies with the relevant criteria, and conduct further monitoring to determine whether these measures ensure compliance; or (b) secure a written agreement with the landowner to allow exceedances of the relevant impact assessment criteria; to the satisfaction of the Secretary. If the further monitoring referred to under paragraph (a) above determines that the development is complying with the relevant impact assessment criteria, then the Applicant may discontinue the independent review with the approval of the Secretary.		
Schedule 5 – Environmental Management, Reporting and Auditing			
Environmental Management Strategy			
1	If the Secretary requires; the Applicant must prepare an Environmental Management Strategy for the development to the satisfaction of the Secretary. This strategy must: (a) be submitted to the Secretary for approval within 6 months of the date of this consent or prior to the commencement of operations, whichever is earlier; (b) be prepared in consultation with Council; (c) provide the strategic framework for the environmental management of the development; (d) identify the statutory approvals that apply to the development; (e) describe the role, responsibility, authority and accountability of all key personnel involved in the environmental management of the development; (f) describe the procedures that would be implemented to: • keep the local community and relevant agencies informed about the operation and environmental performance of the development; • receive, record, handle and respond to complaints; • resolve any disputes that may arise during the course of the development; • respond to any non-compliance; • respond to emergencies; and (g) include: • copies of any strategies, plans and programs approved under the conditions of this consent; and • a clear plan depicting all the monitoring to be carried out under the conditions of this consent. The Applicant must implement the approved management strategy as approved by the Secretary.	Y	Following approval of modification 3 of the consent, the Environmental Management Strategy was revised and submitted to the Department 20th June 2019. The EMS was subsequently approved by DPIE on 13/11/19.
Evidence of Consultation			
1A	Where consultation with any public authority is required by the conditions of this consent, the Applicant must: (a) consult with the relevant public authority prior to submitting the required document to the Secretary for approval; (b) submit evidence of this consultation as part of the relevant document; (c) describe how matters raised by the authority have been addressed and any matters not resolved; and (d) include details of any outstanding issues raised by the authority and an explanation of disagreement between any public authority and the Applicant.	Y	The Department approved the EMS and all Environmental Management Plans.

Condition Number	Condition	Compliant Y/N/NA	Comments - evidence details
Management Plan Requirements			
2	The Applicant must ensure that the management plans required under this consent are prepared in accordance with any relevant guidelines, and include: (a) detailed baseline data; (b) a description of: • the relevant statutory requirements (including any relevant approval, licence or lease conditions); • any relevant limits or performance measures/criteria; and • the specific performance indicators that are proposed to be used to judge the performance of, or guide the implementation of, the development or any management measures; (c) a description of the measures that would be implemented to comply with the relevant statutory requirements, limits, or performance measures/criteria; (d) a program to monitor and report on the: • impacts and environmental performance of the development; and • effectiveness of any management measures (see (c) above); (e) a contingency plan to manage any unpredicted impacts and their consequences and to ensure that ongoing impacts reduce to levels below relevant impact assessment criteria as quickly as possible; (f) a program to investigate and implement ways to improve the environmental performance of the development over time; (g) a protocol for managing and reporting any: • incidents; • complaints; • non-compliances with statutory requirements; and • exceedances of the impact assessment criteria and/or performance criteria; and (h) a protocol for periodic review of the plan.	Y	The Department approved the EMS and all Environmental Management Plans.
Revision of strategies, plans and programs			
3	Within 3 months of the submission of an: (a) incident report under condition 7 below; (b) annual review under condition 9 below; (c) audit report under condition 10 below; and (d) any modifications to this consent, the Applicant must review the strategies, plans and programs required under this consent, to the satisfaction of the Secretary. Where this review leads to revisions in any such document, then within 4 weeks of the review the revised document must be submitted for the approval of the Secretary.	Y	A review was conducted within 3 months of submission of the previous annual review, 2021 IEA and 2021 ITA and incident report in July 2021 but did not identify any need to revise any documents other than the updated TMP recommended by the ITA, which was subsequently submitted to and approved by the Department in July 2021.

Condition Number	Condition	Compliant Y/N/NA	Comments - evidence details
Updating and staging of strategies, plans and programs			
4	To ensure that strategies, plans and programs required under this consent are updated on a regular basis, and that they incorporate any appropriate additional measures to improve the environmental performance of the development, the Applicant may at any time submit revised strategies, plans or programs for the approval of the Secretary. With the agreement of the Secretary, the Applicant may also submit any strategy, plan or program required by this consent on a staged basis. With the agreement of the Secretary, the Applicant may prepare a revision of or a stage of a strategy, plan or program without undertaking consultation with all parties nominated under the applicable condition in this consent.	Noted	
Adaptive Management			
5	The Applicant must assess and manage development-related risks to ensure that there are no exceedances of the criteria and/or performance measures in Schedule 3. Any exceedance of these criteria and/or performance measures constitutes a breach of this consent and may be subject to penalty or offence provisions under the EP&A Act or EP&A Regulation. Where any exceedance of these criteria and/or performance measures has occurred, the Applicant must, at the earliest opportunity: (a) take all reasonable and feasible steps to ensure that the exceedance ceases and does not reoccur; (b) consider all reasonable and feasible options for remediation (where relevant) and submit a report to the Department describing those options and any preferred remediation measures or other course of action; and (c) implement remediation measures as directed by the Secretary; to the satisfaction of the Secretary.	Noted	
Community Consultative Committee			
6	If directed by the Secretary, the Applicant must establish and operate a Community Consultative Committee (CCC) for the development to the satisfaction of the Secretary. Any such CCC must be operated in general accordance with the Department's Community Consultative Committee Guidelines for State Significant Projects, January 2019 (or its latest version). Notes: • The CCC is an advisory committee. The Department and other relevant agencies are responsible for ensuring that the Applicant complies with this consent. • In accordance with the guidelines, the Committee should comprise an independent chair and appropriate representation from the Applicant, Council and the local community.	Not triggered	The Secretary has not requested to that the applicant establish a Community Consultative Committee (CCC).
Reporting			
Incident Reporting			
7	The Applicant must immediately notify the Department and any other relevant agencies immediately after it becomes aware of an incident. The notification must be in writing to compliance@planning.nsw.gov.au and identify the development (including the development application number and name) and set out the location and nature of the incident.	Y	The Department was notified in relation to the July 2021 delay of noise monitoring as a non-compliance.

Condition Number	Condition	Compliant Y/N/NA	Comments - evidence details
7A	Within seven days of becoming aware of a non-compliance, the Applicant must notify the Department of the non- compliance. The notification must be in writing to compliance@planning.nsw.gov.au and identify the development (including the development application number and name), set out in the condition of this consent that the development is non-compliant with, the way in which it does not comply and the reasons for the non-compliance (if known) and what actions have been, or will be, undertaken to address the non-compliance. Note: A non-compliance which has been notified as an incident does not need to also be notified as a non-compliance.	Y	The Department was notified in relation to the July 2021 delay of noise monitoring as a non-compliance.
Regular Reporting			
8	The Applicant must provide regular reporting on the environmental performance of the development on its website, in accordance with the reporting arrangements in any plans or programs approved under the conditions of this consent.	Y	All documents mentioned are available on company's website.
Annual Review			
9	By the end of March each year, or other timing as may be agreed by the Secretary, the Applicant must review the environmental performance of the development to the satisfaction of the Secretary. This review must: (a) describe the development (including any rehabilitation) that was carried out in the previous reporting period, and the development that is proposed to be carried out over the current calendar year; (b) include a comprehensive review of the monitoring results and complaints records of the development over the previous calendar year, which includes a comparison of these results against the: • relevant statutory requirements, limits or performance measures/criteria; • requirements of any plan or program required under this consent; • the monitoring results of previous years; and • the relevant predictions in the documents listed in condition 2(a) of Schedule 2; (c) identify any non-compliance over the last year, and describe what actions were (or are being) taken to ensure compliance; (d) identify any trends in the monitoring data over the life of the development; (e) identify any discrepancies between the predicted and actual impacts of the development, and analyse the potential cause of any significant discrepancies; and (f) describe what measures will be implemented over the current calendar year to improve the environmental performance of the development.	Y	Annual review has been conducted and submitted prior to the end of March.
Independent Environmental Audit			
10	Within two years of the date of this consent, and every 3 years thereafter, unless the Secretary directs otherwise, the Applicant must commission and pay the full cost of an Independent Environmental Audit of the development. This audit must: (a) be conducted by a suitably qualified, experienced and independent team of experts whose appointment has been endorsed by the Secretary; (b) include consultation with the relevant agencies;	Y	The IEA was conducted in 2021 and subsequently accepted by the Department by letter dated 6 July 2021.

Condition Number	Condition	Compliant Y/N/NA	Comments - evidence details
	(c) assess the environmental performance of the development and whether it is complying with the relevant requirements in this consent and any relevant EPL or necessary water licences for the development (including any assessment, strategy, plan or program required under these approvals); (d) review the adequacy of strategies, plans or programs required under the abovementioned approvals; (e) recommend appropriate measures or actions to improve the environmental performance of the development, and/or any assessment, strategy plan or program required under the abovementioned approvals; and (f) be conducted and reported to the satisfaction of the Secretary.		
11	Within 12 weeks of commencing this audit, or as otherwise agreed by the Secretary, the Applicant must submit a copy of the audit report to the Secretary, together with its response to any recommendations contained in the audit report, including a timetable for the implementation of any measures proposed to address the recommendations in the report.	Y	The IEA was conducted in 2021 and subsequently accepted by the Department by letter dated 6 July 2021.
Monitoring and Environmental Audits			
11A	Any condition of this consent that requires the carrying out of monitoring or an environmental audit, whether directly of by way of a plan, strategy or program, is taken to be a condition requiring monitoring or an environmental audit under Division 9.4 of Part 9 of the EP&A Act. This includes conditions in respect of incident notification, reporting and response, non-compliance notification, compliance report and independent audit. Notes: For the purposes of this condition, as set out in the EP&A Act, "monitoring" is monitoring of the development to provide data on compliance with the consent or on the environmental impact of the development, and an "environmental audit" is a periodic or particular documented evaluation of the development to provide information on compliance with the consent or the environmental management or impact of the development	Y	Noted
11B	Noise, blast and air quality monitoring under this consent is not required at all privately-owned residences and the use of representative monitoring locations can be used to demonstrate compliance with criteria.	Y	Noted
Access to Information			
12	Within 6 months of the date of this consent, until the completion of all works, including rehabilitation and remediation, the Applicant must: (a) make the following information publicly available on its website: • the documents listed in condition 2(a) of Schedule 2; • current statutory approvals for the development; • all approved strategies, plans and programs required under the conditions of this consent; • a comprehensive summary of the monitoring results of the development, reported in accordance with the specifications in any conditions of this consent, or any approved plans and programs; • a complaints register, updated monthly; • the annual reviews of the development; • any independent environmental audit, and the Applicant's response to the recommendations in any audit; • minutes of any CCC meetings;	Y	All documents mentioned are available on company's website.

Condition Number	Condition	Compliant Y/N/NA	Comments - evidence details
	• any other matter required by the Secretary; and (b) keep this information up-to-date; to the satisfaction of the Secretary.		

Attachment 3

Non-compliance notification

Jim Lawler

From: Phillip Rose <Phillip.Rose@planning.nsw.gov.au>
Sent: Tuesday, 29 June 2021 2:19 PM
To: Jim Lawler
Cc: Ben Hyde; Shelley McPhee
Subject: RE: SSD 7036 Coraki Quarry - Request for Delay of Quarterly Noise Monitoring

Hi Jim,

I thank you for the information and the phone call earlier regarding noise monitoring. Given the information provided, the Department provides an extension of time to 2 August 2021 for the collection for the June 2021 quarter noise monitoring.

This should not change the timing of quarterly monitoring for September onwards.

The change in monitoring frequency will constitute a non-compliance of the approval and management plans. However, just ensure that an incident notification in writing (your email below will suffice) is provided within 7 days to the planning portal in accordance with Schedule 5, Condition 7A. The project will need to include this information in the future compliance report, annual review and independent audit.

I hope this information is of assistance.

Kind Regards

Phillip Rose
Compliance Officer
Planning Services
Far Northern Region
NSW Department of Planning, Industry and Environment
PO Box 72 | MURWILLUMBAH NSW 2484
P:02 6670 8657
E: Phillip.Rose@planning.nsw.gov.au

If you are submitting a compliance document or request as required under the conditions of consent or approval, please note that the Department is no longer accepting lodgement via compliance@planning.nsw.gov.au.

The Department has recently upgraded the Major Projects Website to improve the timeliness and transparency of its post approval and compliance functions. As part of this upgrade, proponents are now requested to submit all post approval and compliance documents online, via the Major Projects Website. To do this, please refer to the instructions available here.

From: Jim Lawler <jlawler@groundwork.com.au>
Sent: Tuesday, 29 June 2021 1:24 PM
To: Phillip Rose <Phillip.Rose@planning.nsw.gov.au>
Cc: Ben Hyde <BenH@mwaenviro.com.au>
Subject: RE: SSD 7036 Coraki Quarry - Request for Delay of Quarterly Noise Monitoring

Hi Phillip

As you are aware, Groundwork Plus Pty Ltd and MWA Environmental are engaged by KIS Quarries Pty Ltd in relation to the ongoing operation of the Coraki Quarry including quarterly noise monitoring at the Coraki Quarry in accordance with Development Consent (SSD 0736) Schedule 3 Condition 5(c).

The quarterly noise monitoring has historically been undertaken in March, June, September and December. The last quarterly noise monitoring was undertaken in March 2021 and was assessed to be compliant with the development consent and EPL noise limits.

Monitoring was scheduled for earlier this month but was cancelled due to weather conditions and rescheduled to occur yesterday (Monday 28 June 2021). However, yesterdays' monitoring was cancelled due to the processing plant not being operational.

MWA Environmental had scheduled to visit the site this afternoon or tomorrow, but weather conditions may not be favourable. Furthermore, MWA Environmental is based in Brisbane and travel arrangements due to COVID 19 border closures are uncertain with the real potential for the Queensland Government to declare NSW a Hotspot and impose a hard border closure.

Therefore, the programmed quarterly noise monitoring is unlikely to be completed before the end of June 2021.

We are hopeful that the monitoring can occur by Friday 9 July.

However, from an abundance of caution we request permission for delay of the monitoring for a period of up to 4 weeks (before Saturday 31 July 2021).

If border restrictions are imposed and MWA Environmental can not travel into NSW to undertake the monitoring, we are committed to engaging a local noise consultant to undertake the monitoring.

We apologise for the delay in conducting the monitoring due to the stated circumstances and request agreement from the Department for the minor delay by return email at your earliest convenience.

Kind regards,

Jim Lawler | Associate | Project Director

GROUNDWORK plus

P: 1800 GW PLUS (1800 497 587) F: +61 7 3367 3317
E: jlawler@groundwork.com.au W: groundwork.com.au
6 Mayneview St, Milton QLD 4064 | PO Box 1779, Milton Qld 4064
We're working with you Australia-wide: QLD/NSW | SA/WA/NT | VIC/TAS

The information in this e-mail from Groundwork Plus together with any attachments is intended only for the person or entity to which it is addressed and may contain confidential and/or privileged material. Any form of review, disclosure, modification, distribution and/or publication of this e-mail message is expressly prohibited. If you have received this message in error, you are asked to inform the sender as quickly as possible and delete this message and any copies of this message from your computer and/or your computer system network. It is the recipient's responsibility to check any attachments for viruses before opening or sending them on.

Attachment 4

DRG Production Data

GROUNDWORK plus

Extractive Materials Return 2020-2021

NSW GOVERNMENT | Regional NSW

Form S1 – Period Ending 30 June 2021

Quote RIMS ID in all correspondence

Quarry Id:	Rims ID: 401120
Operators Name:	KIS Quarries
Address:	PO Box 6009, South Tweed Heads NSW 2486
Email:	peter@kisquarries.com.au
Quarry Name:	Petersons Quarry
Quarry Address:	Petersons Quarry Road, Coraki NSW 2471

Inquiries please telephone:
(02) 4063 6713
Completed or Nil Returns
Email –
mineral.royalty@planning.nsw.gov.au
Postal Address (see below)

Please amend name, postal address and location of mine or quarry if incorrect or incomplete.

The return should be completed and forwarded to **Senior Advisory Officer, RESOURCE ECONOMICS, STRATEGY, PERFORMANCE & INDUSTRY DEVELOPMENT, DEPARTMENT OF REGIONAL NSW, PO BOX 344 HUNTER REGION MAIL CENTRE NSW 2310 on or before 31 October 2021**. If completion of the return is unavoidably delayed, an application for extension of time should be requested **before** the due date. If no work was done during the year, a **NIL** return must be forwarded.

The return should relate to the **above quarrying establishment** and should cover the operations of quarrying and treatment (such as crushing, screening, washing etc.) carried out at or near the quarry. A return is required even if the operations are solely of a developmental nature and whether the area being worked is held under a mining title or otherwise.

Director, Resources Policy

Please complete all the following information to assist in identifying the location of the Quarry

Typical Geology _____Basalt_____

Nearest Town to Quarry _____Coraki_____

Local Council Name _____Richmond Valley Council_____

Deposited Plan and Lot Number/s of Quarry _____Lot 401 DP633427, Lot 402 DP802985, Lot 403 DP802985, Lot 408 DP1166287, Lot A DP397946, Lot A DP389418, Lot 3 DP701197, Lot 2 DP954593, Lot 1 DP954592 & Lot 1 DP310756

Email Address of Operator _____peter@kisquarries.com.au _____

Name of Owner or Licensee _____KIS Quarries Pty Ltd_____

Postal Address of Licensee _____PO Box 6009 South Tweed Heads NSW 2486_____

Licence/Lease Number/s (if any)

From Mining, Exploration & Geoscience (NSW Mineral Resources) _____Not applicable_____

From Crown Lands or other NSW Department _____Not applicable_____

If any output was obtained from land NOT held under licence from the above Departments, state the Name/s and Address/es of the Owners of the land _____

To the best of my knowledge, information entered in this return is correct and no blank spaces left where figures should have been inserted.

- **SIGNATURE of PROPRIETOR or MANAGER** _____ **DATE** ____28 March 2022_
- **CONTACT PERSON for this return** _____Peter Roberts_____
- **NAME** (Block letters) ____Peter Roberts _____ **Telephone** _____0488 074 367_

Extractive Materials Return 2020-2021

NSW GOVERNMENT | Regional NSW

Form S1 – Period Ending 30 June 2021

Sales During 2020-2021

Production information may be published in aggregated form for statistical reporting. However, production data for individual operations is kept strictly confidential.

Product	Description	Quantity Tonnes
Virgin Materials		
Crushed Coarse Aggregates		15719.4
Over 75mm		18083.92
Over 30mm to 75mm		272731.96
5mm to 30mm		28567.72
Under 5mm		0
Natural Sand		4312.8
Manufactured Sand		
Prepared Road Base & Sub Base		
Other Unprocessed Materials		
Recycled Materials		
Crushed Coarse Aggregates		0
Over 75mm		0
Over 30mm to 75mm		0
5mm to 30mm		0
Under 5mm		0
Natural Sand		0
Manufactured Sand		0
Prepared Road Base & Sub Base		0
Other Unprocessed Materials		
River Gravel		0
Over 30mm		0
5mm to 30mm		0
Under 5mm		0
Construction Sand	Excluding Industrial	0
Industrial Sand		0
Foundry, Moulding		0
Glass		0
Other (Specify)		0
Dimension Stone	Building, Ornamental, Monumental	0
Quarried in Blocks		0
Quarried in Slabs		0
Decorative Aggregate	Including Terrazzo	0
Loam	Soil for Topdressing, Garden soil, Horticultural purposes)	339415.8
TOTAL SITE PRODUCTION		6498007.06
Gross Value ($) of all Sales		Roadbase, Aggregates, Rock
Type of Material		Contractors
Number of Full-Time Equivalent (FTE) Employees	Employees: 8	

Extractive Materials Return 2020-2021

NSW GOVERNMENT | Regional NSW

Form S1 – Period Ending 30 June 2021

Please Note: A return for clay-based products can be obtained by contacting the inquiry number.

Attachment 5

2021 Waste Register

GROUNDWORK plus

KIS Quarries
KEEP IT SIMPLE

Waste Register

Date	Waste Type	Volume	Company
20/07/21	Bin-General Waste	6m3	Richmond Waste
2/11/21	Bin-General Waste	6m3	Richmond Waste