OBERON QUARRIES

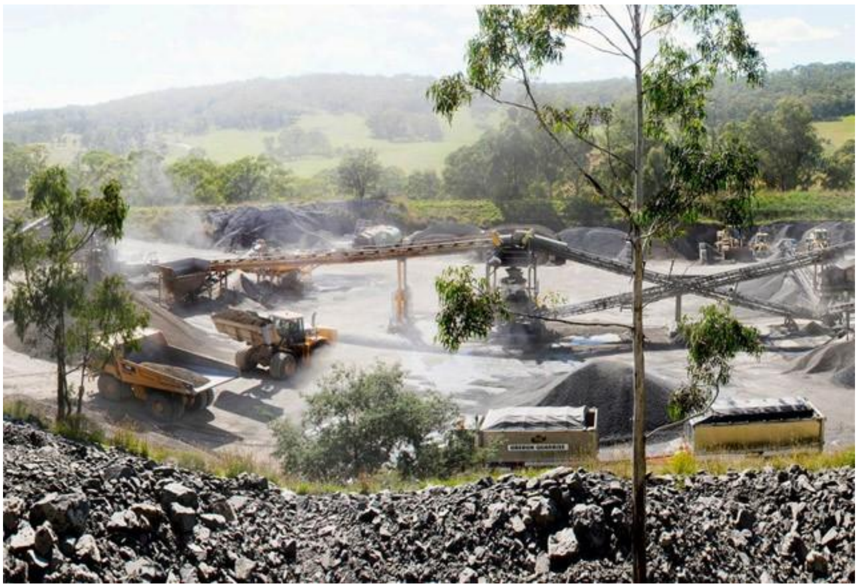
ABN: 12 054 994 802

Oberon Quarry Project

Annual Review 2021

for the period

1 January 2021 to 31 December 2021



Prepared by:

R.W. CORKERY & CO. PTY. LIMITED

March 2022

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ABN: 12 054 994 802

Oberon Quarry Project

Annual Review 2021

1 January 2021 to 31 December 2021

Prepared for:

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March 2022

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Title Block

<table>
<tr><td>Name of operation</td><td colspan="2">Oberon Quarry</td></tr>
<tr><td>Name of operator</td><td colspan="2">Oberon Quarries Pty Ltd</td></tr>
<tr><td>Development consent / project approval #</td><td colspan="2">Oberon Quarry Continuation Project Development Consent SSD_6333</td></tr>
<tr><td>Name of holder of development consent / project approval</td><td colspan="2">Oberon Quarries Pty Ltd</td></tr>
<tr><td>Mining Lease #</td><td colspan="2" rowspan="2">N/A</td></tr>
<tr><td>Name of holder of mining lease</td></tr>
<tr><td>Water licence #</td><td colspan="2">Water Access Licence (WAL) 34279</td></tr>
<tr><td>Name of holder of water licence</td><td colspan="2">Oberon Quarries Pty limited</td></tr>
<tr><td>MOP/RMP start date</td><td colspan="2" rowspan="2">N/A</td></tr>
<tr><td>MOP/RMP end date</td></tr>
<tr><td>Annual Review start date</td><td colspan="2">1 January 2021</td></tr>
<tr><td>Annual Review end date</td><td colspan="2">31 December 2021</td></tr>
<tr><td colspan="3">I, Jake Hargraves, Chief Financial Officer of Oberon Quarries Pty Ltd, certify that this audit report is a true and accurate record of the compliance status of the Oberon Quarry Project for the period 1 January 2021 to 31 December 2021 and that I am authorised to make this statement on behalf of Oberon Quarries Pty Ltd.
Note.
a) The Annual Review is an ‘environmental audit’ for the purposes of section 122B(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); Section 307A, 307B and 307C (false or misleading application/information/documents – maximum penalty 2 years imprisonment or $22,000, or both).</td></tr>
<tr><td>Name of authorised reporting officer</td><td colspan="2">Jake Hargraves</td></tr>
<tr><td>Title of authorised reporting officer</td><td colspan="2">Chief Financial Officer</td></tr>
<tr><td>Signature of authorised reporting officer</td><td colspan="2"></td></tr>
<tr><td>Date</td><td>Original</td><td>31 March 2022</td></tr>
</table>

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1. STATEMENT OF COMPLIANCE

The compliance status of relevant approvals was reviewed for the reporting period (see **Appendix 1**) and is summarised in **Table 1**. This compliance review has been completed based on information provided by the Company and information provided in the 2020 Independent Environmental Audit prepared by Barnett & May (2020).

A compliance status key is provided in **Table 2** and **Table 3** provides a summary of non-compliances during the reporting period. Note that this table and **Appendix 1** make reference to the latest Independent Environmental Audit for the Quarry, dated 28 February 2020. A copy of the 2020 Independent Environmental Audit is provided as Appendix 1 of the 2020 Annual Review.

The compliance review identified no non-compliances with conditions of SSD_6333 (ten including sub-components), two non-compliances with the same condition of EPL 4442 and no non-compliances with the Statement of Commitments (Appendix 2 of SSD_6333) during the reporting period.

Table 1
Statement of Compliance

Were all conditions of the relevant approval(s) complied with?	Yes / No
Development Consent SSD_6333	No
Statement of Commitments (Appendix 2 of SSD_6333)	Yes
EPL 4442	No

Table 2
Compliance Status Key

Risk level	*Colour code*	*Description*
High	*Non-compliant*	*Non-compliance with potential for significant environmental consequences, regardless of the likelihood of occurrence.*
Medium	*Non-compliant*	*Non-compliance with:* • *potential for serious environmental consequences, but is unlikely to occur; or* • *potential for moderate environmental consequences, but is likely to occur.*
Low	*Non-compliant*	*Non-compliance with:* • *potential for moderate environmental consequences, but is unlikely to occur; or* • *potential for low environmental consequences, but is likely to occur.*
Administrative non-compliance	*Non-compliant*	*Only to be applied where the non-compliance does not result in any risk of environmental harm (e.g. submitting a report to government later than required under approval conditions).*

Table 3
Non-compliances During the Reporting Period

<table>
<tr><th>Approval</th><th>Cond. No.</th><th>Condition Description (summary)</th><th>Compliance Status</th><th>Comment</th><th>Where Addressed in Annual Review</th></tr>
<tr><td rowspan="2">EPL 4442</td><td rowspan="2">M2.2</td><td rowspan="2">Air Monitoring Requirements
POINT 1
<table><tr><th>Pollutant</th><th>Units of measure</th><th>Frequency</th><th>Sampling Method</th></tr><tr><td>Particulates - Deposited Matter</td><td>grams per square metre per month</td><td>Monthly</td><td>AM-19</td></tr></table>
POINT 2
<table><tr><th>Pollutant</th><th>Units of measure</th><th>Frequency</th><th>Sampling Method</th></tr><tr><td>Particulates - Deposited Matter</td><td>grams per square metre per month</td><td>Monthly</td><td>AM-19</td></tr></table>
POINT 3
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POINT 4
<table><tr><th>Pollutant</th><th>Units of measure</th><th>Frequency</th><th>Sampling Method</th></tr><tr><td>Particulates - Deposited Matter</td><td>grams per square metre per month</td><td>Monthly</td><td>AM-19</td></tr></table>
</td><td>Non-compliant</td><td>Deposited dust samples not collected at monthly frequency specified for Monitoring Points 1 - 4. Due to the travel restrictions associated with the COVID-19 pandemic.</td><td>6.5</td></tr>
<tr><td>Non-compliant</td><td>Deposited dust samples not collected within 30 +/- 2 days from the previous collection date (i.e. non-compliance with exposure period). Due to the travel restrictions associated with the COVID-19 pandemic.</td><td>6.5</td></tr>
</table>

2. INTRODUCTION

2.1 SCOPE AND FORMAT

This document represents the 7th Annual Review (the Report) prepared for the Oberon Quarry located on Hargraves Quarry Road, Oberon, New South Wales (**Figure 1**). Oberon Quarry (the Quarry) is owned and operated by Oberon Quarries Pty Ltd (the Company) and encompasses a hard rock extraction and processing operation. The Report covers the period from 1 January 2021 to 31 December 2021 (the reporting period).

The Report has been prepared primarily to satisfy Condition 9 of development consent SSD_6333 (**Appendix 2**) (**Table 4**). However, the Report also documents activities undertaken to satisfy the various conditions or requirements of Environment Protection Licence (EPL) 4442 and Water Access Licence (WAL) 34279 as well as commitments made by the Company in earlier reports.

Table 4
Annual Review Requirements – Condition 9 of Schedule 5 of SSD_6333

Requirement	**Addressed in Section**
By the end of March each year, or other timing as may be agreed by the Secretary, the Applicant shall review the environmental performance of the development to the satisfaction of the Secretary. This review must:	This Annual Review
a) describe the development (including any 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;	Sections 4, 8 and 12
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; – monitoring results of previous years; and – relevant predictions in the EIS.	Section 6, 7 and 9
c) identify any non-compliance over the past calendar year, and describe what actions were (or are being) taken to ensure compliance;	Sections 1, 11 and **Appendix 1**
d) identify any trends in the monitoring data over the life of the development;	Section 6
e) identify any discrepancies between the predicted and actual impacts of the development, and analyse the potential cause of any significant discrepancies; and	Section 6
f) describe what measures will be implemented over the current calendar year to improve the environmental performance of the development.	Sections 6, 8, 10 and 12

The Report documents the extraction, processing, water management and rehabilitation works completed during the 12-month period from 1 January 2021 to 31 December 2021. The status and effectiveness of environmental management is also discussed, with the results of noise, air quality, blasting, surface water and groundwater monitoring presented and analysed. The report also identifies the program for extraction, rehabilitation and environmental management for the period 1 January 2022 to 31 December 2022 (i.e. the next reporting period).

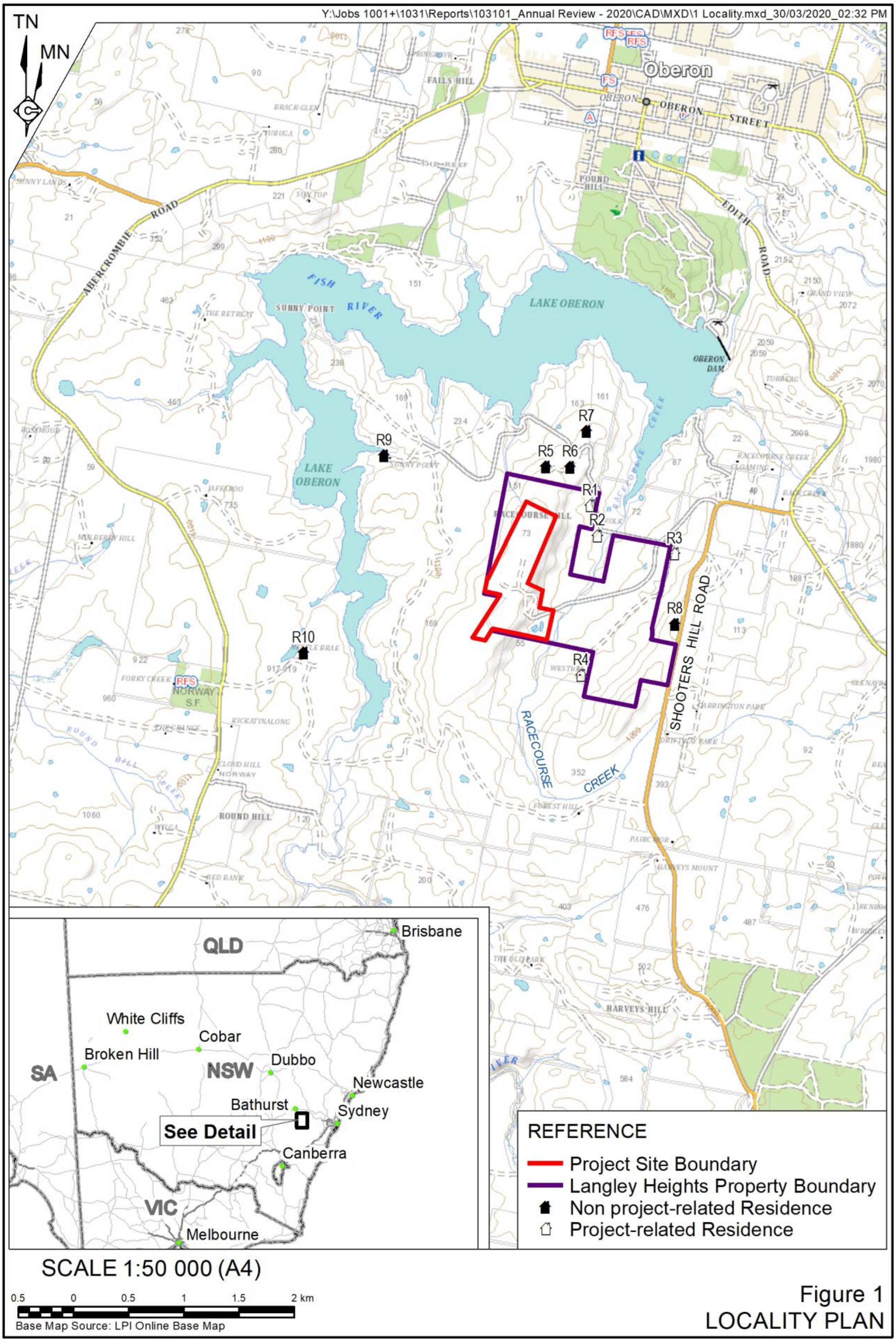


Figure 1
LOCALITY PLAN

In order to avoid unnecessary repetition of background or operational information contained within previous Annual Reviews or other documents previously submitted by the Company, the reader is referred to the relevant sections of those documents. However, for all sections where changes have occurred, the nature of those changes and the relevant background information is presented. Similarly, only figures updated to reflect changes since the submission of the 2020 Annual Review, or those frequently referred to in the text, are presented in this document.

2.2 OVERVIEW OF OPERATIONS

2.2.1 Approved Activities

Figure 2 presents the approved site layout for the Quarry. The approved activities at the Quarry comprise the following.

- Development and use of an extraction area to extract hard rock material using standard drill, blast, load and haul techniques.
- Crushing and processing of hard rock material to produce quarry products.
- Transportation of up to 400 000t per year of quarry products.
- Progressive rehabilitation and construction of the final landform following extraction of the first and second benches within the Extraction Area.

2.2.2 Hours of Operation

Table 5 outlines the approved hours of operation as specified under Condition 1 of Schedule 3 of SSD_6333.

Table 5
Oberon Quarry – Approved Hours of Operation

Activity	Operating Hours
Extraction Operations	7:00am to 6:00pm, Monday to Friday 7:00am to 5:00pm on Saturday
Loading and Despatch	6:00am to 10:00pm, Monday to Friday 6:00am to 5:00pm on Saturday
Construction and Maintenance Activities	7:00am to 6:00pm, Monday to Friday 7:00am to 4:00pm on Saturday
Blasting	9:00am to 5:00pm, Monday to Saturday
Source: SSD_6333, Condition 1 of Schedule 3.	

All activities during the reporting period were undertaken within the approved hours of operation.

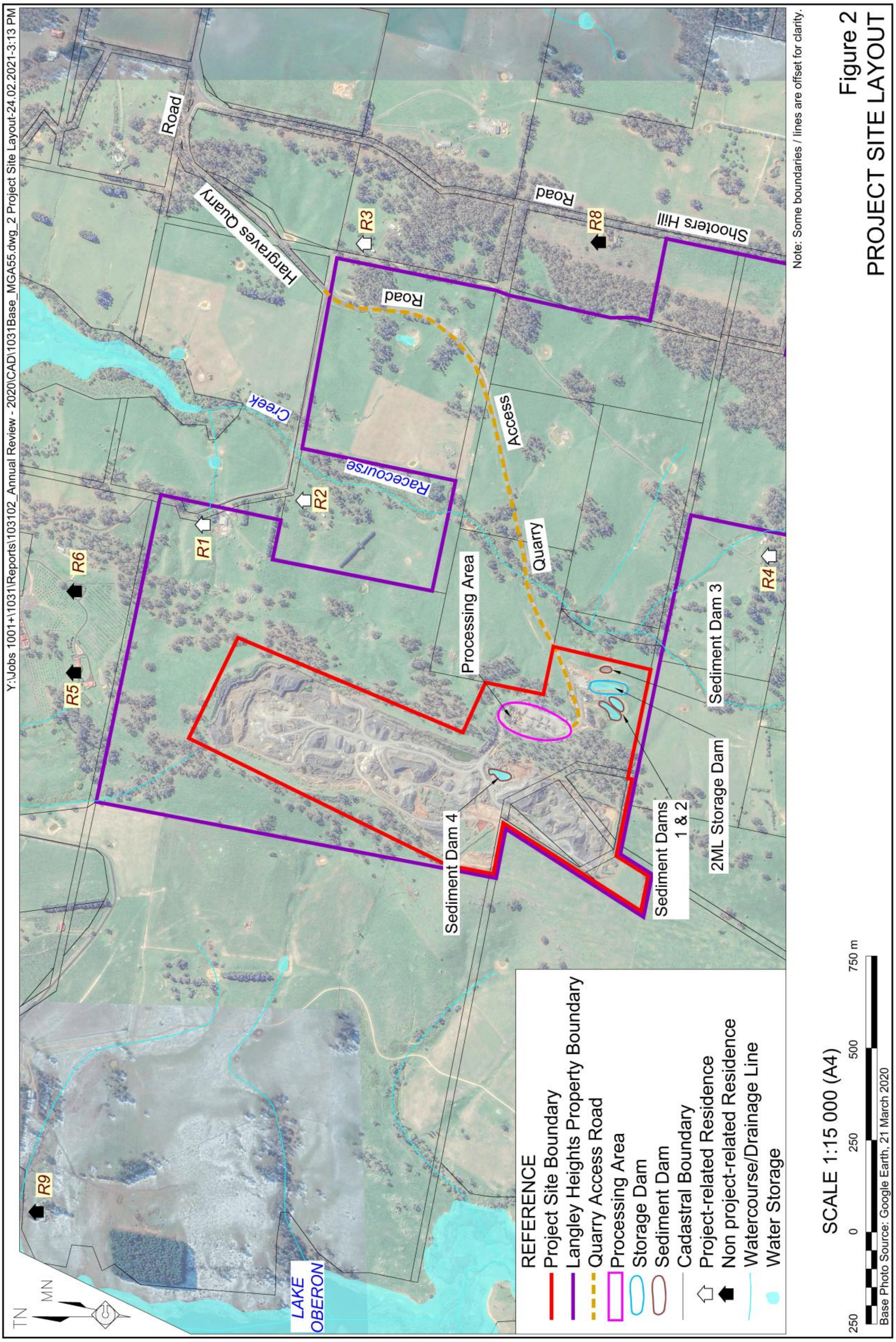


Figure 2
PROJECT SITE LAYOUT
Note: Some boundaries / lines are offset for clarity.
Y:\Jobs 1001+\1031\Reports\103102_Annual Review - 2020\CAD\1031Base_MGA55.dwg_2 Project Site Layout-24.02.2021-3:13 PM
Hargraves Quarry
Road
Shooters Hill
Road
Racecourse
Creek
Quarry
Access
Road
Processing Area
Sediment Dam 3
Sediment Dam 4
Sediment Dams
1 & 2
2ML Storage Dam
R1
R2
R3
R4
R5
R6
R8
R9
LAKE
OBERON
TN
MN
REFERENCE
Project Site Boundary
Langley Heights Property Boundary
Quarry Access Road
Processing Area
Storage Dam
Sediment Dam
Cadastral Boundary
Project-related Residence
Non project-related Residence
Watercourse/Drainage Line
Water Storage
SCALE 1:15 000 (A4)
250
0
250
500
750 m
Base Photo Source: Google Earth, 21 March 2020

2.3 KEY PERSONNEL CONTACT DETAILS

Table 6 provides the names and contact details of key personnel responsible for the various aspects of the operation and environmental management during the reporting period.

Table 6
Key Personnel Responsible for Operations and Environmental Management

Name	Company	Position	Contact Number
Neil Hargraves	Oberon Quarries Pty Ltd	Managing Director	(02) 6336 0259
John Fisher	Oberon Quarries Pty Ltd	Quarry Manager	(02) 6336 0259
Marina Holmes	Oberon Quarries Pty Ltd	Administration Officer	(02) 6336 0312
Jake Hargraves	Oberon Quarries Pty Ltd	CFO	(04) 2537 1787

3. APPROVALS

Table 7 provides a current list of statutory instruments in effect, including the date of grant of all consents, approvals and licenses.

Table 7
Oberon Quarry – Approvals, Leases and Licences

Approval/Lease/Licence	Issue / Approval Date	Expiry Date	Details / Comments
Development Consent (SSD_6333)	14/09/2015	20/08/2045	Consent for the Oberon Quarry Continuation Project granted by the (then) Minister for Planning.
Environment Protection Licence (No. 4442)	11/01/1994	Renewed Annually	Anniversary date 11 January. Current licence version dated 3 August 2020.
Water Access Licence (WAL) 34279	03/10/2012	Continuing	Fish River Water Source. Share component 2.0ML.
Water Supply Works Approval 80WA716304	04/10/2012	03/10/2025	Applies to WAL 34279.

4. OPERATIONS SUMMARY

4.1 CURRENT REPORTING PERIOD

Table 8 presents the material movements during previous and current reporting periods and provides the anticipated movements during the next reporting period. In accordance with *Condition 9* of *Schedule 2* of SSD_6333, the maximum daily product transport limit of 3 000t was not exceeded during the reporting period. A monthly summary of truck movements and product transported from the Quarry is provided as **Appendix 3**.

Table 8
Production Summary

Material	Approved limit (specify source)	Previous reporting period (actual)	This reporting period (actual)	Next reporting period (forecast)
Saleable Product[1]	400 000tpa (SSD_6333, Condition 8 of Schedule 2)	304 767	293 300 tonnes	350 000 tonnes
Note 1: Saleable product volumes represent product transported off site, with estimates based on weighbridge data for the reporting period.				
Source: Oberon Quarries Pty Ltd.				

Consistent with previous years, extraction activities during the current reporting period were undertaken using conventional drill and blast techniques and continued to target resource at multiple locations within the Extraction Area (see **Figure 3**). Resources were targeted at the northern ends of the Extraction Area during the reporting period in order to extract resources which meet product specifications and optimise resource recovery whilst also accounting for inherent variability of the basalt resource.

A total of ten production blasts were initiated during the current reporting period. The results of blast monitoring during the reporting period are discussed in Section 6.4.

During the reporting period, blasted rock was loaded into off-road rear dump trucks using an excavator and transported to the crushing and screening plant within the Processing Area for processing (see **Figure 2**). Product was stockpiled both within product stockpile bays within the Processing Area and on the Quarry floor prior to loading onto road registered trucks for transportation to markets in the Sydney and Central NSW Tablelands areas. As extraction activities during the reporting period did not involve an increase in the surface disturbance footprint of the Extraction Area, no management of overburden or interburden material was required during the reporting period.

No construction, exploration or land preparation activities were undertaken during the reporting period.

No new equipment or plant upgrades were installed at the Quarry during the reporting period.

With the exception of weed control through herbicide spraying and regular maintenance of water management structures, no rehabilitation activities were undertaken during the reporting period.

Environmental monitoring activities continued throughout the reporting period and included blasting, air quality, surface water, groundwater and ecological monitoring. The results of these monitoring programs are summarised in Section 6 and Section 7.

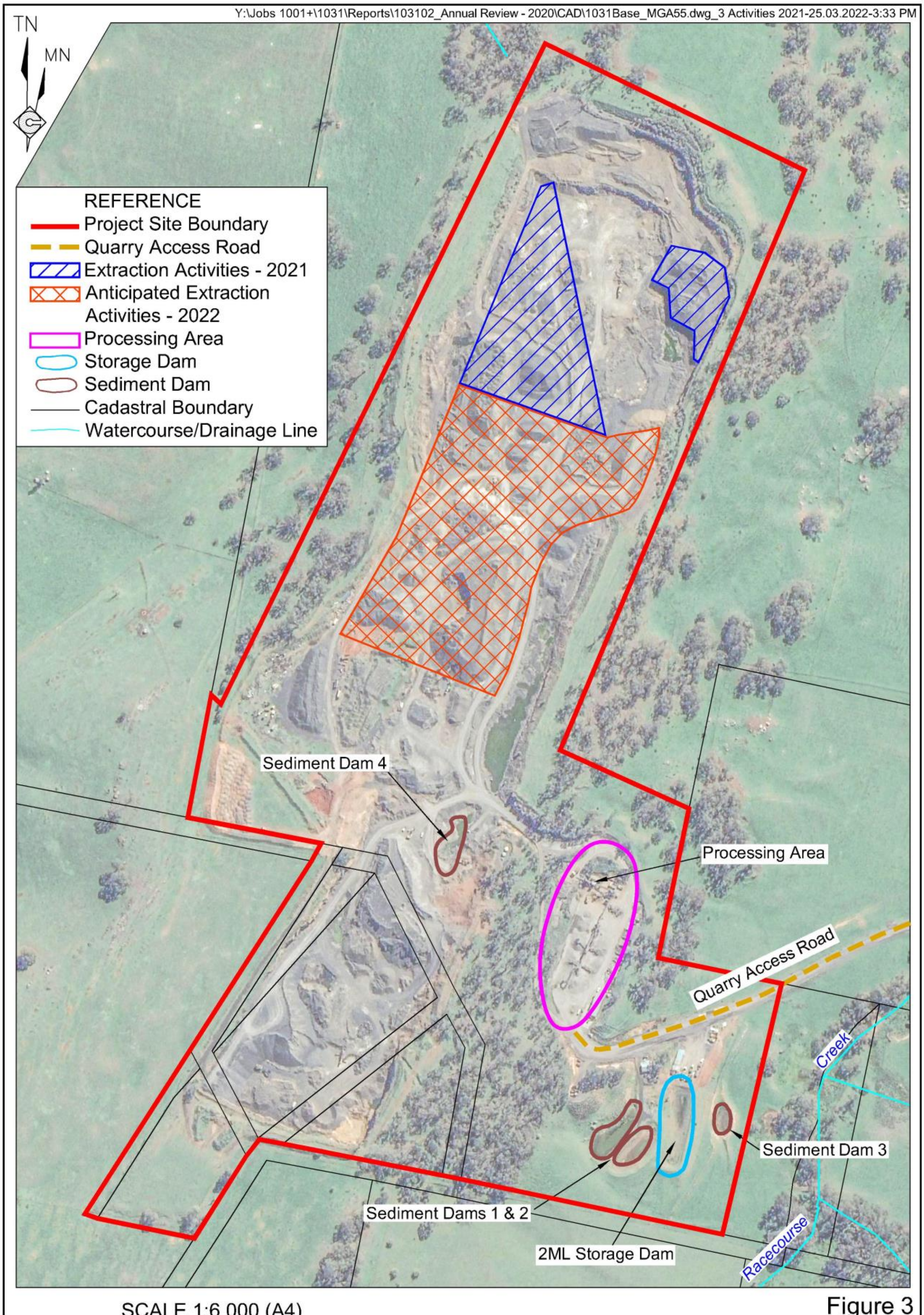


Figure 3
CURRENT AND ANTICIPATED EXTRACTION ACTIVITIES

4.2 NEXT REPORTING PERIOD

The activities proposed for the next reporting period will principally involve ongoing blasting, extraction, crushing and screening, stockpiling, product transport, environmental monitoring and maintenance activities. It is anticipated that extraction activities during the next reporting period will be concentrated within the central western portion of the approved Extraction Area (see **Figure 3**).

The Company does not anticipate that any construction, exploration, or land preparation works will be undertaken during the next reporting period. However, the Company notes that either a modification to the existing envelopment consent or a separate development consent may be sought during the next reporting period to permit expansion of the approved Extraction Area. The outcomes of any such application would be reported in the next Annual Review.

It is anticipated that opportunities for progressive rehabilitation will remain limited during the next reporting period due to the early stage of development within the Extraction Area. Rehabilitation works during the next reporting period will primarily relate to ongoing maintenance, erosion and sediment control, vegetation establishment and weed management at the Quarry.

5. ACTIONS REQUIRED FROM PREVIOUS ANNUAL REVIEW

The 2020 Annual Review was submitted to the Department of Planning, Industry and Environment (DPIE) via the NSW Planning Portal on 31 March 2021. A request for additional information was subsequently received from DPIE on 28 April 2021 which required that the 2020 Annual Review be revised to include:

- a discussion of a warning letter issued by DPIE regarding non-compliances with Condition 1 of Schedule 3 and Condition 21 of Schedule 3 of SSD-6333;
- a discussion of noise complaints made with regard to excessive truck braking; and
- a table presenting the status of the Company's response to recommendations provided in the latest Independent Environmental Audit.

These matters were addressed in a revised version of the 2020 Annual Review (Amendment A) which was submitted to DPIE on 17 June 2021.

No further feedback was received from DPIE or any other agency regarding the 2020 Annual Review. The 2020 Annual Review (Amendment A) was therefore considered to have satisfied the requirements of Condition 9 of Schedule 5 of SSD_6333.

6. ENVIRONMENTAL PERFORMANCE

6.1 SUMMARY OF ENVIRONMENTAL PERFORMANCE

A summary of environmental performance for the principal environmental aspects is provided in **Table 9**. Environmental monitoring locations are shown in **Figure 4**. Further detail regarding specific environmental aspects is also provided in the following subsections.

Table 9
Environmental Performance

Aspect	Approval criteria / EIS prediction	Performance during the reporting period	Trend/key management implications	Implemented/ proposed management actions
Noise	Condition 3 of Schedule 3 of SSD_6333 – approved noise limits range from 35dB($LA_{eq(15\ min)}$) to 45dB($LA1_{max}$).	No complaints.	Implies management measures are currently adequate.	No additional management action required.
Blasting	Condition 6 of Schedule 3 of SSD_6333 • Overpressure 115dB$_{(linear\ peak)}$ and max 120dB$_{(linear\ peak)}$ • Vibration 5mm/s and max 10mm/s	No complaints. One result above the lower airblast overpressure criterion (115dB(L)) recorded during the reporting period, however, no exceedances recorded at private residences not subject to a blasting agreement. All ten blasts were compliant with the upper airblast overpressure criteria (120dB(L)) during the current reporting period.	Site blasting laws have been reviewed to demonstrate suitability.	No additional management required.
Air Quality	Condition 10 of Schedule 3 of SSD_6333 • Annual Average – PM_{10} 30µg/m^3 – TSP 90µg/m^3 – deposited dust 2g/m^2/month (incremental) and 4g/m^2/month (cumulative) • 24-hour average – PM_{10} 50µg/m^3	No complaints. No exceedance of annual average deposited dust levels.	Implies management measures are currently adequate. No specific management implications as deposited dust results were within relevant criteria.	No additional management action required.
Biodiversity	Condition 24 of Schedule 3 of SSD_6333 requires the preparation and implementation of a Landscape and Rehabilitation Management Plan.	No complaints. Establishment and monitoring of residual vegetation plots to be undertaken between 3 and 5 years prior to the commencement of rehabilitation works (i.e. by 2023 at the earliest).	No specific management implications as progressive rehabilitation opportunities remain limited.	No additional management action required.
Heritage	No specific approval conditions.	No complaints. No heritage items or sites identified or disturbed during the reporting period.	No specific management actions were necessary.	No additional management action required.
Waste	Condition 28 of Schedule 3 of SSD_6333 requires waste minimisation, appropriate management and disposal, and management of sewage in accordance with EPL 4442.	No complaints. Operations were in accordance with identified waste management principles and priorities.	Implies management measures are currently adequate. No specific management implications.	No additional management action required.

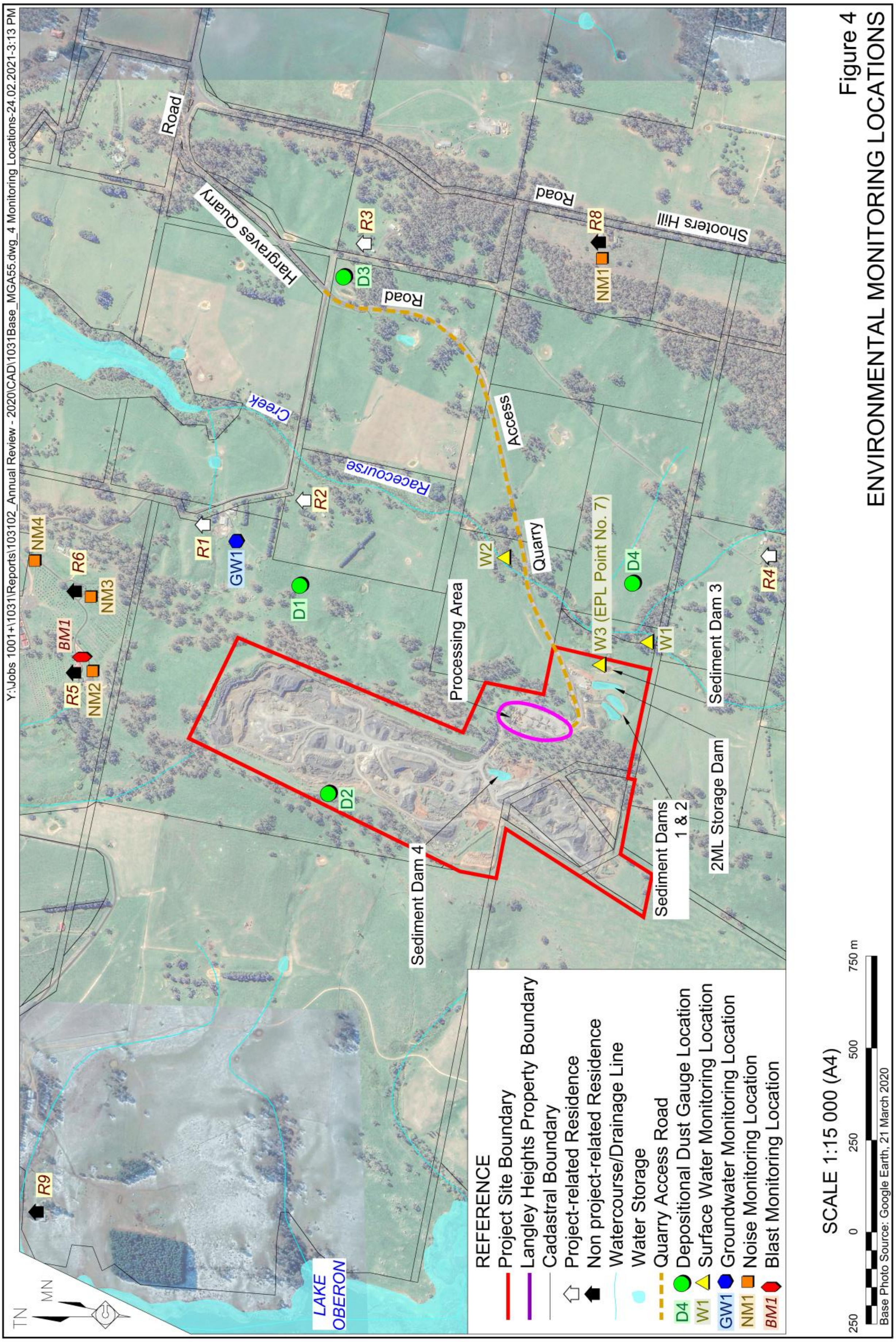


Figure 4
ENVIRONMENTAL MONITORING LOCATIONS

6.2 METEOROLOGICAL MONITORING

Meteorological data was obtained from the Bureau of Meteorology's (BOM) Oberon (Albion Street) Weather Station (Station No. 063063) located approximately 4.6km north-northeast of the Quarry. **Figure 5** presents seasonal and annual wind roses for the Quarry whilst **Table 10** provides the monthly temperature and rainfall data for the reporting period.

Table 10
Monthly Rainfall

Year		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Average Temperature (°C)														
2021	Maximum	25.6	24.8	20.0	18.7	13.2	9.2	9.5	15.5	14.3	16.1	16.3	23.3	17.2
	Minimum	9.8	11.4	8.9	4.4	1.1	0.6	0.4	2.6	3.2	5.5	7.0	11.1	5.5
Long Term Average[1]	Maximum	25.1	23.9	21.5	17.3	13.2	9.6	8.8	10.5	13.9	17.3	20.1	23.5	17.1
	Minimum	11.2	11.3	9.1	5.5	2.5	0.9	-0.3	0.4	2.4	4.9	6.9	9.1	5.4
Rainfall (mm)														
2021	Total	71	161.3	235.1	4.6	15.8	54.2	74.4		66.2	97	165.7	62.5	1007.8
	No. Days of Rain[3]	9	11	11	0	3	6	8	1	6	12	18	12	97
	Max Daily Rainfall	19.2	44.6	40.6	0.6	4.2	10.4	10.8	4.8	26	28.2	20.8	8.6	218.8
Long Term Average[2]	Total	79.6	62.2	67.5	56.7	59.4	77.7	70.0	74.4	66.9	77.6	71.6	74.4	835.7
	No. of Rain Days[3]	6.4	6.0	6.2	5.5	6.3	8.9	8.6	8.5	7.4	7.6	6.9	6.4	84.7
	Max Daily Rainfall	111.7	85.2	122.4	62.2	82.8	90.2	81.1	120.0	85.3	74.9	64.8	85.9	122.4

Note 1: Long-term average for period 1946 to 2021.
Note 2: Long-term average for period 1888-2021.
Note 3: No. days of rain ≥1mm.
Source: BOM Oberon (Albion Street) Weather Station (Station No. 063063).

During the reporting period winds dominated from the west, northwest and southwest during the winter, spring and summer seasonal periods whilst wind dominated from the east during the autumn period.

Total rainfall during the reporting period was 1007.8mm, representing a 20% increase in rainfall compared to the long term average.

6.3 NOISE

Environmental Management

Noise at the Quarry is managed in accordance with the approved Noise Management Plan. **Table 11** outlines the nominated noise criteria for the Quarry. Noise monitoring locations associated with the Quarry are shown on **Figure 4**.

In accordance with Condition 3 of Schedule 3 of SSD_6333, noise agreements were established between the Company and landowners (R5, R6 and R8 – see **Figure 4**) to permit exceedance of the noise criteria outlined in **Table 11** and blasting criteria outlined in Section 6.4. The Secretary was notified of these agreements on 25 January 2017 and the discontinuation of noise monitoring was approved by the Secretary on 2 February 2017. Additionally, the Company owns residences R1, R2, R3 and R4 (see **Figure 4**) and, as such, these are considered to be Project-related residences and noise monitoring is not required.

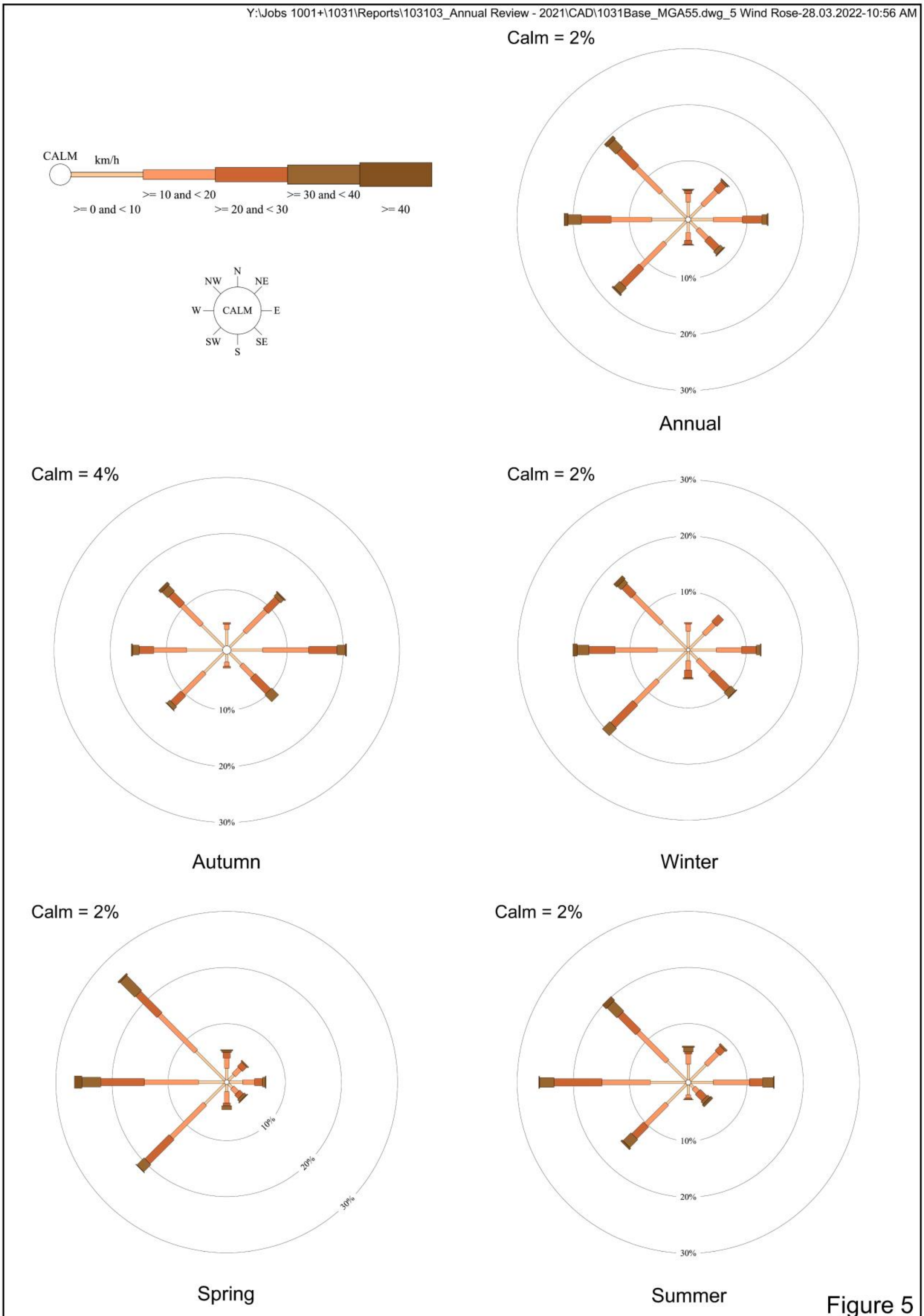


Figure 5
ANNUAL AND SEASONAL WIND ROSES

Source: Bureau of Meteorology - Station 063063 - 3pm (2 Jan 1965-11 August 2021)

Table 11
Oberon Quarry – Noise Criteria

Receiver	Day[1] / Evening[2]	Night[3]	
	dB $LA_{eq(15\ min)}$	dB $LA_{eq(15\ min)}$	dB $LA1_{(max)}$
All Privately-owned Residences	35[4]	35	45

Note 1: Day = the period from 7:00am to 6:00pm, Monday to Saturday, and 8:00am to 6:00pm on Sundays and Public Holidays.

Note 2: Evening = the period from 6:00pm to 10:00pm, all days.

Note 3: Night = the period 10:00om to 7:00am, Monday to Saturday, and 10:00pm to 8:00am on Sundays and Public Holidays

Note 4: A limit of 36 dB $LA_{eq(15\ min)}$ is specified under EPL 4442 for the day / evening period.

Source: Condition 3 of Schedule 3 of SSD_6333

Under the conditions of the Secretary's January 2017 approval, future noise monitoring at the Quarry will be undertaken in the event that either a noise-related complaint cannot be resolved by the Company or a landowner requests that monitoring be undertaken to assess compliance with the relevant noise criteria.

Environmental Performance

No noise-related complaints or landowner requests that noise monitoring be undertaken were received during the reporting period. Consequently, no noise monitoring was undertaken during the reporting period.

Reportable Incidents

No reportable noise incidents were recorded during the reporting period.

Further Improvements

No improvements relating to noise management are planned or considered necessary.

6.4 BLASTING

Environmental Management

Blasting and blast monitoring is undertaken at the Quarry in accordance with the approved Blast Management Plan. **Table 12** outlines the nominated blast impact assessment criteria for the Quarry.

Table 12
Oberon Quarry – Blasting Criteria

Receiver	Ground Vibration (mm/s)	Airblast Overpressure ($dB_{(Linear\ Peak)}$)	Allowable Exceedance
All Privately-owned Residences	10	120	0% of the total number of blasts over a 12-month period.
	5	115	5% of the total number of blasts over a 12-month period.

Source: Condition 6 of Schedule 3 of SSD_6333

A blasting agreement was established between the Company and the nearest private landowner (R5 and R6 – see **Figure 4**) in April 2018. The (then) Department of Environment and Planning was notified of the agreement on 17 April 2018. The blasting agreement was subsequently updated and renewed in January 2022 following advice from the EPA (**Appendix 4**). In accordance with Condition 6 of Schedule 3 of SSD_6333, this agreement:

- removes the requirement to monitor each blast event at the Quarry;
- indicates acceptance of blast noise and vibration levels which are 'higher' than those outlined under Condition 6 of Schedule 3 of SSD_6333; and
- removes the requirement to advise the landowner and relevant agencies of an exceedance recorded at this location.

The Company continued to undertake blast monitoring at the nearest residence (monitoring location BM1 – see **Figure 4**) to the north of the Quarry during the reporting period.

Environmental Performance

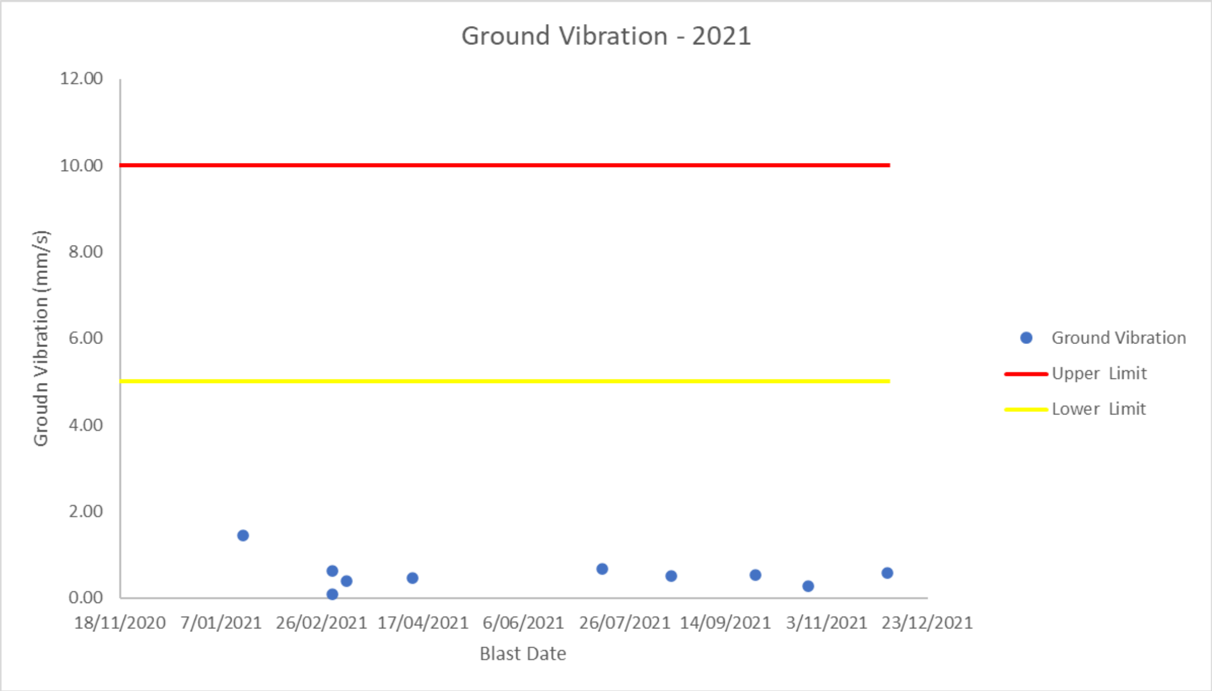
Table 13 and **Figure 6** present the results of production blast monitoring undertaken at the Quarry during the reporting period. In summary, a total of ten production blasts were undertaken during the reporting period, with one blast (i.e. 10% of total blasts during the reporting period) on 3 March 2021 (119.4dB(L)) exceeding the lower airblast overpressure criterion (115dB(L)).

Table 13
Oberon Quarry – Blast Monitoring Results – 2021

Monitoring Location[1]	Blast Date	Blast Time	Peak Ground Vibration (mm/s)	Peak Airblast Overpressure (dBL)	Compliant with Blasting Criteria	
					115dB(L)	120dB(L)
BM1	18/01/2021	12:17PM	1.45	107.00	Yes	Yes
BM1	3/03/2021	11:42AM	0.09	119.40	No	Yes
BM1	3/03/2021	11:56AM	0.623	104.9	Yes	Yes
BM1	10/03/2021	9:40AM	0.38	104.90	Yes	Yes
BM1	12/04/2021	2:15PM	0.46	108.00	Yes	Yes
BM1	15/07/2021	1:29PM	0.68	108.00	Yes	Yes
BM1	18/08/2021	10:58AM	0.52	105.50	Yes	Yes
BM1	29/09/2021	11:28PM	0.53	107.50	Yes	Yes
BM1	25/10/2021	10:59AM	0.28	103.50	Yes	Yes
BM1	3/12/2021	10:43AM	0.58	111.50	Yes	Yes

Note 1: See **Figure 4**.
Note 2: BLD - Below limit of detection - blast did not trigger blast monitoring at the monitoring location
Source: Oberon Quarries Pty Ltd.

Blast monitoring was undertaken at monitoring location BM1 (see **Figure 4**) during the reporting period. Monitoring location BM1 is located adjacent to residence R5 (approximately 370m north of the Extraction Area) and residence R6 (approximately 470m north-northeast of the Extraction Area). Residences R5 and R6 are subject to an existing blasting agreement with the Quarry which permits exceedances of the blasting criteria outlined under Condition 6 of Schedule 3 of SSD_6333 and removes the requirement for exceedances at this location to be reported as incidents.



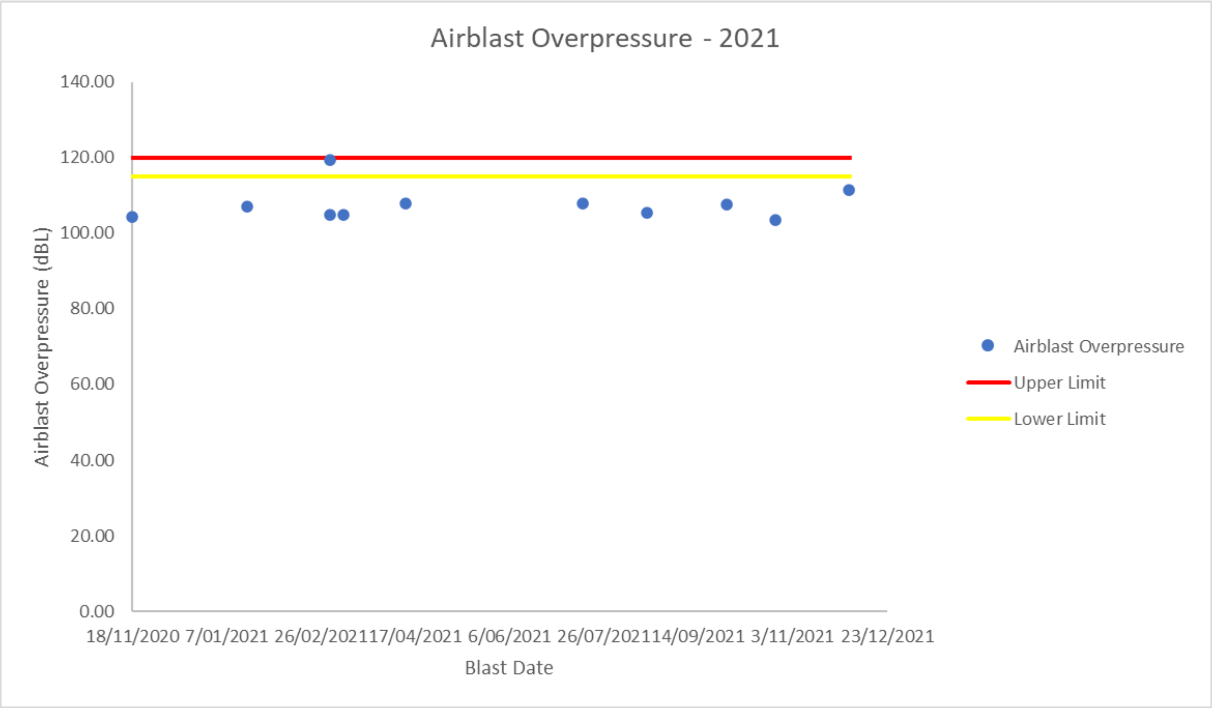


Figure 6
BLAST MONITORING RESULTS – 2021

Based on site blasting laws. it is not expected that the lower airblast overpressure criteria exceedance recorded at monitoring location BM1 during the reporting period would also have been recorded at any other privately-owned residences given that:

- the nearest privately-owned, non-Quarry related residences (R8 and R9) are located a minimum of approximately 1.3km from the Extraction Area boundary (i.e. at least an additional 930m further from the Extraction Area boundary compared to monitoring location BM1); and
- the recorded exceedance only marginally exceeded the lower airblast overpressure criteria (i.e. by 4.4dB(L) on 3 March 2021).

It is also noted that, as the Quarry has historically undertaken between three and 12 blasts per 12-month reporting period, a single blast which exceeds the lower airblast overpressure criterion of 115dB(L) will automatically represent an exceedance of the allowable exceedance level (i.e. 5% of the total number of blasts over a 12-month period) specified under Condition 6 of Schedule 3 of SSD_6333.

No rock popping blasts were undertaken during the reporting period.

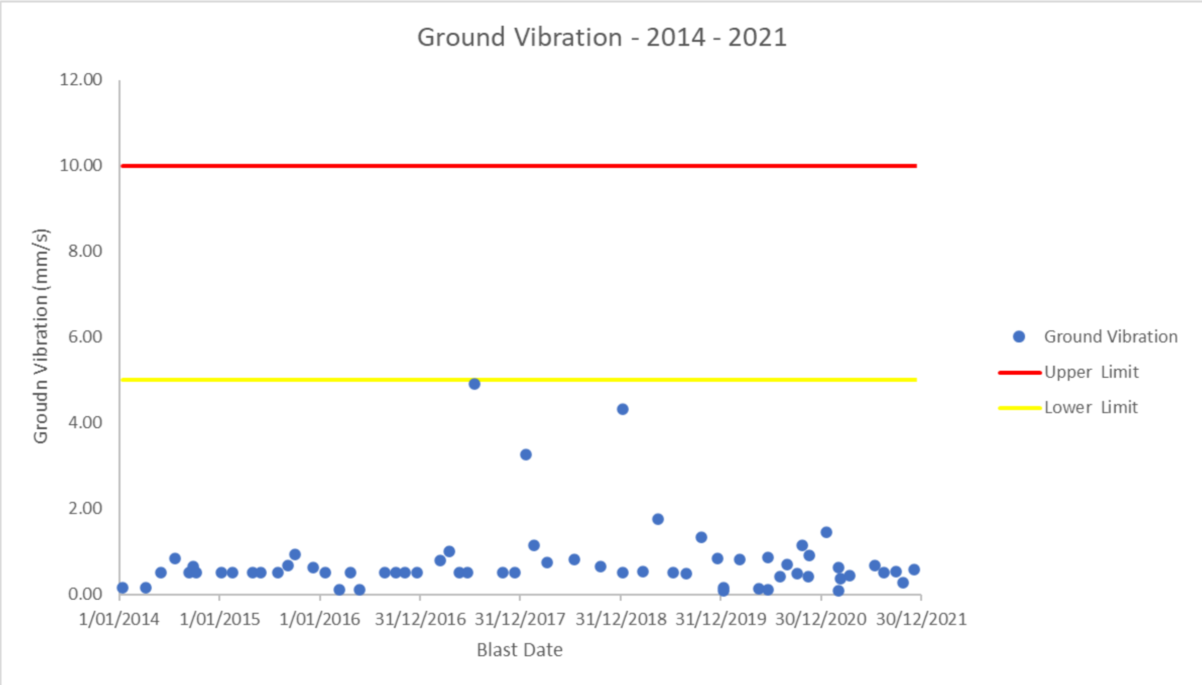
Figure 7 presents the results of blast monitoring undertaken at the Quarry between 2014 and 2021. No blasts undertaken at the Quarry between 2014 and 2021 have exceeded the 5mm/s criteria limit for ground vibration. In addition to the single exceedance recorded at monitoring location BM1 during the current reporting period, the lower airblast overpressure criterion of 115dB(L) has previously been exceeded by three blasts (117.9dB(L)) on 22 January 2018, (115.2dB(L)) on 19 June 2020, and (116.3dB(L)) on 3 August 2020. The upper airblast overpressure limit of 120dB(L) has previously only been exceeded by one blast (128.8dB(L)) on 19 July 2017.

Reportable Incidents

Whilst one exceedance of the lower airblast overpressure criterion (115dB(L)) was recorded during the reporting period, this exceedance was only recorded in the vicinity of residences subject to a blasting agreement. No reportable blasting incidents were recorded during the reporting period.

Further Improvements

The Company will review the feasibility and potential benefits of undertaking blast monitoring at an alternative location or at additional locations during the next reporting period in order to demonstrate compliance with the relevant blasting criteria, without he need to rely on site blasting law justifications, at the nearest privately-owned, non-Quarry related residences which are not subject to a blasting agreement (i.e. R8 and R9).



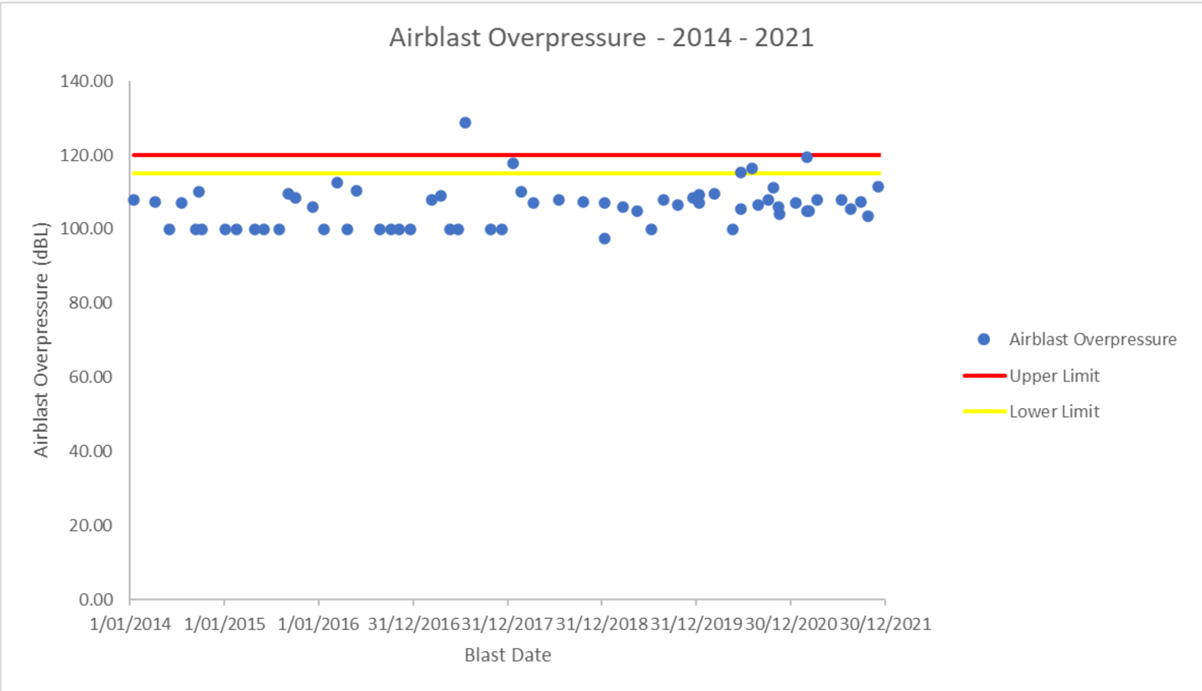


Figure 7
BLAST MONITORING RESULTS – 2014 to 2021

6.5 AIR QUALITY

Environmental Management

Management of air quality and air quality monitoring is undertaken at the Quarry in accordance with the approved Air Quality Management Plan. The air quality monitoring network includes four depositional dust gauges (D1 to D4) (see **Figure 4**) which measure depositional dust and are collected on a monthly basis. **Table 14** outlines the nominated air quality impact assessment criteria for the Quarry.

Table 14
Oberon Quarry – Air Quality Criteria

Pollutant	Averaging Period	Criterion	
Particulate Matter <10µm (PM_{10})	Annual	30µg/m³ [A, D]	
Particulate Matter <10µm (PM_{10})	24 Hour	50µg/m³ [B]	
Total Suspended Particulates (TSP)	Annual	90µg/m³ [A, D]	
Deposited Dust [C]	Annual	2g/m²/month [B]	4g/m²/month [A, D]

Note A: Cumulative impact (i.e. increase in concentrations due to the development plus background concentrations due to all other sources).
Note B: Incremental impact (i.e. increase in concentrations due to the development alone, with zero allowable exceedances of the criteria over the life of the development).
Note C: Deposited dust is assessed as insoluble solids in accordance with *AS/NZS 3580.10.1:2003: Methods for Sampling and Analysis of Ambient air – Determination of Particulate Matter – Deposited Matter – Gravimetric Method*.
Note D: Excludes extraordinary events such as bushfires, prescribed burning, dust storms, sea fog, fire incidents or any other activity agreed by the Secretary.
Source: Condition 10 of Schedule 3 of SSD_6333

In accordance with the approved Air Quality Management Plan, compliance with the relevant TSP and PM_{10} criteria is assumed and will only be monitored in the event that a complaint regarding TSP or PM_{10} levels is received at the Quarry.

Environmental Performance

Table 15 presents the results of depositional dust gauge monitoring during the reporting period. In summary, deposited dust levels (total solids) ranged between 0.48g/m²/month (D2 – 18/08/2021 to 15/09/2021) and 3.95g/m²/month (D4 – 24/03/2021 to 21/04/2021) at all monitoring locations during the reporting period. No exceedances of the cumulative deposited dust criterion value (4g/m²/month) were recorded at any monitoring location during the reporting period.

Table 15
Oberon Quarry - Depositional Dust Monitoring Results - 2021

Sample Site	No. Samples Required	No. samples collected and analysed	Minimum Solids[1] (g/m²/month)	Maximum Solids[1] (g/m²/month)	Annual Average Solids[1] (g/m²/month)
D1	12	12	1.96	3.81	2.97
D2	12	12	0.48	3.91	2.31
D3	12	12	0.72	3.60	1.79
D4	12	12	0.59	3.95	2.72

Note 1: Values reported represent total solids (i.e. comprising both soluble and insoluble solids).
Source: Oberon Quarries Pty Ltd

Figure 8 depicts the rolling annual average monthly dust deposition rates recorded for each of the four depositional dust gauges during the reporting period. In summary, the rolling annual average monthly dust deposition rates for the reporting period ranged between 1.79g/m^2/month (D3) and 2.97g/m^2/month (D1), remaining below the cumulative deposited dust criterion value of 4g/m^2/month.

It is noted that dust measurement for the month of July 2021 are missing for monitoring locations D1 to D4. Results for this period are unavailable due to regional lockdowns associated with the COVID-19 pandemic which prevented collection and transportation of samples to the lab during July 2021. Additionally, samples from monitoring location D1 in February and August 2021 and monitoring location D4 in August 2021 were not analysed at a laboratory. These samples could not be analysed as the sample jars froze and broke under freezing ambient temperatures following collection and prior to despatch.

It is not anticipated that the missing samples would have significantly altered the direction of trend for the deposited dust monitoring results, and it is expected that the trend would remain below the 4g/m^2/month criteria should samples have been tested.

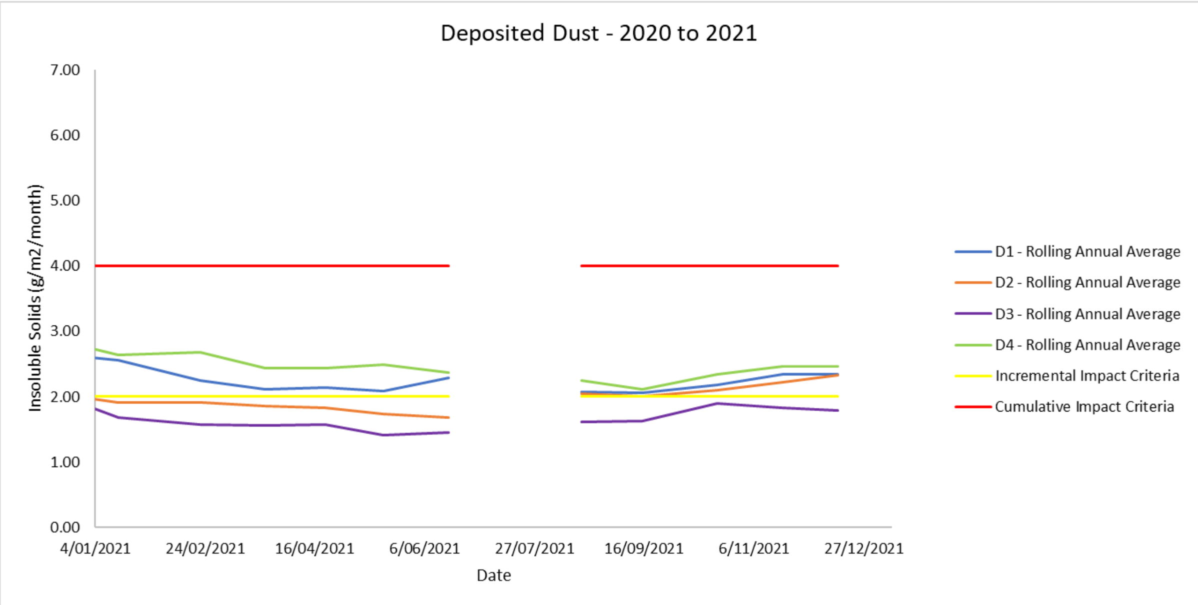


Figure 8
DEPOSITED DUST MONITORING RESULTS – 2021

Figure 9 depicts the annual average monthly dust deposition rates recorded at the Quarry since the commencement of air quality monitoring in 2012. Results recorded during the reporting period indicate an increase in deposited dust levels since mid-2016. As these elevated deposited dust levels have been recorded across all monitoring locations, this likely reflects increases in dust levels associated with regional drought conditions in 2018 and 2019 as well as bushfire events in late 2019 and early 2020.

In addition to the current reporting period, historic rolling annual average deposited dust levels have typically remained below the cumulative impact criteria limit of 4g/m^2/month, although one prolonged period of elevated deposited dust levels was recorded at monitoring location D1 between May 2015 and July 2016. This peak was primarily associated with two elevated deposited dust measurements of 19.8g/m^2/month and 26.3g/m^2/month recorded at monitoring location D1 in May 2015 and September 2015 respectively. These results were attributed to non-Quarry-related activities undertaken in the vicinity of monitoring location D1.

Reportable Incidents

No reportable air quality incidents were recorded during the 2021 Annual Review reporting period.

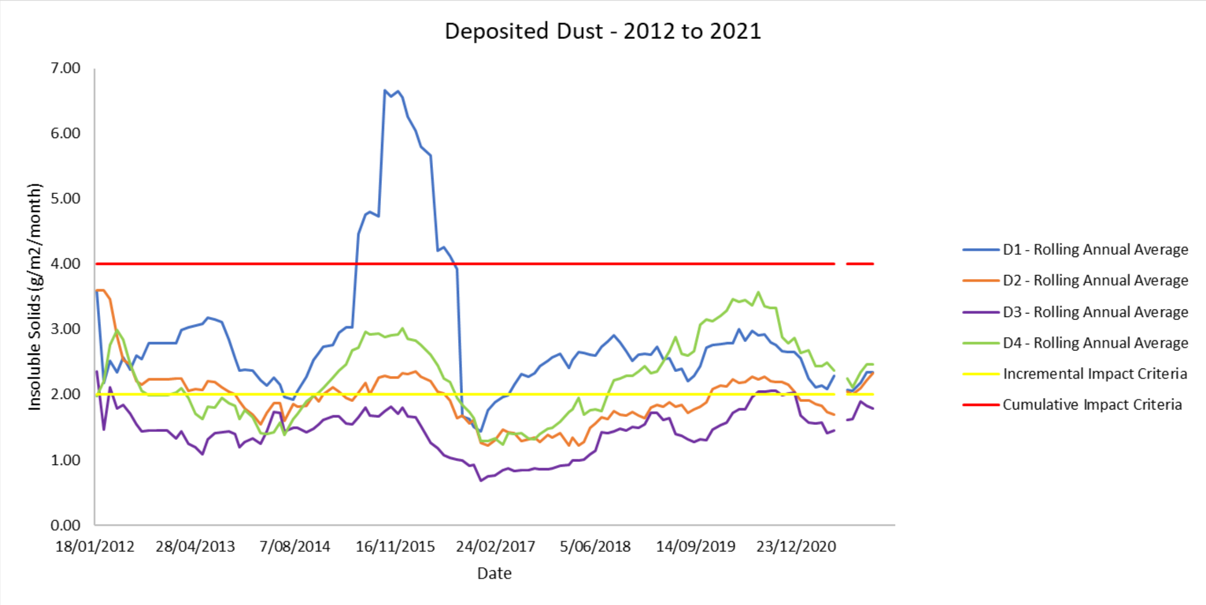


Figure 9
DEPOSITED DUST MONITORING RESULTS – 2012 to 2021

Further Improvements

No improvements relating to air quality management are planned or considered necessary.

6.6 BIODIVERSITY

Approval to disturb vegetation occupying the footprint of the Extraction Area was granted under the previous development consent (DA 92/164). The ecological assessment undertaken to support the 2015 *Environmental Impact Statement* for the *Proposed Extended Life of Operations and Development Changes to Oberon Quarry* noted that additional disturbance associated with the expansion of the Extraction Area would result in minor ecological impacts associated with disturbance of approximately 1ha of vegetated land and 0.5ha of cleared land.

As no significant or ongoing impacts on threatened species or ecological communities were predicted, no ecological monitoring is undertaken at the Quarry.

As noted in the approved Landscape and Rehabilitation Management Plan for the Quarry, the commencement of rehabilitation works will only occur following the extraction of the first and second benches and the construction of the final landform. Based on projected extraction rates, it is anticipated that significant rehabilitation works will commence in 2028.

Following advice received from the Quarry's ecology consultant during the preparation of the approved Landscape and Rehabilitation Management Plan, the establishment and monitoring of residual vegetation monitoring plots (i.e. analogue sites) required to assess rehabilitation performance will be undertaken between three and five years prior to the commencement of rehabilitation works (i.e. by 2023 at the earliest).

Reportable Incidents

No reportable biodiversity-related incidents were recorded during the reporting period.

Further Improvements

No improvements relating to biodiversity are currently planned or considered necessary.

6.7 HERITAGE

No activities associated with either Aboriginal heritage or non-Aboriginal heritage were undertaken during the reporting period. No Aboriginal sites or items of heritage significance were encountered at the Quarry during the reporting period.

Reportable Incidents and Further Improvements

No reportable heritage-related incidents were recorded during the 2021 reporting period and no further improvements are currently considered necessary.

6.8 WASTE

The Quarry operates in accordance with the following waste minimisation principles and priorities.

1. Waste avoidance and reduction at the source
2. Waste re-use
3. Waste recycling
4. Waste removal and disposal off site (waste that cannot be re-used or recycled)

The principal waste minimisation measure employed at the Quarry is an emphasis on cleaner production and the segregation, storage and disposal of waste to permit efficient re-use and recycling where possible. Waste generated by on site Quarry personnel is collected in recycling bins and general waste bins before being collected and disposed of at a licenced landfill facility. It is estimated that waste generated by the Quarry and disposed of off site is equivalent to a total of less than 10t per year.

Collection and disposal of industrial waste is undertaken as required. A total of 13.7t of steel was collected and removed from the site for recycling during the reporting period.

The Quarry has approval to operate a pump out sewage system, with sewage generated on site being directed to the septic system and pumped out by a licensed waste collection and disposal contractor as required.

A review of waste management measures employed at the Quarry, conducted in support of the 2019 Independent Environmental Audit of the Quarry, highlighted the absence of a formal waste minimisation procedure at the Quarry. In response to this, the Company committed to reviewing the feasibility of preparing and implementing a formal waste management plan during the next reporting period. During the reporting period and following this review, it was determined that a formal waste management plan would not represent a significant improvement compared to existing site management practices due to the limited volumes of waste produced at the Quarry.

7. WATER MANAGEMENT

Water management at the Quarry is undertaken in accordance with the approved Water Management Plan (version dated August 2017).

The Extraction Area occupies the northern portion of the basalt plateau known as Racecourse Hill which is elevated approximately 40m above the adjacent Processing Area. This locally elevated position limits the potential catchment area upslope of and adjacent to the Extraction Area. Grassed topsoil bunds surround the perimeter of the Extraction Area and serve to divert any runoff from surrounding areas away from the Extraction Area and other areas of disturbance.

Potentially sediment laden water is captured by a series of catch drains which have been established within the perimeter of disturbed areas at the Quarry. Catch drains are grassed to prevent erosion and include rock weirs at regular intervals to reduce flow velocity and promote sediment capture. Runoff within the Extraction Area is controlled by a combination of low berms, extracted areas and pipes which divert water to Sediment Dam 4 and the Quarry's dirty water management system.

Flow controls have been constructed to ensure that both the Extraction Area and Processing Area act as detention basins during periods of significant rainfall. In total, the water management system has a capacity of approximately 8.15ML with an additional 33.8ML of surcharge capacity provided by the Extraction Area and sediment dams. Once entrained sediment has settled out of suspension in the sediment dams, water is discharged to a 100m grassed level spreader located approximately 120m upslope of and parallel to Racecourse Creek.

7.1 WATER TAKE AND STORAGE

Table 16 lists the capacities of the four water storage areas at the Quarry. The water storage system at the Quarry provides capacity to contain in excess of a 1 in 100-year, 24-hour rainfall event (154mm). Stored water is utilised for dust suppression on site, with an additional two 11kL water tanks providing a contingency water supply during prolonged dry periods. No discharge from Sediment Dam 3 or the 2ML Storage Dam occurred during the reporting period. No discharge from the 2ML storage dam has been recorded over the life of the Quarry.

Table 16
Quarry Water Storages

Water Storage	Storage Volume (ML)	Surcharge Volume (ML)
Sediment Dam 1	0.89	0.80
Sediment Dam 2	0.95	0.80
Sediment Dam 3	0.21	0
Sediment Dam 4 / Extraction Area Floor	4.10	32.00+
Storage Dam	2.00	0.00 – 2.00
Total	**8.15**	**33.60+**
Source: Oberon Quarries Pty Ltd – Water Management Plan (version dated August 2017)		

The Company holds WAL 3429 which permits extraction of up to 2ML per year from the Fish River Water Source. No water was extracted under this licence during the reporting period.

7.2 SURFACE WATER

Environmental Management

Monitoring of surface water is undertaken monthly at monitoring locations W1 (Racecourse Creek – Upstream) and W2 (Racecourse Creek – Downstream) and on discharge from monitoring location W3 (EPL Monitoring Point 3) at the discharge pipe from Sediment Dam 3.

Table 17 presents the trigger values for surface water quality monitoring.

Table 17
Surface Water Quality – Trigger Levels

Pollutant	Trigger Level	
	W1 and W2	**W3[1]**
pH	>8.5	<6.5 or >8.5
Oil and Grease (mg/L)	>5	>10
Total Suspended Solids[2] (mg/L)	-	>50
Electrical Conductivity (µS/cm)	>300	-
Turbidity (NTU)	>450	-
Total Nitrogen[3] (mg/L)	>4.5	-
Total Phosphorous (mg/L)	>5.0	-
Note 1: W3 = EPL Monitoring Point 7. Note 2: Monitored as non-filterable residue (NFR). Note 3: Total Kjeldahl Nitrogen (TKN).		
Source: EPL 4442 and Oberon Quarried Pty Ltd – Water Management Plan (version dated August 2017)		

In addition to water quality monitoring, the following control measures are employed to ensure an appropriate level of protection to surface water within and surrounding the Quarry.

- Minimal disturbance and progressive rehabilitation as permitted.
- Runoff source separation in order to separate water of differing quality (i.e. clean and potentially sediment laden).
- Collection and storage of potentially sediment laden water for dust suppression and/or settlement prior to discharge.

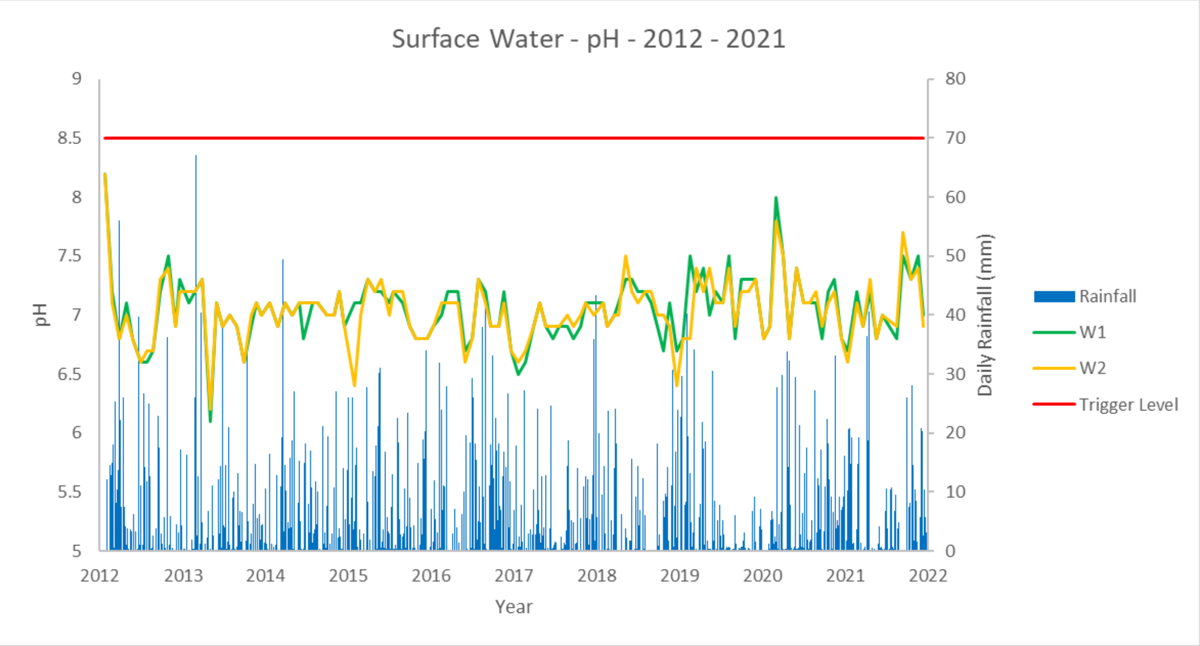
In addition to these measures, ad hoc. informal inspections of drainage channels and structures were undertaken throughout the reporting period. No stabilisation or remedial works were required.

Environmental Performance

Surface water monitoring locations W1 and W2 were sampled a total of 11 times during the reporting period. No surface water samples were collected during July 2021 due to travel restrictions associated with the COVID-19 pandemic which prevented monitoring personnel from accessing the Quarry and delivering samples to the laboratory at this time.

Table 18 provides a summary of water quality monitoring results during the reporting period. In summary, no samples exceeded the relevant trigger levels at either monitoring location during the reporting period. Monitoring location W3 was not sampled during the reporting period as no discharge was planned or occurred.

Figures 10 to **13** presents the historic surface water quality monitoring results for the Quarry. In summary, no exceedances of the relevant trigger levels have been recorded since the commencement of monitoring.



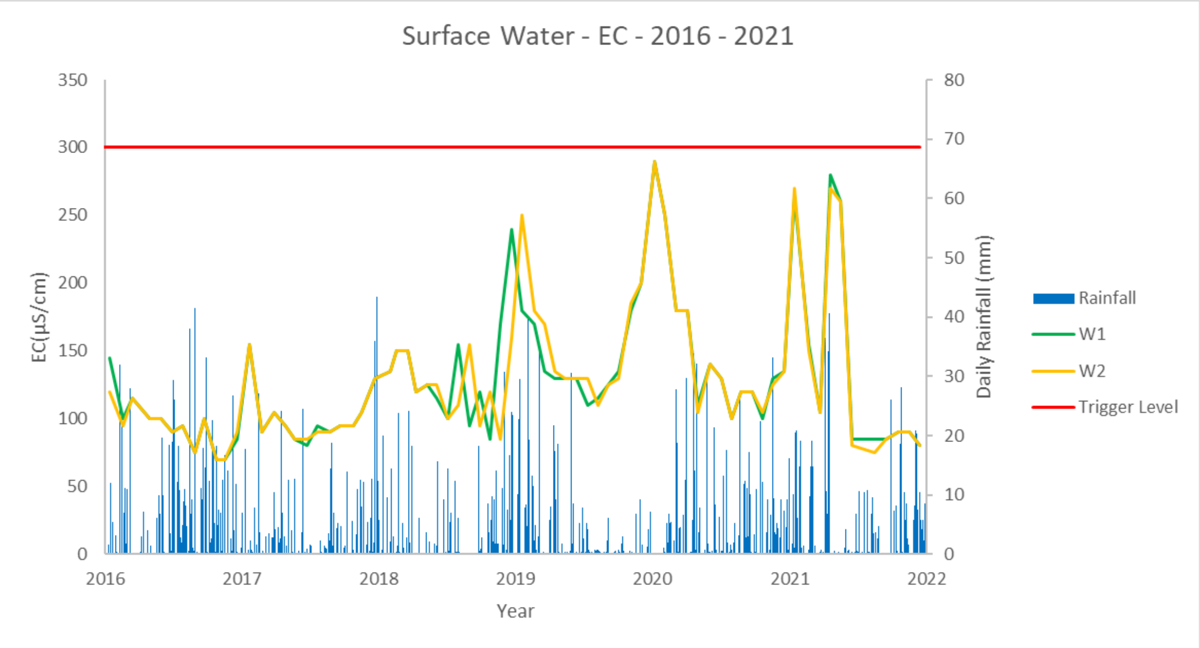
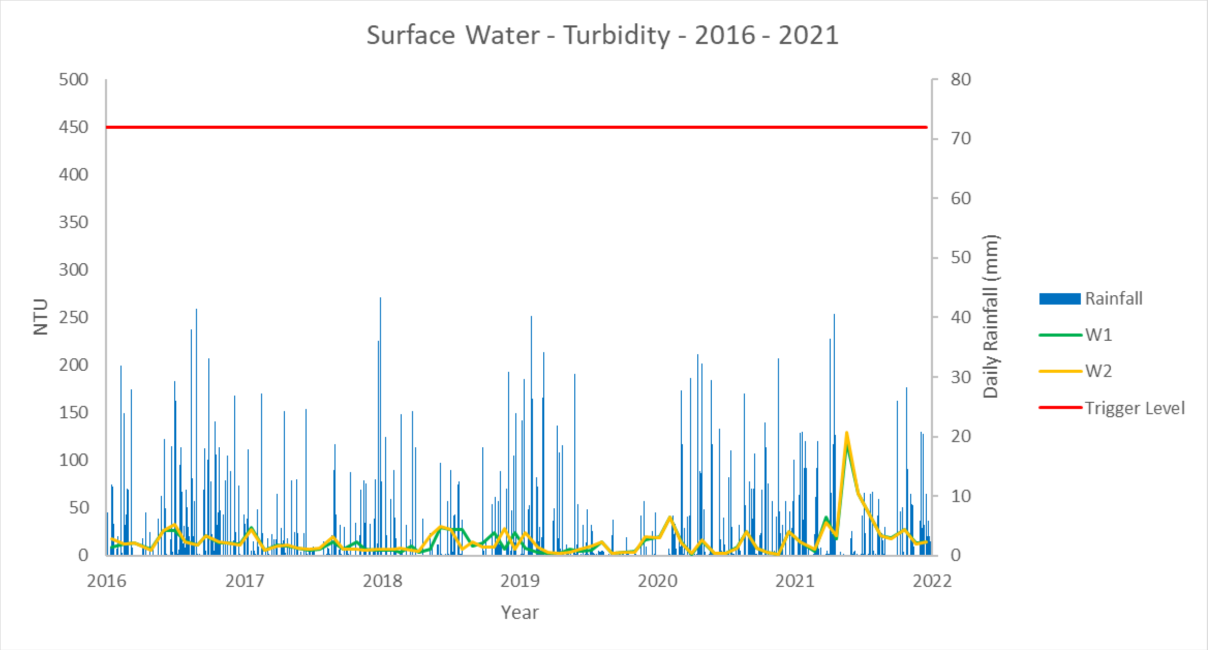


Figure 10
SURFACE WATER MONITORING RESULTS – PH AND EC



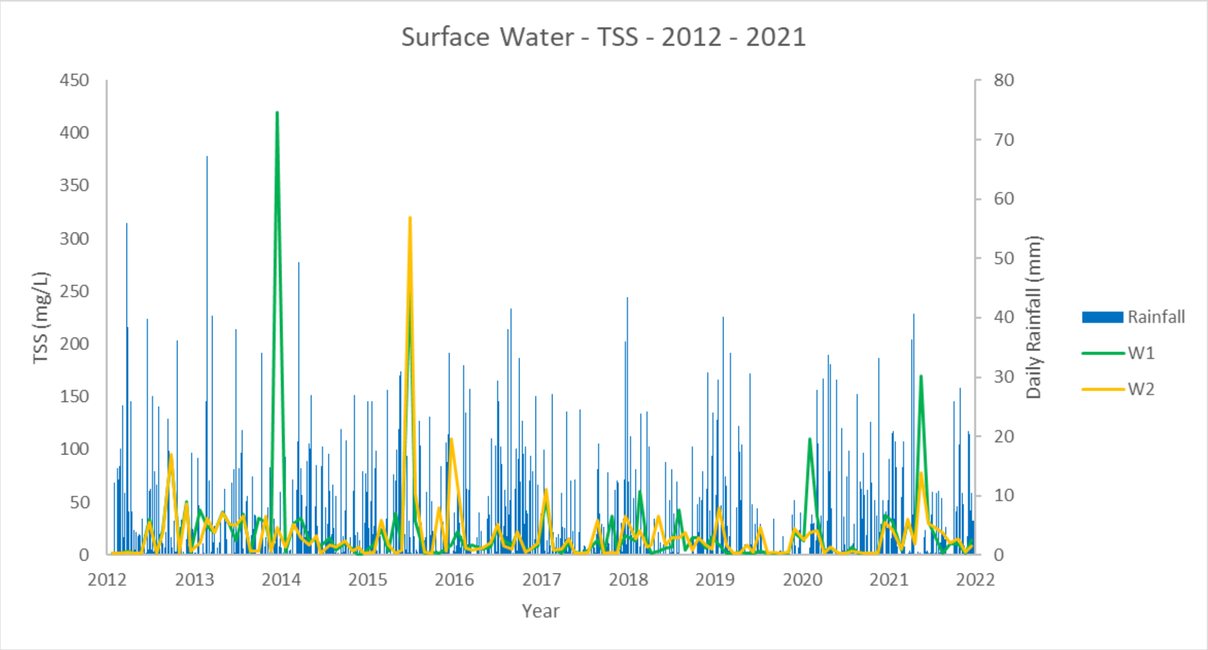
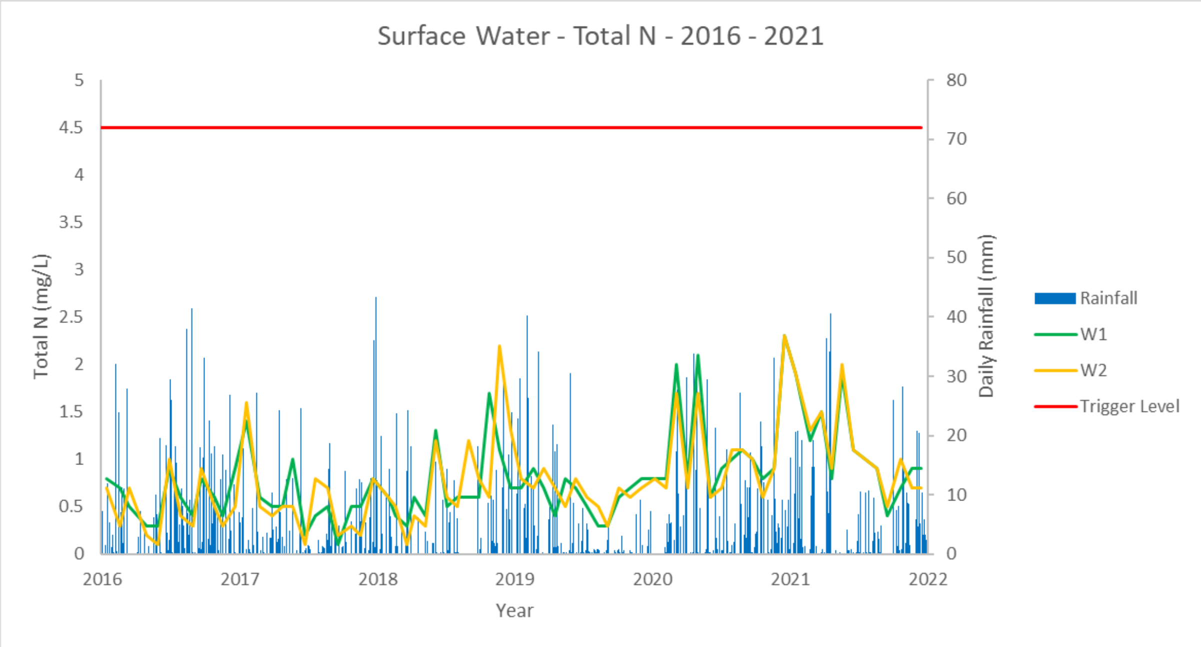


Figure 11
SURFACE WATER MONITORING RESULTS – TURBIDITY AND TSS



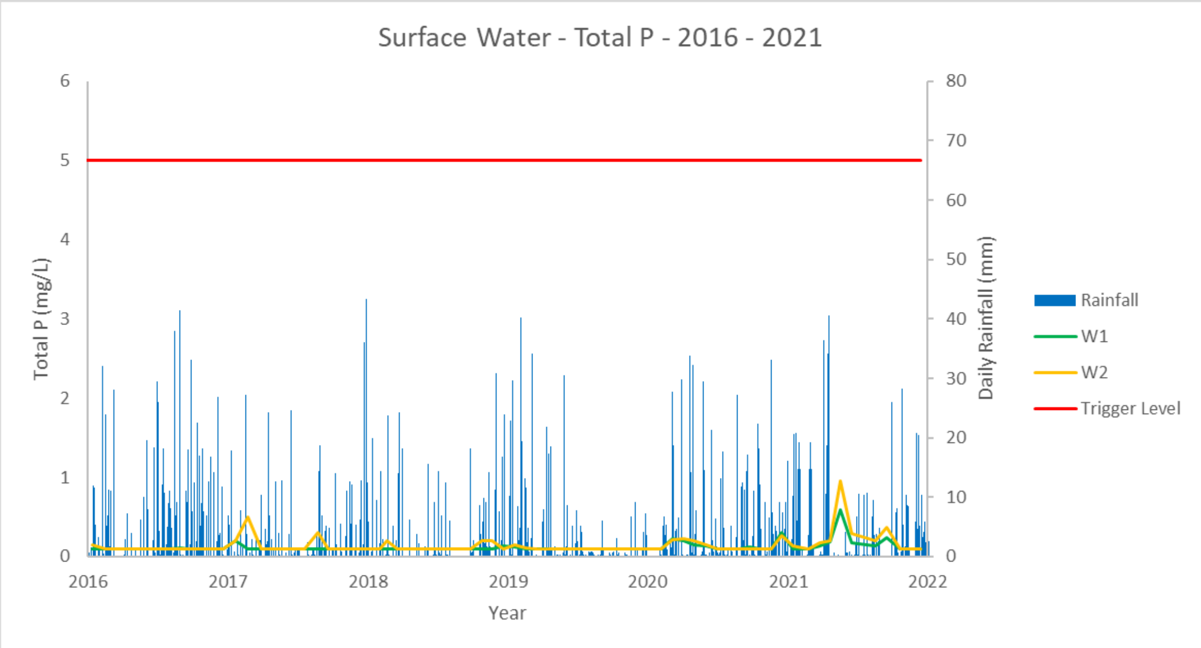


Figure 12
SURFACE WATER MONITORING RESULTS – TOTAL N AND TOTAL P

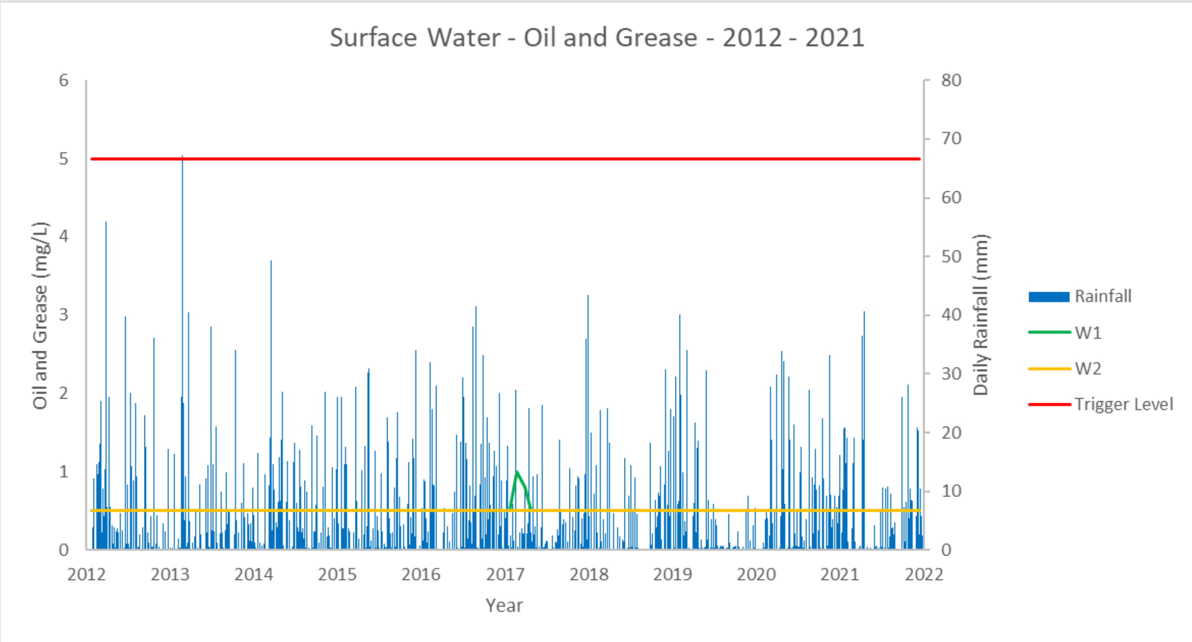


Figure 13
SURFACE WATER MONITORING RESULTS – OIL AND GREASE

Table 18
Summary[1, 2] of Surface Water Quality Monitoring Results – 2021

Location	No. Samples	pH	EC (µS/cm)	NTU	TSS (mg/L)	TKN (mg/L)	Total P (mg/L)	Oil and Grease (mg/L)
W1	11	6.7 – 7.5 (7.1)	80 – 280 (143.6)	5 – 120 (32.4)	2 – 170 (29.5)	0.4 – 1.9 (1.1)	0.1 – 0.59 (0.2)	0.5 – 0.5 (0.5)
W2	11	6.6 – 7.7 (7.1)	75 – 270 (141.4)	6.8 – 130 (33.3)	3 – 78 (22.1)	0.5 – 2.0 (1.1)	0.1 – 0.95 (0.2)	0.5 – 0.5 (0.5)

Note 1: Values reflect the minimum, maximum and mean (bracketed) values for each parameter during the reporting period.
Note 2: Values have been included as the limit of detection (LOD) value where they were recorded as being below this value.
Source: Oberon Quarries Pty Ltd

pH

Measurements of pH during reporting period ranged between 6.7 and 7.7, with all measurements being below the applicable trigger level (>8.5). Results for W1 (upstream) and W2 (downstream) continued to display little variation between the two locations (**Figure 10**). Results for the reporting period remained within historical levels and have remained relatively stable since 2012 with no significant trend evident.

Electrical Conductivity

Measurements of EC during the reporting period reached a high of 280µS/cm (W1) in April 2021 and 270µS/cm (W2) in January 2021, before dropping to a measurement of 260µS/cm and 150µS/cm respectively the following month (**Figure 10**). Whilst these EC measurements represent the higher end of values recorded at the Quarry, they remain well below the relevant trigger level of 300µS/cm. These measurements coincide with dry periods experienced at the Quarry during 2020 and early 2021 as a result of regional drought conditions. Less pronounced seasonal trends have previously been identified for EC and it is possible that regional drought conditions have served to enhance seasonal influences during the reporting period.

Turbidity

Turbidity measurements during the reporting period ranged between 5.0 NTU and 130 NTU, with both monitoring locations displaying similar ranges (**Figure 11**). These results are within the historical range recorded at the Quarry since 2016 and remain well below the relevant trigger value of 450 NTU.

Total Suspended Solids

Measurements of TSS during the reporting period ranged between 2mg/L and 170mg/L, with monitoring location W1 recording a higher maximum value (170mg/L) and higher average value (29.5mg/L) compared to upstream location W2 (maximum of 78mg/L and average of 22.1mg/L) (**Figure 11**). As there has been no discharge of sediment laden water from the Quarry, the increase in TSS concentration between these sites is attributed to surrounding, non-Quarry related land uses. All values recorded during the reporting period were consistent with historical ranges recorded since 2012 with no long-term trend evident.

Total Nitrogen

Total nitrogen (Total Kjeldahl Nitrogen or TKN) measurements during the reporting period ranged between 0.4mg/L and 2.0mg/L, with little variability apparent between the two monitoring locations (**Figure 12**). These values remain well below the relevant trigger level of 4.5mg/L, were within historical ranges recorded since 2016 and displayed no significant trend.

Total Phosphorous

Measurements of total phosphorous during the reporting period ranged between 0.1mg/L and 0.95mg/L, with little variability evident between the two monitoring locations (**Figure 12**). These concentrations remained well below the relevant trigger level of 5mg/L and are consistent with relatively stable measurements recorded since 2016.

Oil and Grease

All oil and grease measurements during the reporting period were below the limit of detection value (i.e. <0.5mg/L) (**Figure 13**). These results are consistent with historical values, with measurements in February 2017 (1mg/L) and March 2017 (0.8mg/L) at monitoring location W1 remaining the only times samples have exceeded 0.5mg/L.

Reportable Incidents

No reportable surface water-related incidents were recorded during the reporting period.

Further Improvements

No improvements relating to surface water management are planned or considered necessary.

7.3 GROUNDWATER

Environmental Management

Monitoring of surface water is undertaken monthly at monitoring location GW1 (see **Figure 4**) in accordance with the approved Water Management Plan for the Quarry. Monitoring location GW1 represents a spring fed dam adjacent to the 'Langley Heights' residence (project-related residence R1). The spring fed dam is located on Racecourse Hill downslope of the Quarry within a Tertiary gravel layer situated between the target basalt resource layer and an underlying layer of less pervious granitic material.

As groundwater interception is not anticipated until extraction progresses to the lower bench, groundwater inflows at the Quarry are assessed through observations and visual inspections which note the presence of water within the Extraction Area. Once interception of groundwater occurs, it is anticipated that groundwater inflow will be less than 2ML per year.

Samples collected at GW1 during the reporting period were analysed for pH and EC. **Table 19** presents the trigger values for groundwater quality monitoring.

Table 19
Groundwater Trigger Values

Pollutant	Trigger Value
pH	>9.2
Electrical Conductivity (µS/cm)	>450
Source: Oberon Quarries Pty Ltd – Water Management Plan (version dated August 2017)	

Environmental Performance

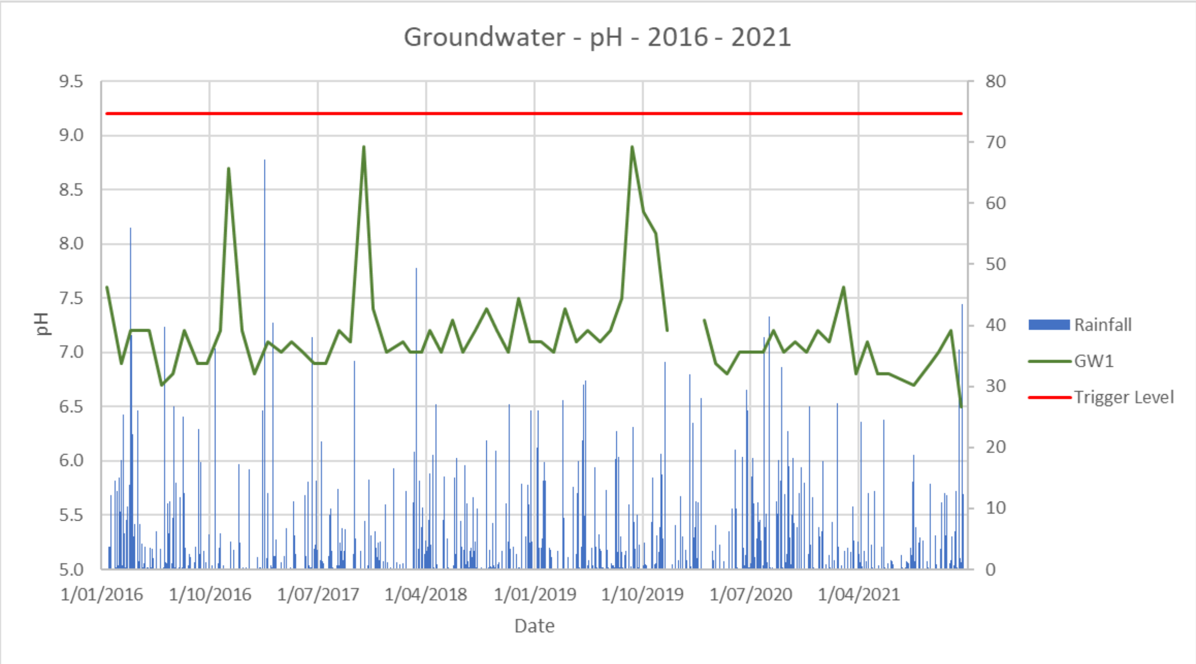
Groundwater monitoring location GW1 was sampled a total of 11 times during the reporting period, with no samples collected during July 2021 due to regional lockdowns associated with the COVID-19 pandemic which prevented the collection and transportation of samples to the lab for analysis. **Table 20** provides an overview of groundwater quality monitoring results during the reporting period. In summary, no pH or EC measurements exceeded the relevant trigger values during the reporting period. **Figure 14** presents the historic groundwater quality monitoring results for the Quarry.

Table 20
Groundwater Monitoring Results[1] – 2021

Location[2]	No. Samples	pH	EC (uS/cm)
GW1	11	6.5 – 7.6 (7.0)	120 – 280 (230.9)
Note 1: Values reflect the minimum, maximum and mean (bracketed) values for each parameter during the reporting period. Note 2: See **Figure 4.**			
Source: Oberon Quarries Pty Ltd			

pH

Measurements of groundwater pH ranged between 6.5 and 7.6 during the reporting period (**Figure 14**). However, no values exceeded the relevant trigger level (9.2). Measurements of pH since 2016 indicate a slight trend of increasing pH, although pH measurements during the current reporting period indicate a return to neutral values.



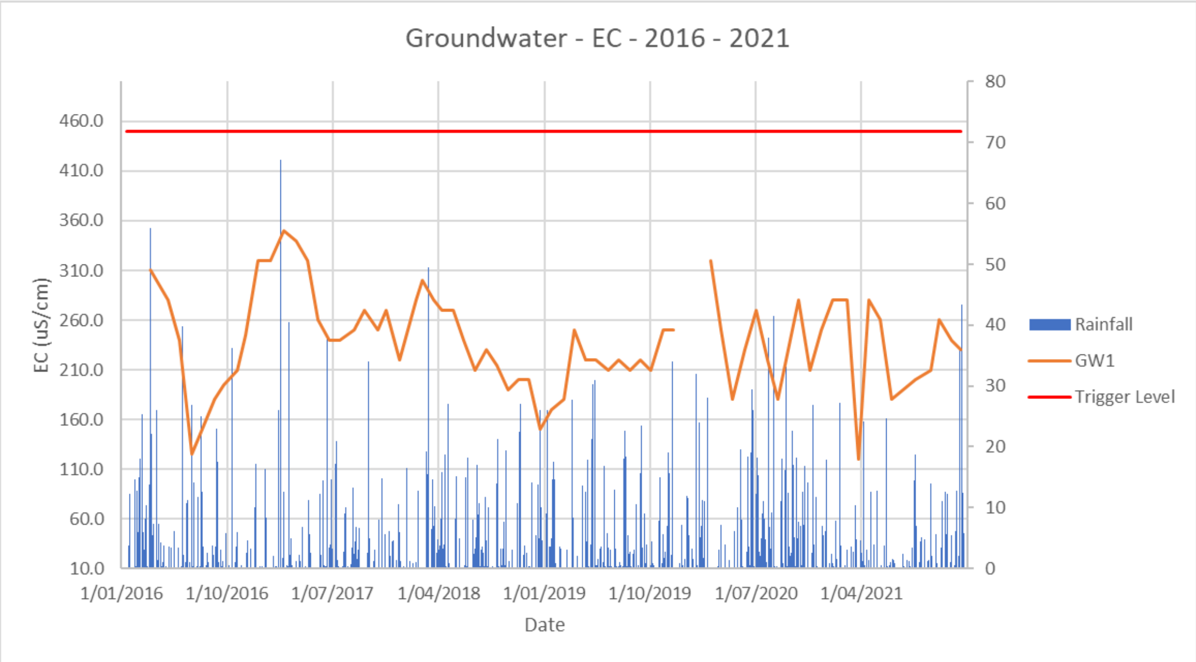


Figure 14
GROUNDWATER MONITORING – 2016 to 2021

Electrical Conductivity

Measurements of groundwater EC ranged between 120µS/cm and 280µS/cm during the reporting period and remained well below the trigger level of 450µS/cm (**Figure 14**). Values recorded during the reporting period remained consistent with historical ranges recorded since 2016, although significant variability between sampling rounds was evident.

Variability in recorded ECD levels is likely attributable to impacts associated with dry conditions experienced during early 2021 followed by significant rainfall events during the reporting period. As with previous groundwater monitoring results, results during the reporting period indicated an increase in groundwater EC following significant periods of no rainfall.

Reportable Incidents

No reportable groundwater-related incidents were recorded during the reporting period.

Further Improvements

No improvements relating to groundwater management are planned or considered necessary.

8. REHABILITATION

8.1 REHABILITATION PERFORMANCE DURING THE REPORTING PERIOD

As noted in Section 4.2 opportunities for progressive rehabilitation at the Quarry will remain limited prior to the completion of extraction activities and the construction of the final landform. Prior to the construction of the final landform, progressive rehabilitation is likely to be limited to temporary rehabilitation activities including interburden / overburden stockpile shaping and the seeding and revegetation of disturbed areas to minimise erosion and dust generation. Additionally, topsoil stockpiles and bunds are seeded to promote temporary stabilisation and minimise soil loss.

Table 21 provides a summary of the rehabilitation status of the Quarry at the end of the reporting period.

Table 21
Rehabilitation Status – 2021

Quarry Area Type	Previous Reporting Period (Actual)	This Reporting Period (Actual)	Next Reporting Period (Forecast)
	2020	**2021**	**2022**
Total Quarry Footprint	29.82	29.82	29.82
Total Active Disturbance	29.82	29.82	29.82
Land Being Prepared for Rehabilitation	0	0	0
Land Under Active Rehabilitation	0	0	0
Completed Rehabilitation	0	0	0
Note: Units = ha			
Source: Oberon Quarries Pty Ltd.			

Rehabilitation activities during the reporting period included weed control using herbicides around the perimeter of the Extraction Area as well as the maintenance of water management structures and removal of sediment trapped by rock weirs.

The total active disturbance area (29.82ha) remained unchanged compared to the previous reporting period. Furthermore, no additional disturbance is expected to occur during the next reporting period as extraction operations are expected to remain within the existing active Extraction Area footprint (**Figure 3**).

Rehabilitation during the reporting period was undertaken in accordance with the approved Landscape and Rehabilitation Management Plan for the Quarry and there were no variations to rehabilitation activities outlined in this plan during the reporting period.

No buildings were structurally altered, renovated or removed during the reporting period. Maintenance activities included scheduled equipment maintenance and maintenance of boundary fences as required.

No rehabilitation trials or research was undertaken during the reporting period.

There are currently no specific issues affecting the Company's ability to successfully rehabilitate the Quarry site and therefore no additional specific management measures are required. No rehabilitation areas became available for formal sign off and no final land use objectives were met during the reporting period.

As outlined in the approved Landscape and Rehabilitation Management Plan for the Quarry, it is currently anticipated that native vegetation and ecosystems will be established within the Extraction Area and surface infrastructure areas following the completion of rehabilitation activities at the Quarry. Additional land will be returned to grazing land uses in accordance with the landowner's requirements, consistent with surrounding land uses. A detailed Quarry Closure Plan will be prepared approximately 3 years prior to closure. Prior to the finalisation of this plan, the Company will review relevant local and regional land use strategies and will consult with relevant stakeholders including Oberon Council and DPIE with regards to the suitability of the final land use outlined in the Landscape and Rehabilitation Management Plan.

8.2 ACTIONS FOR THE NEXT REPORTING PERIOD

It is anticipated that opportunities for progressive rehabilitation will remain limited during the next reporting period and that rehabilitation activities will be limited to ongoing weed control and maintenance of water management structures.

9. COMMUNITY

9.1 COMMUNITY CONSULTATION

Consultation was undertaken by the Company with Oberon Council, the NSW Environment Protection Authority and surrounding landholders during the reporting period. Blasting notifications continued to be provided to surrounding landholders prior to each blasting event.

The Company contributed donations and sponsorships to the following organisations during the reporting period.

- Oberon Tigers Rugby League Club
- Oberon Agricultural Show
- Bathurst Harness Club
- Hawkesbury District Agricultural Association

9.2 COMMUNITY COMPLAINTS

The Quarry's complaints handing, and dispute resolution procedures are outlined in the approved Environmental Management Strategy for the Quarry. A community enquiries and complaints line ((02) 6336 0259) is also operated during Quarry operating hours.

Table 22 provides a summary of all complaints received at the Quarry since 2015. It is noted that no complaints were received during the reporting period, and thus, no action or follow ups were required in this instance.

Table 22
Complaints Register Summary

Year	Nature of the Complaint	Actions Taken and Follow-up to the Complaint
2015	No complaints received.	
2016	No complaints received.	
2017	No complaints received.	
2018	Noise x 1	Noise complaint received via DPE in October 2018. Correspondence regarding the matter raised was provided to DPE. No further actions were requested or undertaken.
2019	Transport x 1	Complaint regarding truck movements within Oberon township received via Oberon Council in June 2019. A response regarding the matter raised was provided to Oberon Council. No further actions were requested or undertaken.
2020	Noise x 1	Noise complaint received via DPIE on 18 September 2020 regarding excessive noise (engine brake use) from trucks entering and exiting the Quarry Site and noise associated with trucks entering and exiting the site prior to 6:00am. A response regarding this matter was provided to DPIE on 24 November 2020. DPIE held further discussions with the complainant on 8 December 2020 and the complainant noted that excessive truck noise, primarily associated with the use of engine brakes, was still occurring. A warning letter was received from DPIE on 21 December 2020. No further complaints have been received to date regarding this matter.
2021	No complaints received.	
Source: Oberon Quarries Pty Ltd		

10. INDEPENDENT AUDIT

The last independent environmental audit of the Quarry was undertaken during the previous reporting period in accordance with Condition 10 of Schedule 5 of SDD_6333. The audit report was submitted to the DPIE via the NSW Major Project Portal and covered the period from 1 January 2017 to 30 November 2019. A copy of the audit, together with the Company's response, was provided as Appendix 1 of the 2020 Annual Review.

The audit identified a total of 22 non-compliances with 17 conditions of SSD_6333, three non-compliances with the Statement of Commitments (Appendix 2 of SSD_6333) and eight non-compliances with the conditions of EPL 4442. **Table 23** presents a summary of the audit findings and recommendations and provides an update on the current status of the Company's responses to the audit recommendations.

The next independent environmental audit for the Quarry is due to be undertaken in December 2022 and will cover the period from 1 December 2019 to 30 November 2022.

Table 23
Response to Independent Environmental Audit Recommendations

Issue No.[1]	Project Approval Condition	Requirement	Audit Finding	Recommendation	Status
Identified Administrative Non-Compliance					
A-01	Section 2 Condition 2	The Proponent shall carry out the project generally in accordance with the: (a) EIS; (b) Statement of Commitments; and (c) conditions of this approval.	All conditions in this Approval have not been satisfied. Refer to specific non compliances described below.	Refer to recommendations below.	See the status of each recommendation below.
A-02	Section 2 Condition 6	The Applicant shall not extract extractive materials below a level of 1 125 m AHD.	A recent quarry surveyors report was not available at the time of the Audit to verify that the excavation limits were complied with.	Ensure that annual surveys of the quarry are undertaken to verify that the excavation limits are being complied with.	The Company confirms that it has not extracted below the level of 1 125m. An additional survey will be undertaken following any extraction below the current maximum extraction depth.
A-03	Section 2 Condition 17	By 30 November 2015, unless otherwise agreed with the Secretary, the Applicant shall: (b) submit a survey plan of these boundaries with applicable GPS coordinates to the Secretary.	No correspondence confirming that the survey plan was submitted to DPE was available during the audit.	Ensure that the survey plan showing the GPS location of the limits of excavation have been issued to the DPIE.	The survey plan was produced by Central West Surveying depicting boundaries and depth and submitted by 30 November 2015. The Company will review communication records and re-submitted to DPIE in the event that evidence of submission cannot be identified during the next reporting period.

Table 23 (Cont'd)
Response to Independent Environmental Audit Recommendations

Issue No.[1]	Project Approval Condition	Requirement	Audit Finding	Recommendation	Status
Identified Administrative Non-Compliance (Cont'd)					
A-05	Section 3 Condition 11	The Proponent shall: (c) minimise the air quality impacts of the development during adverse meteorological conditions and extraordinary events (see noted under Table 4);	No procedure has been developed (and documented in the AQMP) to minimise dust impacts during adverse meteorological (and other) conditions.	Develop and implement a procedure minimise the air quality impacts of the development during adverse meteorological conditions and extraordinary events and document that procedure in the AQMP.	The AQMP includes measures targeting adverse meteorological conditions during blasting (Sections 5.1 & 6.3). No additional measures are considered necessary at this time.
A-06	Section 3 Condition 11	The Proponent shall: (e) implement all reasonable and feasible measures to minimise the release of greenhouse gas emissions from the site;	No procedures or controls for the minimisation of greenhouse gas emissions have been developed, implemented and documented in the AQMP.	Develop and implement a procedure minimise greenhouse gas emissions and document that procedure in the AQMP.	The AQMP includes greenhouse gas minimisation measures (Section 5.2). No further procedures and/or controls are considered necessary at this time.
A-07	Section 3 Condition 25	Within 6 months of the approval of the Landscape and Rehabilitation Management Plan, the Applicant shall lodge a Rehabilitation Bond with the Department to ensure that the rehabilitation of the site is implemented in accordance with the performance and completion criteria set out in the plan and relevant conditions of this consent	The required rehabilitation bond is in place. The Bond (bank guarantee) was issued in September 2018, while the LRMP has initially approved in May 2016. The bond was therefore not provided to DPIE within the required six months. A further direction from DPIE for finalisation of the Bond by 30 April 2018 was not met.	No action required as the Bond is now in place.	The Company met the bond requirements on 27 July 2018. No further action required.

Table 23 (Cont'd)
Response to Independent Environmental Audit Recommendations

Issue No.[1]	Project Approval Condition	Requirement	Audit Finding	Recommendation	Status
Identified Administrative Non-Compliance (Cont'd)					
A-08	Section 4 Condition 1	As soon as practicable after obtaining monitoring results showing: (a) an exceedance of any relevant criteria in Schedule 3, the Applicant shall 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	Blast overpressure exceedances were recorded during the Audit Period. No documentation was available to the Audit verifying that relevant landowners had been notified in accordance with this Condition.	No action required as the quarry now has a written agreement with the (one) potentially impacted landowners agreeing to exceedances in noise and blast criteria.	No further action required.
A-09	Section 5 Condition 5	The Proponent shall assess and manage project-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 approval and may be subject to penalty or offence provisions under the EP&A Act or EP&A Regulation.	Refer to Non-Compliances listed above.	Refer to specific recommendations above.	See responses in this table. Quarry-related risks to be managed on an ongoing basis for the remaining life of the Quarry.
A-10	Section 5 Condition 9	By the end of March each year, the Proponent shall review the environmental performance of the project to the satisfaction of the Director-General.	While annual reviews have been published each year, the 2017 Annual review was issued three months late.	Ensure that Annual Reviews are published before the end of March each year.	Future Annual Reviews will be provided by the end of March each year. No further action required.

Table 23 (Cont'd)
Response to Independent Environmental Audit Recommendations

Issue No.[1]	Project Approval Condition	Requirement	Audit Finding	Recommendation	Status
Identified Administrative Non-Compliance (Cont'd)					
A-11	Section 5 Condition 12	Prior to the commencement of construction on the site, the Proponent shall: (iii) all approved strategies, plans and programs required under the conditions of this approval;	The following plans have been uploaded to the Oberon Quarries Website: a) 2018 Pollution Incident Response Management Plan b) Noise Management Plan c) Blast Management Plan d) Air Quality Plan e) Water Management Plan f) Transport Management Plan g) Landscape and Rehabilitation Management Plan h) Environmental Management Strategy The superseded versions of the plans are currently loaded onto the website.	Upload the 2018 versions of the EMS and Plans onto the website.	All current versions of the management plans and strategies are now available on the Company's website. Future revisions to management plans and strategies will be uploaded to the Company's website once approved. No further action required.
A-12	Statement of commitments NO.11	There are a number of mitigation and management measures proposed to be implemented for the ongoing operations. These are outlined in Table 7.2	No procedures or controls for the minimisation of greenhouse gas emissions have been developed, implemented and documented in the AQMP.	Develop and implement a procedure minimise greenhouse gas emissions and document that procedure in the AQMP.	The AQMP includes greenhouse gas minimisation measures (Section 5.2). No further procedures and/or controls are considered necessary at this time.

Table 23 (Cont'd)
Response to Independent Environmental Audit Recommendations

Issue No.[1]	Project Approval Condition	Requirement	Audit Finding	Recommendation	Status
Identified Administrative Non-Compliance (Cont'd)					
A-13	EPL 4442 M1.3	The following records must be kept in respect of any samples required to be collected for the purposes of this license: a) the date(s) on which the sample was taken; b) the time(s) at which the sample was collected; c) the point at which the sample was taken; and d) the name of the person who collected the sample.	While the monitoring and testing results are maintained (in summary form), full details of the sampling and testing in accordance with this condition is not maintained by Oberon Quarries.	Ensure that the consultants contracted to undertake monitoring and testing on behalf of the quarry provide full details of sampling and testing in accordance with this Condition.	Full details of any samples required to be collected will be maintained by the Company. Contractors will be instructed to include all required details in monitoring results provided to the Company. Future monitoring results details will be confirmed on an ongoing basis for the remaining life of the Quarry.
A-14	EPL 4442 M4.2	The record must include details of the following: a) the date and time of the complaint; b) the method by which the complaint was made; c) any personal details of the complainant which were provided by the complainant or, if no such details were provided, a note to that effect; d) the nature of the complaint; e) the action taken by the licensee in relation to the complaint, including any follow-up contact with the complainant; and f) if no action was taken by the licensee, the reasons why no action was taken.	While copies of correspondence related to some of the complaints received, and summaries of the complaints received were available during the audit, a "Complaints Register" containing the information required by this condition was not being maintained.	Establish and maintain a detailed complaint register (for internal use, not for public distribution) that includes the details required in the EPL Condition.	The Company has established a detailed complaints register. Future complaints, including all required details, will be recorded in the complaints register. Complete. No further action required.

Table 23 (Cont'd)
Response to Independent Environmental Audit Recommendations

Issue No.[1]	Project Approval Condition	Requirement	Audit Finding	Recommendation	Status
Identified Administrative Non-Compliance (Cont'd)					
A-15	EPL 4442 M4.3	The record of a complaint must be kept for at least 4 years after the complaint was made.	While copies of correspondence related to some of the complaints received, and summaries of the complaints received were available during the audit, a "Complaints Register" containing the information required by this condition was not being maintained.	Establish and maintain a detailed complaint register (for internal use, not for public distribution) that includes the details required in the EPL Condition.	The Company has established a detailed complaints register. Future complaints, including all required details, will be recorded in the complaints register. Complete. No further action required.
A-16	EPL 4442 R1.5	The Annual Return for the reporting period must be supplied to the EPA by registered post not later than 60 days after the end of each reporting period or in the case of a transferring license not later than 60 days after the date the transfer was granted (the 'due date').	All annual returns prepared during the audit period were not submitted on time.	Ensure that all future Annual Returns are submitted within the required timeframe.	All future Annual Returns will be submitted within the required timeframe. No further action required.
Identified Non-Compliance					
N-01	Section 3 Condition 4	The Proponent shall: (c) carry out noise monitoring (at least every 3 months, unless otherwise approved by the Secretary) to determine whether the development is complying with the relevant conditions of this consent;	No noise monitoring has been undertaken over the last four quarters of this Audit Period. Oberon Quarries considers that their agreements with landowners (agreeing that noise monitoring is only required following a noise complaint) is appropriate. Written approval from the Secretary (nor the EPA) has been given to cease quarterly noise monitoring.	Re-establish quarterly noise monitoring.	In accordance with Condition 3 of Schedule 3 of SSD_6333, noise agreements were established between the Company and landowners (R5, R6 and R8 – see **Figure 4**) to permit exceedance of established noise criteria. The Secretary was notified of these agreements on 25 January 2017 and the discontinuation of noise

Table 23 (Cont'd)
Response to Independent Environmental Audit Recommendations

Issue No.[1]	Project Approval Condition	Requirement	Audit Finding	Recommendation	Status
Identified Non-Compliance (Cont'd)					
N-01 (Cont'd)	Section 3 Condition 4 (Cont'd)				monitoring was approved by the Secretary on 2 February 2017 (see Appendix 3 of the Noise Management Plan). Under the conditions of the Secretary's January 2017 approval, future noise monitoring at the Quarry will be undertaken in the event that either a noise-related complaint cannot be resolved by the Company or a landowner requests that monitoring be undertaken to assess compliance with the relevant noise criteria. No further action required.
N-02	Section 3 Condition 4	The Proponent shall: (d) regularly assess noise monitoring data and modify and/or stop operations on site to ensure compliance with the relevant conditions of this consent, to the satisfaction of the Secretary.	Noise monitoring is no longer undertaken; therefore, an assessment of monitoring data has not been undertaken.	Re-establish quarterly noise monitoring and assessment of the noise monitoring results.	As above. No further action required.

Table 23 (Cont'd)
Response to Independent Environmental Audit Recommendations

Issue No.[1]	Project Approval Condition	Requirement	Audit Finding	Recommendation	Status
Identified Non-Compliance (Cont'd)					
N-03	Section 3 Condition 6	The Proponent shall ensure that blasting on the site does not cause exceedances of the criteria in Table 3. a) Air blast Over Pressure – 115dB(Lin Peak) / 5% of the total number of blasts per year, and 120dB(Lin Peak) / 100% of the total number of blasts per year. b) Ground Vibration 5mm/s / 5% of the total number of blasts per year, and 10mm/s / 100% of the total number of blasts per year.	Seven production blasts were undertaken in the 2017 calendar year. One exceedance in blast over pressure was recorded. Five production blasts were undertaken during the 2018 Calendar Year. One blast (22 January 2018) exceeded the over pressure limit and represented 5% of the blasts undertaken. Seven production blasts were undertaken in the 2019 calendar year (to date).	1. Review the blasting procedures to determine the causes of the exceedances and modify the blasting procedures as necessary.	Site blasting laws and practices have been reviewed and revised for the Quarry. Blast monitoring results for the Quarry will be reviewed on an ongoing basis and further adjustments to blasting methodologies made if required.
N-04	Section 3 Condition 10	The Proponent shall ensure that all reasonable and feasible avoidance and mitigation measures are employed so that particulate matter emissions generated by the project do not exceed the criteria listed in Table 4 at any residence on privately-owned land.	Monthly dust deposition monitoring (Photo #3) is undertaken, however no TSP or Particulate matter testing is undertaken. Therefore, compliance against the TSP and Particulate Matter criteria could not be verified. Dust deposition testing over the Audit Period: no exceedances were detected in 2019 (year to date), 2018 or 2017.	Expand the air quality monitoring program to include TSP and Particulate Matter monitoring.	In accordance with the approved Air Quality Management Plan, compliance with the relevant TSP and PM_{10} criteria is assumed and will only be monitored in the event that a complaint regarding TSP or PM_{10} levels is received at the Quarry. No further action is required.

Table 23 (Cont'd)
Response to Independent Environmental Audit Recommendations

Issue No.[1]	Project Approval Condition	Requirement	Audit Finding	Recommendation	Status
Identified Non-Compliance (Cont'd)					
N-05	Section 3 Condition 11	The Proponent shall: (a) implement best practice management to minimise the dust emissions of the development;	The AQMP details the controls to be implemented. All controls except the use of the wheel wash are able to be implemented. There appears to be no provision dust control in pit stockpiles.	1. Recommission the truck wheel wash. 2. Consider the provision of mobile water spray to permit dust suppression to be undertaken on stockpiles during adverse weather conditions.	The truck wheel wash was recommissioned during the reporting period. Stockpiles are located within the Extraction Area and are therefore largely shielded from strong winds. Dust suppression through the application of water will be undertaken on stockpiles where required. Complete. No further action required.
N-06	Section 3 Condition 12	The Proponent shall prepare and implement an Air Quality Management Plan for the project to the satisfaction of the Secretary. This plan must: (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;	Air Quality monitoring program is detailed in Section 6.1 of the Noise Management Plan. The air quality monitoring program does not cover monitoring for TSP and Particulate Matter.	Include annual TSP and Particulate testing in the dust monitoring program.	In accordance with the approved Air Quality Management Plan, compliance with the relevant TSP and PM_{10} criteria is assumed and will only be monitored in the event that a complaint regarding TSP or PM_{10} levels is received at the Quarry. No further action is required.

Table 23 (Cont'd)
Response to Independent Environmental Audit Recommendations

Issue No.[1]	Project Approval Condition	Requirement	Audit Finding	Recommendation	Status
Identified Non-Compliance (Cont'd)					
N-06 (Cont'd)	Section 3 Condition 12 (Cont'd)	– effectively supports the air quality management system; and – evaluates and reports on the adequacy of the air quality management system.			
N-07	Section 3 Condition 15	Unless an EPL authorises otherwise, the Applicant shall comply with Section 120 of the POEO Act.	Non compliances with blast over pressure were identified during the audit. A Non-compliance in relation to the dust and water monitoring procedures was identified during the audit.	Refer to EPL recommendations below.	See responses in this table.
N-08	Section 3 Condition 18	The Applicant shall ensure that: c) all laden trucks exiting the site are cleaned of material that may fall on the road, before leaving the site;	Dust and loose material are not actively removed from product trucks prior to leaving the site. The requirement for loose material to be removed from all trucks is contained in both the Transport Management Plan and the Driver Code of Conduct.	Recommission the truck wheel wash.	The truck wheel wash was recommissioned during the previous reporting period. Complete. No further action required.
N-09	Section 3 Condition 24	The Applicant shall prepare and implement a Landscape and Rehabilitation Management Plan for the development to the satisfaction of the Secretary. This plan must:	Section 5 of the Landscape and Rehabilitation Management Plan describes the measures to be implemented to ensure compliance with the rehabilitation objectives.	Ensure that all measures detailed in the LRMP are implemented in accordance with the Plan.	The Company contends that weeds have been actively monitored and sprayed by a contractor (Eurogreen) in accordance with the requirements outlined in the Landscape and Rehabilitation

Table 23 (Cont'd)
Response to Independent Environmental Audit Recommendations

Issue No.[1]	Project Approval Condition	Requirement	Audit Finding	Recommendation	Status
Identified Non-Compliance (Cont'd)					
N-09 (Cont'd)	Section 3 Condition 24 (Cont'd)		The following commitments made in the Plan were not being implemented at the time of the Audit: a) regular weed inspections and weed control b) establishment of Rehabilitation Monitoring.		Management Plan. These measures will continue to be undertaken throughout the remaining life of the Quarry. In accordance with advice provided by an ecologist, the establishment and monitoring of residual vegetation plots is to be undertaken between 3 and 5 years prior to the commencement of rehabilitation works (i.e. by 2023 at the earliest). No further action required.
N-10	Section 3 Condition 24	The Applicant shall prepare and implement a Landscape and Rehabilitation Management Plan for the development to the satisfaction of the Secretary. This plan must:	Section 7 of the Landscape and Rehabilitation Management Plan describes the landscape monitoring that will be undertaken to measure progress and performance. While significant rehabilitation works have not been commenced, the Plan requires the establishment of Residual Vegetation Monitoring and Annual Rehabilitation Monitoring. The programs have not been implemented.	Implement the preliminary survey and monitoring of residual vegetation sites.	As above. No further action required.

Table 23 (Cont'd)
Response to Independent Environmental Audit Recommendations

Issue No.[1]	Project Approval Condition	Requirement	Audit Finding	Recommendation	Status
Identified Non-Compliance (Cont'd)					
N-11	Section 3 Condition 28	The Applicant shall: (b) minimise the waste generated by the development;	There is no program in place to minimise wastes.	Undertake a review of waste generation and identify opportunities for waste minimisation.	It was determined that a formal waste management plan would not represent a significant improvement compared to existing site management practices due to the limited volumes of waste produced at the Quarry. The Company will review waste generation and opportunities for waste minimisation at the Quarry on an ongoing basis throughout the remaining life of the Quarry. No further action required.
N-12	Section 3 condition 28	The Applicant shall: (c) ensure that the waste generated by the development is appropriately stored, handled, and disposed of; and	In general, the management and storage of waste materials were being undertaken in a competent manner with the exception of waste batteries and oils associated with come derelict equipment.	1. Ensure that used batteries are stored in an appropriate roofed and bunded area (or on a bunded pallet). 2. Stock piling of used batteries should be avoided. Batteries should be disposed of by (by recycling) via an appropriately licenced waste contractor. 3. Ensure oils are drainage (and collected) from derelict equipment and disposed of by an appropriately licenced waste contractor.	Waste batteries, oils and unusable equipment and parts were collected and disposed of by an appropriately licenced contractor. Used batteries will be stored in an appropriately roofed and bunded area moving forward. Complete. No further action required.

Table 23 (Cont'd)
Response to Independent Environmental Audit Recommendations

Issue No.[1]	Project Approval Condition	Requirement	Audit Finding	Recommendation	Status
Identified Non-Compliance (Cont'd)					
N-13	Statement of commitments NO.5	Oberon Quarries has committed to implementing the following dust management and mitigation practices: • mist sprays on conveyors discharging to product stockpiles; • undertaking preventative maintenance on all dust suppression plant and equipment; • truck wheel wash facility will be maintained to be fully functional;	The AQMP details the controls to be implemented. All controls except the use of the wheel wash are able to be implemented. There appears to be no provision dust control in pit stockpiles.	1. Recommission the truck wheel wash. 2. Consider the provision of mobile water spray to permit dust suppression to be undertaken on stockpiles during adverse weather conditions.	The truck wheel wash was recommissioned during the previous reporting period. Stockpiles are located within the Extraction Area and are therefore largely shielded from strong winds. Dust suppression through the application of water will be undertaken on stockpiles where required. Complete. No further action required.
N-14	Statement of commitments NO.10	To ensure the archaeological impacts of the quarry are minimised, Oberon Quarries has committed to implementing the following management and mitigation measures: • Oberon Quarries should ensure that all parties involved in the Project are aware that it is an offence under Section 86 of the NPW Act to harm or desecrate an Aboriginal object unless that ham1 or desecration is the subject of an AHIP; • in the event that an Aboriginal object (or objects) is uncovered during the proposed works,	There has been no training (toolbox session or information in the site induction) to inform staff that it is an offence under Section 86 of the NPW Act to harm or desecrate an Aboriginal object unless that ham1 or desecration is the subject of an AHIP. There is no "unexpected finds procedure" or training that informs employees or contractors of what to do if a suspected heritage artefact is found.	Develop training materials to cover Heritage issues and undertake that training for staff and any contractors involved in vegetation clearing or excavation work.	Relevant requirements under Section 86 of the NPW Act 1974 and requirements regarding the discovery of Aboriginal objects or human remains are detailed during the Quarry's formal induction program. Requirements surrounding heritage matters will be reviewed during the next reporting period and each subsequent reporting period during Toolbox meetings and training sessions.

Table 23 (Cont'd)
Response to Independent Environmental Audit Recommendations

Issue No.[1]	Project Approval Condition	Requirement	Audit Finding	Recommendation	Status
Identified Non-Compliance (Cont'd)					
N-14 (Cont'd)	Statement of commitments NO.10 (Cont'd)	ground disturbance works will cease within 20 meters of the object(s) and OEH and the relevant Aboriginal parties will be contacted so that appropriate management strategies can be identified;			
N-15	EPL 4442 L5.1	The air blast overpressure level from blasting operations at the premises must not exceed 115dB (Lin Peak) at any noise sensitive locations for more than five per cent of the total number of blasts over each reporting period. Error margins associated with any monitoring equipment used to measure this are not to be taken into account in determining whether or not the limit has been exceeded.	Seven production blasts were undertaken in the 2017 calendar year. One exceedance in blast over pressure was recorded. Five production blasts were undertaken during the 2018 Calendar Year. One blast (22 January 2018) exceeded the over pressure limit and represented 5% of the blasts undertaken. Seven production blasts were undertaken in the 2019 calendar year (to date).	Review the blasting procedures to determine the causes of the exceedances and modify the blasting procedures as necessary.	Site blasting laws have been reviewed and revised by the blasting contractor. Blast monitoring results will be reviewed on an ongoing basis and further revision of site blasting methodologies made if required.
N-16	EPL 4442 L5.2	The air blast overpressure level from blasting operations at the premises must not exceed 120dB (Lin Peak) at any time at any noise sensitive locations. Error margins associated with any monitoring equipment used to measure this are not to be taken into account in determining whether or not the limit has been exceeded.	Seven production blasts were undertaken in the 2017 calendar year. One exceedance (19 July 2017, 128.7 dB (Lin Peak)) in blast over pressure was recorded. Five production blasts were undertaken during the 2018 Calendar Year. One blast (22 January 2018) exceeded the over pressure limit and represented 5% of the blasts undertaken. Seven	Review the blasting procedures to determine the causes of the exceedances and modify the blasting procedures as necessary.	As above.

Table 23 (Cont'd)
Response to Independent Environmental Audit Recommendations

Issue No.[1]	Project Approval Condition	Requirement	Audit Finding	Recommendation	Status
Identified Non-Compliance (Cont'd)					
N-16 (Cont'd)	EPL 4442 L5.2 (Cont'd)		production blasts were undertaken in the 2019 calendar year (to date).		
N-17	EPL 4442 O1.0	Licensed activities must be carried out in a competent manner. This includes b) the treatment, storage, processing, reprocessing, transport and disposal of waste generated by the activity.	In general, the management and storage of waste materials were being undertaken in a competent manner with the exception of waste batteries and oils associated with come derelict equipment.	1. Ensure that used batteries are stored in an appropriate roofed and bunded area (or on a bunded pallet). 2. Stock piling of used batteries should be avoided. Batteries should be disposed of by (by recycling) via an appropriately licenced waste contractor. 3. Ensure oils are drainage (and collected) from derelict equipment and disposed of by an appropriately licenced waste contractor.	Waste batteries, oils and unusable equipment and parts were collected and disposed of by an appropriately licenced contractor. Used batteries will be stored in an appropriately roofed and bunded area moving forward. Complete. No further action required.
N-18	EPL 4442 O3.0	Licensed activities must be carried out in a competent manner. This includes: The premises must be maintained in a condition which minimises or prevents the emission of dust from the premises.	The AQMP details the controls to be implemented. All controls except the use of the wheel wash are able to be implemented. There appears to be no provision dust control in pit stockpiles.	1. Recommission the truck wheel wash. 2. Consider the provision of mobile water spray to permit dust suppression to be undertaken on stockpiles during adverse weather conditions.	The truck wheel wash was recommissioned during the reporting period. Stockpiles are located within the Extraction Area and are therefore largely shielded from strong winds. Dust suppression through the application of water will be undertaken on stockpiles where required. Complete. No further action required.

Source: adapted from Table 1 of Oberon Quarries Pty Ltd response to Barnett & May (2020) (see **Appendix 1**).

11. INCIDENTS AND NON-COMPLIANCES DURING THE REPORTING PERIOD

During the reporting period, one exceedance of the lower airblast overpressure criterion was recorded during blast monitoring (see Section 6.4). The exceedance was not reported as a non-compliant in the Annual Return submitted to the EPA for the period 1 January 2021 to 31 December 2021 as it was not considered that exceedances of the lower airblast overpressure criterion (115dB(L)) recorded at monitoring location BM1 was experienced at any privately-owned, non-Quarry related residences not subject to a blasting agreement in the vicinity of the Quarry (see Section 6.4).

No further exceedances or incidents occurred at the Quarry during the reporting period.

During the reporting period, no complaints, official cautions, penalty notices or prosecution proceedings were received by the Company.

Table 24 provides a summary of each non-compliance identified in Section 1 and outlines the Company's response to each non-compliance. A complete compliance review is presented in **Appendix 1**.

Table 24
Non-Compliances during the 2021 Reporting Period and Responses

Approval	Cond. No.	Non-compliance	Response
EPL 4442	M2.2	Deposited dust samples not collected during July 2021 at Monitoring Points 1 - 4. Additionally, monthly samples collected in February 2021 and August 2021 at Monitoring Point 1 and in August 2021 at Monitoring Point 4 were not analysed due to container breakage.	Lockdown and travel restrictions associated with the COVID-19 pandemic were unprecedented. To overcome similar situations, sampling instructions will be prepared for use by on site personnel where the contractor is unable to access the site. If future delays to sample despatch occur during winter periods, deposited dust samples will be covered and stored indoors at a suitable temperature to prevent freezing.
	M2.2	Deposited dust samples not collected within 30 +/- 2 days from the previous collection date (i.e. non-compliance with exposure period).	A monitoring schedule will be developed and implemented at the Quarry to record deposited dust sample jar installation and collection dates in accordance with the specified method (i.e. exposure periods of 30 days +/- 2 days). Personnel absences due to COVID-19 restrictions are unforeseeable, however, environmental monitoring requirements will be met where possible and sampling procedures will be prepared for personnel to follow in the absence of the designated sampler.

12. ACTIVITIES TO BE COMPLETED IN THE NEXT REPORTING PERIOD

It is anticipated that the following activities will be undertaken during the next reporting period.

- Continued extraction of benches in areas identified in **Figure 3**.
- Ongoing monthly monitoring of air quality, surface water and groundwater and monitoring of blast events and discharge events as required.
- Ongoing weed control and maintenance of water management structures.
- Review and, if necessary, revision of management plans for the Quarry following the submission of this Annual Review in accordance with Condition 5 of Schedule 5 of SSD_6333.
- Update the Company website, as required, to include the 2021 Annual Review and any updated management plans.

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Appendices

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Appendix 1

Compliance Review

(Total No. of pages including blank pages = 134)

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Table A1.1
Compliance with Development Consent (SSD_6333)

Consent Condition	Summary of Condition	Compliance	Comment
SCHEDULE 2 ADMINISTRATIVE CONDITIONS			
OBLIGATION TO MINIMISE HARM TO THE ENVIRONMENT			
1.	In addition to meeting the specific performance measures and criteria established under this consent, the Applicant shall 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.	Noted	
TERMS OF CONSENT			
2.	The Applicant shall carry out the development: (a) generally in accordance with the EIS; (b) in accordance with the Development Layout and Statement of Commitments; and (c) in accordance with the conditions of this consent. *Notes:* • *The Development Layout is shown in the figures in Appendix 1.* • *The Statement of Commitments is reproduced in Appendix 2.*	Compliant	All conditions in this Approval have been satisfied.
3.	If there is any inconsistency between the above documents, the most recent document shall prevail to the extent of the inconsistency. However, the conditions of this consent shall prevail to the extent of any inconsistency.	Noted	
4.	The Applicant shall 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	
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 shall lapse.	Noted	
LIMITS ON CONSENT			
Quarrying Operations			
6.	The Applicant shall not extract extractive materials below a level of 1125 m AHD.	Compliant	Last surveyor report conveyed depth of 1 154m. The Company confirms it has not extracted below level of 1 125m.

Table A1.1 (Cont'd)
Compliance with Development Consent (SSD_6333)

Consent Condition	Summary of Condition	Compliance	Comment
SCHEDULE 2 ADMINISTRATIVE CONDITIONS (Cont'd)			
LIMITS ON CONSENT (Cont'd)			
Quarrying Operations (Cont'd)			
7.	The Applicant may carry out quarrying operations on the site until 30 August 2045. Note: *Under this consent, the Applicant is required to rehabilitate the site and carry out additional undertakings to the satisfaction of the Secretary. Consequently, this consent will continue to apply in all other respects other than the right to conduct quarrying operations until the rehabilitation of the site and those undertakings have been carried out to a satisfactory standard.*	Noted	
Production Limits			
8.	The Applicant shall not transport more than 400,000 tonnes of quarry products from the site in any calendar year.	Compliant	
9.	The Applicant shall not transport more than 3,000 tonnes of quarry products from the site on any day.	Compliant	
SURRENDER OF EXISTING DEVELOPMENT CONSENTS			
10.	Within 6 months of the date of this consent, or as otherwise agreed by the Secretary, the Applicant shall surrender the development consent (DA 92/164) for the existing operations on the site in accordance with clause 97 of the EP&A Regulation. Note: *This requirement does not extend to the surrender of construction and occupation certificates for existing and proposed building works under Part 4A of the EP&A Act. Surrendering of consent should not be understood as implying that works legally constructed under a valid consent can no longer be legally maintained or used.*	Noted	
11.	Prior to the surrender of development consent DA 92/164, the conditions of this consent shall prevail to the extent of any inconsistency with the conditions of development consent DA 92/164.	Noted	
STRUCTURAL ADEQUACY			
12.	The Applicant shall 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. *Notes:* • *Under Part 4A of the EP&A Act, the Applicant is required to obtain construction and occupation certificates for the proposed building works; and* • *Part 8 of the EP&A Regulation sets out the requirements for the certification of the development.*	Compliant	

Table A1.1 (Cont'd)
Compliance with Development Consent (SSD_6333)

Consent Condition	Summary of Condition	Compliance	Comment
SCHEDULE 2 ADMINISTRATIVE CONDITIONS (Cont'd)			
DEMOLITION			
13.	The Applicant shall ensure that all demolition work is carried out in accordance with Australian Standard AS 2601-2001: The Demolition of Structures, or its latest version.	Compliant	
PROTECTION OF PUBLIC INFRASTRUCTURE			
14.	The Applicant shall: (a) repair, or pay the full costs associated with repairing, any public infrastructure that is damaged by the development; and (b) 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 damage to roads caused as a result of general road usage.*	Compliant	
OPERATION OF PLANT AND EQUIPMENT			
15.	The Applicant shall 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.	Compliant	
PRODUCTION DATA			
16.	The Applicant shall: (a) provide annual quarry production data to DRE 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).	Compliant	
IDENTIFICATION OF APPROVED EXTRACTION LIMITS			
17.	By 30 November 2015, unless otherwise agreed with the Secretary, the Applicant shall: (a) engage a registered surveyor to mark out the boundaries of the approved limits of extraction within the development area; and (b) submit a survey plan of these boundaries with applicable GPS coordinates to the Secretary.	Compliant	Survey completed by Central West Surveying depicting boundaries and depth and submitted by 30 November 2015
18.	While quarrying operations are being carried out, the Applicant shall 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.	Compliant	

Table A1.1 (Cont'd)
Compliance with Development Consent (SSD_6333)

Consent Condition	Summary of Condition	Compliance	Comment
SCHEDULE 2 ADMINISTRATIVE CONDITIONS (Cont'd)			
DEVELOPMENT CONTRIBUTIONS			
19.	The Applicant shall pay Council road maintenance contributions for the maintenance/repair of public roads. The contribution shall be: (a) paid at a rate of $0.482 per tonne of extractive materials hauled from the site; (b) paid every month based on the material transported in the preceding month; and (c) indexed annually to changes in the Consumer Price Index (All Groups). *Notes: If the parties are not able to agree on any aspect of the road maintenance contributions, either party may refer the matter to the Secretary for resolution.*	Compliant	
SCHEDULE 3 ENVIRONMENTAL PERFORMANCE CONDITIONS			
NOISE			
Hours of Operation			
1.	The Applicant shall comply with the operating hours set out in Table 1. *Note: The Applicant may carry out other activities e.g. maintenance, on the site provided that these activities are conducted in a manner that is inaudible at all privately-owned residences.*	Compliant	
2.	The following activities may be carried out on the site outside the hours specified in condition 1: (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 shall notify the Secretary and affected residents prior to undertaking the activities, or as soon as is practical thereafter.	Noted	

Table 1: Operating Hours

Activity	***Operating Hours***
Extraction operations	7 am to 6 pm Monday to Friday 7 am to 5 pm Saturday
Loading and dispatch	6 am to 10 pm Monday to Friday 6 am to 5 pm Saturday
Construction and maintenance activities	7 am to 6 pm Monday to Friday 7 am to 4 pm Saturday
Blasting	9 am to 5 pm Monday to Saturday

Table A1.1 (Cont'd)
Compliance with Development Consent (SSD_6333)

<table>
<tr><th>Consent Condition</th><th>Summary of Condition</th><th>Compliance</th><th>Comment</th></tr>
<tr><td colspan="4">SCHEDULE 3 ENVIRONMENTAL PERFORMANCE CONDITIONS (Cont'd)</td></tr>
<tr><td colspan="4">NOISE (Cont'd)</td></tr>
<tr><td colspan="4">Noise Impact Assessment Criteria</td></tr>
<tr><td>3.</td><td>The Applicant shall ensure that the noise generated by the development does not exceed the criteria in Table 2 at any residence on privately-owned land.
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, these criteria do not apply if the Applicant has an agreement with the relevant landowner to exceed the noise criteria in Table 2, and the Applicant has advised the Department in writing of the terms of this agreement.
Table 2: Noise criteria dB(A)<table><tr><th rowspan="2">Receiver</th><th>Day / Evening</th><th colspan="2">Night</th></tr><tr><th>$L_{Aeq(15\ min)}$</th><th>$L_{Aeq(15\ min)}$</th><th>$L_{A1(max)}$</th></tr><tr><td>All privately-owned residences</td><td>35</td><td>35</td><td>45</td></tr></table></td><td>Compliant</td><td></td></tr>
<tr><td colspan="4">Operating Conditions</td></tr>
<tr><td>4.</td><td>The Applicant shall:
(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) carry out noise monitoring (at least every 3 months, unless otherwise approved by 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 on site to ensure compliance with the relevant conditions of this consent,
to the satisfaction of the Secretary.</td><td>Compliant</td><td>Noise monitoring is no longer undertaken, therefore an assessment of monitoring data has not been undertaken.
Oberon Quarries considers that their agreements with landowners (agreeing that noise monitoring is only required following a noise complaint) is appropriate. Written approval from the Secretary (nor the EPA) has been given (2 February 2017) to cease quarterly noise monitoring.
Future noise monitoring at the Quarry will be undertaken in the event that either a noise-related complaint cannot be resolved by the Company or a landowner requests that monitoring be undertaken to assess compliance with the relevant noise criteria.</td></tr>
</table>

Table A1.1 (Cont'd)
Compliance with Development Consent (SSD_6333)

Consent Condition	Summary of Condition	Compliance	Comment
SCHEDULE 3 ENVIRONMENTAL PERFORMANCE CONDITIONS (Cont'd)			
NOISE (Cont'd)			
Noise Management Plan			
5.	The Applicant shall prepare and implement a Noise 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, unless otherwise agreed by the Secretary; (b) describe the measures that would be implemented to ensure compliance with the noise criteria and operating conditions of this consent; (c) describe the proposed noise management system in detail; and (d) include a monitoring program to be implemented to measure noise from the development against the noise criteria in Table 2, and which evaluates and reports on the effectiveness of the noise management system on site.	Compliant	
BLASTING			
Blasting Impact Assessment Criteria			
6.	The Applicant shall ensure that blasting on site does not cause any exceedance of the criteria in Table 3. However, these criteria do not apply if the Applicant has a written agreement with the relevant landowner to exceed the limits in Table 3, and the Applicant has advised the Department in writing of the terms of this agreement.	Complaint	Ten production blasts were undertaken during the reporting period. One blast exceeded the 115 dB(Lin Peak) limit, representing 10% of the total blasts. The Applicant has an agreement with the affected residence and, based on site blasting laws, it is not anticipated that the exceedance occurred at any other private residences.

Table 3: Blasting Criteria

Location	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

Consent Condition	Summary of Condition	Compliance	Comment
Blasting Frequency			
7.	The Applicant may carry out a maximum of 2 blasts per week, unless an additional blast is required following a blast misfire. This condition does not apply to blasts required to ensure the safety of the quarry or workers on site. *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.*	Compliant	

Table A1.1 (Cont'd)
Compliance with Development Consent (SSD_6333)

Page 7 of 23

Consent Condition	Summary of Condition	Compliance	Comment
SCHEDULE 3 ENVIRONMENTAL PERFORMANCE CONDITIONS (Cont'd)			
BLASTING (Cont'd)			
Operating Conditions			
8.	During blasting operations, the Applicant shall: (a) implement best management practice to: • protect the safety of people and livestock in areas surrounding blasting operations; • protect public or private infrastructure/property in the surrounding area from damage from blasting operations; and • minimise dust and fume emissions from blasting; (b) operate a suitable system to enable the local community to get up-to-date information on the proposed blasting schedule on site; and (c) carry out regular monitoring to determine whether the development is complying with the relevant conditions of this consent, to the satisfaction of the Secretary.	Compliant	
Blast Management Plan			
9.	The Applicant shall prepare and implement 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, unless otherwise agreed by the Secretary; (b) describe the measures that would be implemented to ensure compliance with the blast criteria and operating conditions in conditions 7 and 8 above; (c) include a monitoring program for evaluating and reporting on compliance with the blasting criteria in this consent; (d) include community notification procedures for the blasting schedule; and (e) include a protocol for investigating and responding to complaints.	Compliant	

Table A1.1 (Cont'd)
Compliance with Development Consent (SSD_6333)

<table>
<tr><th>Consent Condition</th><th>Summary of Condition</th><th>Compliance</th><th>Comment</th></tr>
<tr><td colspan="4">SCHEDULE 3 ENVIRONMENTAL PERFORMANCE CONDITIONS (Cont'd)</td></tr>
<tr><td colspan="4">AIR QUALITY</td></tr>
<tr><td colspan="4">Air Quality Impact Assessment Criteria</td></tr>
<tr><td>10.</td><td>The Applicant shall 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 4 at any residence on privately-owned land.

Table 4: 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 $\mu g/m^3$</td></tr>
<tr><td>Particulate matter < 10 µm (PM_{10})</td><td>24 hour</td><td colspan="2">[b] 50 $\mu g/m^3$</td></tr>
<tr><td>Total suspended particulates (TSP)</td><td>Annual</td><td colspan="2">[a,d] 90 $\mu g/m^3$</td></tr>
<tr><td>[c] Deposited dust</td><td>Annual</td><td>[b] 2 g/m^2/month</td><td>[a,d] 4 g/m^2/month</td></tr>
</table>
Notes to Table 4:

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

b Incremental impact (ie increase in concentrations due to the development alone, 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 by the Secretary.

e "Reasonable and feasible avoidance measures" includes, but is not limited to, the operational requirements in conditions 11 and 12 to develop and implement an air quality management system that ensures operational responses to the risks of exceedance of the criteria.</td><td>Compliant</td><td>Monthly dust deposition monitoring is undertaken; however, no TSP or Particulate matter testing is undertaken. Therefore, compliance against the TSP and Particulate Matter criteria could not be verified.

In accordance with the approved Air Quality Management Plan, compliance with the relevant TSP and PM_{10} criteria is assumed and will only be monitored in the event that a complaint regarding TSP or PM_{10} levels is received at the Quarry.</td></tr>
<tr><td colspan="4">Operating Conditions</td></tr>
<tr><td>11.</td><td>The Applicant shall:
(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 on site to ensure compliance with the air quality criteria in this consent;</td><td>Compliant</td><td></td></tr>
</table>

Table A1.1 (Cont'd)
Compliance with Development Consent (SSD_6333)

Consent Condition	Summary of Condition	Compliance	Comment
SCHEDULE 3 ENVIRONMENTAL PERFORMANCE CONDITIONS (Cont'd)			
AIR QUALITY (Cont'd)			
Operating Conditions (Cont'd)			
11. (Cont'd)	(c) minimise the air quality impacts of the development during adverse meteorological conditions and extraordinary events (see note d under Table 4); (d) monitor and report on compliance with the relevant air quality conditions in this consent; (e) implement all reasonable and feasible measures to minimise the release of greenhouse gas emissions from the site; and (f) minimise the area of surface disturbance and undertake progressive rehabilitation of the site, to the satisfaction of the Secretary.		
Air Quality Management Plan			
12.	The Applicant shall prepare and implement 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, unless otherwise agreed by the Secretary; (b) describe the measures that would be implemented to ensure compliance with the air quality criteria and operating conditions of this consent; (c) describe the proposed air quality management system; (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.	Compliant	In accordance with the approved Air Quality Management Plan, compliance with the relevant TSP and PM_{10} criteria is assumed and will only be monitored in the event that a complaint regarding TSP or PM_{10} levels is received at the Quarry.
Meteorological Monitoring			
13.	For the life of the development, the Applicant shall 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.	Compliant	

Table A1.1 (Cont'd)
Compliance with Development Consent (SSD_6333)

Consent Condition	Summary of Condition	Compliance	Comment
SCHEDULE 3 ENVIRONMENTAL PERFORMANCE CONDITIONS (Cont'd)			
SOIL AND WATER			
Water Supply			
14.	The Applicant shall 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. *Note: Under the Water Act 1912 and/or the Water Management Act 2000, the Applicant is required to obtain the necessary water licences for the development, including in respect of the extraction and/or interception of groundwater.*	Compliant	
Water Pollution			
15.	Unless an EPL authorises otherwise, the Applicant shall comply with Section 120 of the POEO Act.	Compliant	
Water Management Plan			
16.	The Applicant shall prepare and implement a Water Management Plan for the development to the satisfaction of the Secretary. This plan must: (a) be prepared by suitably qualified person/s approved by the Secretary; (b) be prepared in consultation with the EPA and DPI-Water; (c) be submitted to the Secretary for approval within 6 months of the date of this consent, unless otherwise agreed by the Secretary; (d) include a: (i) Site Water Balance that includes: details of: o sources and security of water supply; o water use and management on site; o any off-site water transfers; and o reporting procedures. measures that would be implemented to minimise clean water use on site; (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;	Compliant	

Table A1.1 (Cont'd)
Compliance with Development Consent (SSD_6333)

Consent Condition	Summary of Condition	Compliance	Comment
SCHEDULE 3 ENVIRONMENTAL PERFORMANCE CONDITIONS (Cont'd)			
SOIL AND WATER (Cont'd)			
Water Management Plan (Cont'd)			
	a detailed description of the surface water management system on site including the: ○ clean water diversion system; ○ erosion and sediment controls; ○ dirty water management system; and ○ water storages; and a program to monitor and report on: ○ any surface water discharges; ○ the effectiveness of the water management system; ○ maintaining sufficient dirty water storage capacity to avoid discharges of sediment-laden water; and ○ surface water flows and quality in local watercourses; (iii) Groundwater Management Plan, that includes: baseline data on groundwater levels, yield and quality in local aquifers and privately-owned groundwater bores that could be potentially affected by the development; a program to monitor and report on groundwater inflows to the quarry pit and the impacts of the development on surrounding aquifers and privately-owned groundwater bores; and an analysis of the monitoring results to predict long-term water levels within the quarry void; and (iv) Surface and Ground Water Contingency Strategy, that includes: a protocol for the investigation, notification and mitigation of identified impacts on surface water flows and quality in water bodies and/or groundwater levels, yield and quality in local aquifers and privately-owned groundwater bores that could be potentially affected by the development; and the procedures that would be followed if any unforeseen impacts are detected during the development.		

Table A1.1 (Cont'd)
Compliance with Development Consent (SSD_6333)

Consent Condition	Summary of Condition	Compliance	Comment
SCHEDULE 3 ENVIRONMENTAL PERFORMANCE CONDITIONS (Cont'd)			
TRANSPORT			
Monitoring of Product Transport			
17.	The Applicant shall keep accurate records of all truck movements to and from the site (hourly, daily, weekly, monthly and annually) and publish a summary of records on its website every 6 months.	Compliant	
Operating Conditions			
18.	The Applicant shall ensure that: (a) all reasonable measures are taken such that laden trucks have appropriate signage, including a contact phone number, so they can be easily identified by road users; (b) all laden trucks entering or exiting the site have their loads covered; (c) all laden trucks exiting the site are cleaned of material that may fall on the road, before leaving the site; (d) during the periods 6 am to 7 am and 6 pm to 10 pm, a maximum of 4 laden vehicles per hour shall leave the site; and (e) no trucks queue at the entrance to the site before 6 am.	Compliant	
Further Road Maintenance and Contributions			
19.	Within 6 months from the date of this consent the Applicant shall provide and install "Intersection Advance" (G1-207) warning signage on the eastbound approach to the intersection of Duckmaloi Road and Titania Road.	Compliant	
20.	Within two weeks of receiving a written request from Council, or as otherwise agreed by Council, the Applicant shall: (a) provide Council with sufficient 14/7 mm sealing aggregate for the intersections of Shooters Hill and Edith Roads; Edith and Titania Roads; and Titania and Duckmaloi Roads; and (b) provide Council with sufficient DGB 20 road base to reconstruct the pavement at the intersection of Edith and Titania Roads to a depth of 200 mm. *Notes:* • *The minimum required quantities of materials for each intersection listed in 20(a) and 20(b) are shown in Appendix 5.* • *If the parties are not able to agree on any aspect of the maintenance contributions, either party may refer the matter to the Secretary for resolution.*	Noted	

Table A1.1 (Cont'd)
Compliance with Development Consent (SSD_6333)

Consent Condition	Summary of Condition	Compliance	Comment
SCHEDULE 3 ENVIRONMENTAL PERFORMANCE CONDITIONS (Cont'd)			
TRANSPORT (Cont'd)			
Transport Management Plan			
21.	The Applicant shall prepare and implement a Transport 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, unless otherwise agreed by the Secretary; (b) include a Drivers' Code of Conduct to minimise the impacts of development-related trucks on local residences and road users; and (c) describe the measures that would be put in place to ensure compliance with the Drivers' Code of Conduct.	Compliant	
LANDSCAPE AND REHABILITATION			
Rehabilitation Objectives			
22.	The Applicant shall rehabilitate the site to the satisfaction of the Secretary. This rehabilitation must be generally consistent with the rehabilitation strategy set out in the EIS and the conceptual final landform shown in Appendix 3 and must comply with the objectives in Table 5.	Compliant	

Table 5: Rehabilitation Objectives

Feature	Objective
Site (as a whole)	• Safe, stable and non-polluting • Final landform integrated with surrounding natural landforms as far as is reasonable and feasible, and minimising visual impacts when viewed from surrounding land
Surface Infrastructure	• Decommissioned and removed, unless DRE agrees otherwise
Quarry Benches	• Landscaped and vegetated using native tree and understorey species
Quarry Pit Floor	• Landscaped and revegetated using improved pasture species, native trees and understorey species
Final Void	• Minimise the height and slope of batters • Minimise the drainage catchment
Community	• Ensure public safety • Minimise the adverse socio-economic effects of quarry closure

Consent Condition	Summary of Condition	Compliance	Comment
Progressive Rehabilitation			
23.	The Applicant shall rehabilitate the site 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 site that are progressively rehabilitated may be subject to further disturbance in future.*	Compliant	

Table A1.1 (Cont'd)
Compliance with Development Consent (SSD_6333)

Consent Condition	Summary of Condition	Compliance	Comment
SCHEDULE 3 ENVIRONMENTAL PERFORMANCE CONDITIONS (Cont'd)			
LANDSCAPE AND REHABILITATION (Cont'd)			
Landscape and Rehabilitation Management Plan			
24.	The Applicant shall prepare and implement a Landscape and Rehabilitation 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, unless otherwise agreed by the Secretary; (b) provide details of the conceptual final landform and associated land uses for the site; (c) describe the short, medium and long-term measures that would be implemented to ensure compliance with the rehabilitation objectives and progressive rehabilitation obligations in this consent; (d) include a detailed description of the measures that would be implemented over the next 3 years (to be updated for each 3 year period following the 3 years covered by the initial approval of the plan) including the procedures to be implemented for: • maximising the salvage of environmental resources within the approved disturbance area for beneficial reuse; • protecting vegetation and fauna habitat outside the approved disturbance area on-site; • minimising the impacts on native fauna; • landscaping the site to minimise visual and lighting impacts; • reviewing improved pasture species and application rates; • controlling weeds and feral pests; • controlling erosion; • controlling access; and • bushfire management; (e) include a program to monitor and report on the effectiveness of these measures, and progress against the performance and completion criteria; (f) identify the potential risks to the successful rehabilitation of the site, and include a description of the contingency measures that would be implemented to mitigate these risks; and (g) include details of who would be responsible for monitoring, reviewing, and implementing the plan.	Compliant	In accordance with advice provided by an ecologist, the establishment and monitoring of residual vegetation plots is to be undertaken between 3 and 5 years prior to the commencement of rehabilitation works (i.e. by 2023 at the earliest).

Table A1.1 (Cont'd)
Compliance with Development Consent (SSD_6333)

Consent Condition	Summary of Condition	Compliance	Comment
SCHEDULE 3 ENVIRONMENTAL PERFORMANCE CONDITIONS (Cont'd)			
LANDSCAPE AND REHABILITATION (Cont'd)			
Rehabilitation Bond			
25.	Within 6 months of the approval of the Landscape and Rehabilitation Management Plan, the Applicant shall lodge a Rehabilitation Bond with the Department to ensure that the rehabilitation of the site is implemented in accordance with the performance and completion criteria set out in the plan and relevant conditions of this consent. The sum of the bond shall be determined by: (a) calculating the cost of rehabilitating the site, 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. *Notes:* • *If capital and other expenditure required by the Landscape and Rehabilitation Management Plan is largely complete, the Secretary may waive the requirement for lodgement of a bond in respect of the remaining expenditure.* • *If the rehabilitation of the site is completed to the satisfaction of the Secretary, then the Secretary will release the bond. If the rehabilitation of the site is not completed to the satisfaction of the Secretary, then the Secretary will call in all or part of the bond, and arrange for the completion of the relevant works.*	Compliant	The required rehabilitation bond is in place. It is noted that the Bond (bank guarantee) was issued in September 2018, while the LRMP has initially approved in May 2016. The bond was therefore not provided to DPIE within the required six months. A further direction from DPIE for finalisation of the Bond by 30 April 2018 was not met. The Company notes that a further extension for submission of the bond was granted by DPIE and that the bond was submitted by that date. Details of that further extension and the final bond submission date will be provided in the next Independent Environmental Audit.
26.	Within 3 months of each Independent Environmental Audit (see condition 10 of Schedule 5), the Applicant shall review, and if necessary revise, the sum of the 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 rehabilitation of the site to date.	Compliant	
VISUAL			
27.	The Applicant shall implement all reasonable and feasible measures to minimise the visual and off-site lighting impacts of the development to the satisfaction of the Secretary.	Compliant	

Table A1.1 (Cont'd)
Compliance with Development Consent (SSD_6333)

Consent Condition	Summary of Condition	Compliance	Comment
SCHEDULE 3 ENVIRONMENTAL PERFORMANCE CONDITIONS (Cont'd)			
WASTE			
28.	The Applicant shall: (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.	Compliant	It was determined that a formal waste management plan would not represent a significant improvement compared to existing site management practices due to the limited volumes of waste produced at the Quarry.
29.	Except as expressly permitted in an EPL, the Applicant must not receive waste at the site for storage, treatment, processing, reprocessing or disposal.	Compliant	
LIQUID STORAGE			
30.	The Applicant shall ensure that all tanks and similar facilities for storage of liquids (other than for water) are protected by appropriate bunding, which must exceed 110% of the stored volume of the liquid.	Compliant	
DANGEROUS GOODS			
31.	The Applicant shall 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*.	Compliant	
BUSHFIRE			
32.	The Applicant shall: (a) ensure that the development is suitably equipped to respond to any fires on site; and (b) assist the Rural Fire Service and emergency services as much as possible if there is a fire in the vicinity of the site.	Compliant	

Table A1.1 (Cont'd)
Compliance with Development Consent (SSD_6333)

Consent Condition	Summary of Condition	Compliance	Comment
SCHEDULE 4 ADDITIONAL PROCEDURES			
NOTIFICATION OF LANDOWNERS			
1.	As soon as practicable after obtaining monitoring results showing: (a) an exceedance of any relevant criteria in Schedule 3, the Applicant shall 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 shall 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).	Compliant	Blast overpressure exceedances were recorded during the Audit Period. No action required as the quarry now has a written agreement with the (one) potentially impacted landowners agreeing to exceedances in noise and blast criteria.
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. If the Secretary is satisfied that an independent review is warranted, then within 2 months of the Secretary's decision, the Applicant shall: (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; and (b) give the Secretary and landowner a copy of the independent review.	Compliant	

Table A1.1 (Cont'd)
Compliance with Development Consent (SSD_6333)

Consent Condition	Summary of Condition	Compliance	Comment
SCHEDULE 5 ENVIRONMENTAL MANAGEMENT, REPORTING AND AUDITING			
NOTIFICATION OF LANDOWNERS			
Environmental Management Strategy			
1.	The Applicant shall prepare and implement 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; (b) provide the strategic framework for environmental management of the development; (c) identify the statutory approvals that apply to the development; (d) describe the role, responsibility, authority and accountability of all key personnel involved in the environmental management of the development; (e) 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 (f) 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.	Compliant	
Management Plan Requirements			
2.	The Applicant shall 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;	Compliant	

Table A1.1 (Cont'd)
Compliance with Development Consent (SSD_6333)

Consent Condition	Summary of Condition	Compliance	Comment
SCHEDULE 5 ENVIRONMENTAL MANAGEMENT, REPORTING AND AUDITING (Cont'd)			
NOTIFICATION OF LANDOWNERS (Cont'd)			
Management Plan Requirements (Cont'd)			
2. (Cont'd)	(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. *Note: The Secretary may waive some of these requirements if they are unnecessary or unwarranted for particular management plans.*		
Application of Existing Management Plans			
3.	Prior to the approval of management plans under this consent, the Applicant shall manage development undertaken pursuant to this consent in accordance with any equivalent or similar management plan/s required under development consent DA 92/164.	Compliant	
Staged Submission of Strategies, Plans or Programs			
4.	With the approval of the Secretary, the Applicant may submit any strategies, plans or programs required by this consent on a progressive basis. *Note: If the submission of any strategy, plan or program is to be staged; then the Applicant must ensure that the existing strategy, plan or program clearly describes the specific stage to which the strategy, plan or program applies, the relationship of this stage to any future stages, and the trigger for updating the strategy, plan or program.*	Compliant	

Table A1.1 (Cont'd)
Compliance with Development Consent (SSD_6333)

Consent Condition	Summary of Condition	Compliance	Comment
SCHEDULE 5 ENVIRONMENTAL MANAGEMENT, REPORTING AND AUDITING (Cont'd)			
NOTIFICATION OF LANDOWNERS (Cont'd)			
Revision of Strategies, Plans & Programs			
5.	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 shall 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. *Note: The purpose of this condition is to ensure that strategies, plans and programs are regularly updated to incorporate any measures recommended to improve environmental performance of the development.*	Compliant	
Adaptive Management			
6.	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) (a) take all reasonable and feasible steps to ensure that the exceedance ceases and does not reoccur; (b) (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) (c) implement remediation measures as directed by the Secretary; to the satisfaction of the Secretary.	Compliant	
REPORTING			
Incident Reporting			
7.	The Applicant shall immediately notify the Secretary and any other relevant agencies of any incident. Within 7 days of the date of the incident, the Applicant shall provide the Secretary and any relevant agencies with a detailed report on the incident, and such further reports as may be requested.	Compliant	Exceedances of the lower airblast overpressure criteria (115dB) during blasting are not considered to be incidents and therefore no notification was required during the reporting period.

Table A1.1 (Cont'd)
Compliance with Development Consent (SSD_6333)

Consent Condition	Summary of Condition	Compliance	Comment
SCHEDULE 5 ENVIRONMENTAL MANAGEMENT, REPORTING AND AUDITING (Cont'd)			
REPORTING (Cont'd)			
Regular Reporting			
8.	The Applicant shall 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.	Compliant	
ANNUAL REVIEW			
9.	By the end of March each year, or other timing as may be agreed by the Secretary, the Applicant shall 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 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; requirements of any plan or program required under this consent; monitoring results of previous years; and relevant predictions in the EIS; (c) identify any non-compliance over the past calendar 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.	Compliant	

Table A1.1 (Cont'd)
Compliance with Development Consent (SSD_6333)

Consent Condition	Summary of Condition	Compliance	Comment
SCHEDULE 5 ENVIRONMENTAL MANAGEMENT, REPORTING AND AUDITING (Cont'd)			
INDEPENDENT ENVIRONMENTAL AUDIT			
10.	Within a year of the date of this consent, and every 3 years thereafter, unless the Secretary directs otherwise, the Applicant shall 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; and (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. *Note: This audit team must be led by a suitably qualified auditor and include experts in any fields specified by the Secretary.*	Compliant	
11.	Within 6 weeks of completion of this audit, or as otherwise agreed by the Secretary, the Applicant shall submit a copy of the audit report to the Secretary, together with its response to any recommendations contained in the audit report.	Compliant	
ACCESS TO INFORMATION			
12.	Within 6 months of the date of this consent, the Applicant shall: (a) make the following information publicly available on its website: the documents listed in condition 2 of Schedule 2; current statutory approvals for the development; all approved strategies, plans and programs required under the conditions of this consent;	Compliant	

Table A1.1 (Cont'd)
Compliance with Development Consent (SSD_6333)

Consent Condition	Summary of Condition	Compliance	Comment
SCHEDULE 5 ENVIRONMENTAL MANAGEMENT, REPORTING AND AUDITING (Cont'd)			
ACCESS TO INFORMATION (Cont'd)			
12. (Cont'd)	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; and any other matter required by the Secretary; and (b) keep this information up-to-date, to the satisfaction of the Secretary.		

Table A2.2
Compliance with Environment Protection Licence No. 4442

<table>
<tr><th>No.</th><th>Summary of Condition</th><th>Compliance</th><th>Comment</th></tr>
<tr><td colspan="4">1 ADMINISTRATIVE CONDITIONS</td></tr>
<tr><td colspan="4">A1 What the licence authorises and regulates</td></tr>
<tr><td>A1.1</td><td>This licence authorises the carrying out of the scheduled activities listed below at the premises specified in A2. The activities are listed according to their scheduled activity classification, fee-based activity classification and the scale of the operation.

Unless otherwise further restricted by a condition of this licence, the scale at which the activity is carried out must not exceed the maximum scale specified in this condition.

<table><tr><th>Scheduled Activity</th><th>Fee Based Activity</th><th>Scale</th></tr><tr><td>Crushing, grinding or separating</td><td>Crushing, grinding or separating</td><td>> 100000 - 500000 T annual processing capacity</td></tr><tr><td>Extractive activities</td><td>Land-based extractive activity</td><td>> 100000 - 500000 T annual capacity to extract, process or store</td></tr></table></td><td>Compliant</td><td></td></tr>
<tr><td colspan="4">A2 Premises or plant to which this licence applies</td></tr>
<tr><td>A2.1</td><td>The licence applies to the following premises:

<table><tr><th>Premises Details</th></tr><tr><td>"LANGLEY HEIGHTS" HARD ROCK QUARRY</td></tr><tr><td>HARGRAVES QUARRY ROAD</td></tr><tr><td>OBERON</td></tr><tr><td>NSW 2787</td></tr><tr><td>LOT 94 DP 757067, LOT 107 DP 757067, LOT 108 DP 757067, LOT 2 DP 845776, LOT 3 DP 845776, LOT 3 DP 1087170</td></tr><tr><td>PARISH OF NORWAY, OBERON LOCAL GOVERNMENT AREA</td></tr></table></td><td>Compliant</td><td></td></tr>
<tr><td colspan="4">A3 Information supplied to the EPA</td></tr>
<tr><td>A3.1</td><td>Works and activities must be carried out in accordance with the proposal contained in the licence application, except as expressly provided by a condition of this licence.

In this condition the reference to "the licence application" includes a reference to:

a) the applications for any licences (including former pollution control approvals) which this licence replaces under the Protection of the Environment Operations (Savings and Transitional) Regulation 1998; and

b) the licence information form provided by the licensee to the EPA to assist the EPA in connection with the issuing of this licence.</td><td>Compliant</td><td></td></tr>
</table>

Table A2.2 (Cont'd)
Compliance with Environment Protection Licence No. 4442

Page 2 of 10

No.	Summary of Condition	Compliance	Comment
2 DISCHARGES TO AIR AND WATER AND APPLICATIONS TO LAND			
P1 Location of monitoring/discharge points and areas			
P1.1	The following points referred to in the table below are identified in this licence for the purposes of monitoring and/or the setting of limits for the emission of pollutants to the air from the point.	Noted	

Air

EPA identi-fication no.	Type of Monitoring Point	Type of Discharge Point	Location Description
1	Dust deposition monitoring		Labelled as "D1" in the figure provided by the licensee on 13 May 2018 titled "Licence 4442 - Environmental Monitoring Locations" (DOC18/95523-04).
2	Dust deposition monitoring		Labelled as "D2" in the figure provided by the licensee on 13 May 2018 titled "Licence 4442 - Environmental Monitoring Locations" (DOC18/95523-04)
3	Dust deposition monitoring		Labelled as "D3" in the figure provided by the licensee on 13 May 2018 titled "Licence 4442 - Environmental Monitoring Locations" (DOC18/95523-04).
4	Dust deposition monitoring		Labelled as "D4" in the figure provided by the licensee on 13 May 2018 titled "Licence 4442 - Environmental Monitoring Locations" (DOC18/95523-04).

No.	Summary of Condition	Compliance	Comment
P1.2	The following utilisation areas referred to in the table below are identified in this licence for the purposes of the monitoring and/or the setting of limits for any application of solids or liquids to the utilisation area.	Noted	
P1.3	The following points referred to in the table are identified in this licence for the purposes of the monitoring and/or the setting of limits for discharges of pollutants to water from the point.	Noted	

Water and land

EPA Identi-fication no.	Type of Monitoring Point	Type of Discharge Point	Location Description
7	Discharge to waters; water quality monitoring	Discharge to waters; water quality monitoring	Discharge pipe from 'Sedimentation Dam 3' as illustrated in the figure provided by the licensee on 13 May 2018 titled "Licence 4442 - Environmental Monitoring Locations" (DOC18/95523-04)

No.	Summary of Condition	Compliance	Comment
3 LIMIT CONDITIONS			
L1 Pollution of waters			
L1.1	Except as may be expressly provided in any other condition of this licence, the licensee must comply with section 120 of the Protection of the Environment Operations Act 1997.	Compliant	
L2 Concentration limits			
L2.1	For each monitoring/discharge point or utilisation area specified in the table\s below (by a point number), the concentration of a pollutant discharged at that point, or applied to that area, must not exceed the concentration limits specified for that pollutant in the table.	Compliant	
L2.2	Where a pH quality limit is specified in the table, the specified percentage of samples must be within the specified ranges.	Compliant	
L2.3	To avoid any doubt, this condition does not authorise the pollution of waters by any pollutant other than those specified in the table\s.	Noted	

Table A2.2 (Cont'd)
Compliance with Environment Protection Licence No. 4442

<table>
<tr><th>No.</th><th>Summary of Condition</th><th>Compliance</th><th>Comment</th></tr>
<tr><td colspan="4">3 LIMIT CONDITIONS (Cont'd)</td></tr>
<tr><td colspan="4">L2 Concentration limits (Cont'd)</td></tr>
<tr><td>L2.4</td><td>Water and/or Land Concentration Limits
POINT 7
<table>
<tr><th>Pollutant</th><th>Units of Measure</th><th>50 percentile concentration limit</th><th>90 percentile concentration limit</th><th>3DGM concentration limit</th><th>100 percentile concentration limit</th></tr>
<tr><td>Oil and Grease</td><td>milligrams per litre</td><td></td><td></td><td></td><td>10</td></tr>
<tr><td>pH</td><td>pH</td><td></td><td></td><td></td><td>6.5-8.5</td></tr>
<tr><td>Total suspended solids</td><td>milligrams per litre</td><td></td><td></td><td></td><td>50</td></tr>
</table></td><td>Compliant</td><td></td></tr>
<tr><td colspan="4">L3 Waste</td></tr>
<tr><td>L3.1</td><td>The licensee must not cause, permit or allow any waste generated outside the premises to be received at the premises for storage, treatment, processing, reprocessing or disposal or any waste generated at the premises to be disposed of at the premises, except as expressly permitted by the licence.</td><td>Compliant</td><td></td></tr>
<tr><td>L3.2</td><td>This condition only applies to the storage, treatment, processing, reprocessing or disposal of waste at the premises if it requires an environment protection licence.</td><td>Compliant</td><td></td></tr>
<tr><td colspan="4">L4 Noise Limits</td></tr>
<tr><td>L4.1</td><td>Noise from the premises must not exceed:
a) 36 dB(A) $L_{Aeq(15\ minute)}$ during the day (7am to 6pm) Monday to Friday and 7.00am to 5.00pm Saturday ; and
b) 35 dB(A) $L_{Aeq(15\ minute)}$ during the evening (6pm to 10pm) Monday to Friday; and
c) at all other times 35 dB(A) $L_{Aeq\ (15\ minute)}$, except as expressly provided by this licence.
Where L_{Aeq} means the equivalent continuous noise level – the level of noise equivalent to the energy-average of noise levels occurring over a measurement period.
Note: The above noise limits do not apply at properties where the licensee has a written agreement with the landowner to exceed the noise limits.</td><td>Compliant</td><td></td></tr>
<tr><td>L4.2</td><td>To determine compliance with condition(s) L4.1 noise must be measured at, or computed for, any affected noise sensitive location(s) (such as a residence, school or hospital). A modifying factor correction must be applied for tonal, impulsive or intermittent noise in accordance with the "Environmental Noise Management - NSW Industrial Noise Policy (January 2000)".</td><td>Compliant</td><td>In accordance with Condition 3 of Schedule 3 of SSD_6333, noise agreements were established between the Company and landowners (R5, R6 and R8 – see Figure 4) to permit exceedance of established noise criteria. The Secretary was notified of these agreements on 25 January 2017 and the discontinuation of noise monitoring was approved by the Secretary on 2 February 2017 (see Appendix 3 of the Noise Management Plan).</td></tr>
</table>

Table A2.2 (Cont'd)
Compliance with Environment Protection Licence No. 4442

No.	Summary of Condition	Compliance	Comment
3 LIMIT CONDITIONS (Cont'd)			
L4 Noise Limits (Cont'd)			
L4.2 (Cont'd)			Under the conditions of the Secretary's January 2017 approval, future noise monitoring at the Quarry will be undertaken in the event that either a noise-related complaint cannot be resolved by the Company, or a landowner requests that monitoring be undertaken to assess compliance with the relevant noise criteria.
L5 Blasting			
L5.1	The airblast overpressure level from blasting operations at the premises must not exceed 115dB (Lin Peak) at any noise sensitive locations for more than five per cent of the total number of blasts over each reporting period. Error margins associated with any monitoring equipment used to measure this are not to be taken into account in determining whether or not the limit has been exceeded.	Compliant	Ten production blasts were undertaken during the reporting period. One blast exceeded the 115 dB(Lin Peak) limit, representing 10% of the total blasts. The affected residence is subject to a blasting agreement. Based on site blasting laws, it is not anticipated that this exceedance was experienced at any other private residences.
L5.2	The airblast overpressure level from blasting operations at the premises must not exceed 120dB (Lin Peak) at any time at any noise sensitive locations. Error margins associated with any monitoring equipment used to measure this are not to be taken into account in determining whether or not the limit has been exceeded.	Compliant	
L5.3	Ground vibration peak particle velocity from the blasting operations at the premises must not exceed 5mm/sec at any noise sensitive locations for more than five per cent of the total number of blasts over each reporting period. Error margins associated with any monitoring equipment used to measure this are not to be taken into account in determining whether or not the limit has been exceeded.	Compliant	
L5.4	Ground vibration peak particle velocity from the blasting operations at the premises must not exceed 10mm/sec at any time at any noise sensitive locations. Error margins associated with any monitoring equipment used to measure this are not to be taken into account in determining whether or not the limit has been exceeded.	Compliant	
Note:	1. The airblast overpressure and ground vibration levels in conditions L5.1 to L5.4 do not apply at noise sensitive locations that are owned by the licensee or subject to a private agreement, relating to airblast overpressure and ground vibration levels, between the licensee and land owner. 2. "Noise sensitive locations" includes buildings used as a residence, hospital, school, child care centres, places of public worship and nursing homes. A noise sensitive location includes the land within 30 metres of the building.	Noted	

Table A2.2 (Cont'd)
Compliance with Environment Protection Licence No. 4442

No.	Summary of Condition	Compliance	Comment
3 LIMIT CONDITIONS (Cont'd)			
L6 Hours of operation			
L6.1	All work at the premises must be conducted between the following hours: Quarrying and processing 7.00am to 6.00pm Mondays to Fridays, 7.00am to 5.00pm Saturdays. Other activities (loading trucks/product delivery) 6.00am to 10.00pm Mondays to Fridays, 6.00am to 5.00pm Saturdays.	Compliant	
4 OPERATING CONDITIONS			
O1 Activities must be carried out in a competent manner			
O1.1	Licensed activities must be carried out in a competent manner. This includes: a) the processing, handling, movement and storage of materials and substances used to carry out the activity; and b) the treatment, storage, processing, reprocessing, transport and disposal of waste generated by the activity.	Compliant	
O2 Maintenance of plant and equipment			
O2.1	All plant and equipment installed at the premises or used in connection with the licensed activity: a) must be maintained in a proper and efficient condition; and b) must be operated in a proper and efficient manner.	Compliant	
O3 Dust			
O3.1	The premises must be maintained in a condition which minimises or prevents the emission of dust from the premises.	Compliant	
O4 Other operating conditions			
O4.1	The sediment basin identified as EPA identification no 7 (licence discharge point 7) under condition P1.3 must be drained or pumped out within 5 days following rainfall in order to maintain the design storage capacity of the basin.	Compliant	
O4.2	Water discharged to comply with condition O4.1 may only be discharged from sediment ponds to waters via licence discharge point 7 when the water quality complies with the discharge limits specified under condition L2.4 for licence discharge point 7.	Compliant	
O4.3	The licensee must undertake maintenance to desilt all sediment ponds to retain their design storage capacities.	Compliant	

Table A2.2 (Cont'd)
Compliance with Environment Protection Licence No. 4442

No.	Summary of Condition	Compliance	Comment
5 MONITORING AND RECORDING CONDITIONS			
M1 Monitoring records			
M1.1	The results of any monitoring required to be conducted by this licence or a load calculation protocol must be recorded and retained as set out in this condition.	Compliant	
M1.2	All records required to be kept by this licence must be: a) in a legible form, or in a form that can readily be reduced to a legible form; b) kept for at least 4 years after the monitoring or event to which they relate took place; and c) produced in a legible form to any authorised officer of the EPA who asks to see them.	Compliant	
M1.3	The following records must be kept in respect of any samples required to be collected for the purposes of this licence: a) the date(s) on which the sample was taken; b) the time(s) at which the sample was collected; c) the point at which the sample was taken; and d) the name of the person who collected the sample.	Compliant	
M2 Requirement to monitor concentration of pollutants discharged			
M2.1	For each monitoring/discharge point or utilisation area specified below (by a point number), the licensee must monitor (by sampling and obtaining results by analysis) the concentration of each pollutant specified in Column 1. The licensee must use the sampling method, units of measure, and sample at the frequency, specified opposite in the other columns:	Noted	
M2.2	Air Monitoring Requirements	Non-compliant	Deposited dust samples not collected at monthly frequency specified for Monitoring Points 1 - 4. Deposited dust samples not collected within 30 +/- 2 days from the previous collection date (i.e. non-compliance with exposure period). This was due to the travel restrictions associated with the COVID-19 pandemic.

POINT 1

Pollutant	Units of measure	Frequency	Sampling Method
Particulates - Deposited Matter	grams per square metre per month	Monthly	AM-19

POINT 2

Pollutant	Units of measure	Frequency	Sampling Method
Particulates - Deposited Matter	grams per square metre per month	Monthly	AM-19

POINT 3

Pollutant	Units of measure	Frequency	Sampling Method
Particulates - Deposited Matter	grams per square metre per month	Monthly	AM-19

POINT 4

Pollutant	Units of measure	Frequency	Sampling Method
Particulates - Deposited Matter	grams per square metre per month	Monthly	AM-19

No.	Summary of Condition	Compliance	Comment
M2.3	Water and/ or Land Monitoring Requirements	Compliant	

POINT 7

Pollutant	Units of measure	Frequency	Sampling Method
Oil and Grease	milligrams per litre	Weekly during any discharge	Grab sample
pH	pH	Weekly during any discharge	Grab sample
Total suspended solids	milligrams per litre	Weekly during any discharge	Grab sample

Table A2.2 (Cont'd)
Compliance with Environment Protection Licence No. 4442

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No.	Summary of Condition	Compliance	Comment
5 MONITORING AND RECORDING CONDITIONS (Cont'd)			
M3 Testing methods - concentration limits			
M3.1	Monitoring for the concentration of a pollutant emitted to the air required to be conducted by this licence must be done in accordance with: a) any methodology which is required by or under the Act to be used for the testing of the concentration of the pollutant; or b) if no such requirement is imposed by or under the Act, any methodology which a condition of this licence requires to be used for that testing; or c) if no such requirement is imposed by or under the Act or by a condition of this licence, any methodology approved in writing by the EPA for the purposes of that testing prior to the testing taking place.	Compliant	
Note:	The *Protection of the Environment Operations (Clean Air) Regulation 2010* requires testing for certain purposes to be conducted in accordance with test methods contained in the publication "Approved Methods for the Sampling and Analysis of Air Pollutants in NSW".	Noted	
M3.2	Subject to any express provision to the contrary in this licence, monitoring for the concentration of a pollutant discharged to waters or applied to a utilisation area must be done in accordance with the Approved Methods Publication unless another method has been approved by the EPA in writing before any tests are conducted.	Compliant	
M4 Recording of pollution complaints			
M4.1	The licensee must keep a legible record of all complaints made to the licensee or any employee or agent of the licensee in relation to pollution arising from any activity to which this licence applies.	Compliant	
M4.2	The record must include details of the following: a) the date and time of the complaint; b) the method by which the complaint was made; c) any personal details of the complainant which were provided by the complainant or, if no such details were provided, a note to that effect; d) the nature of the complaint; e) the action taken by the licensee in relation to the complaint, including any follow-up contact with the complainant; and f) if no action was taken by the licensee, the reasons why no action was taken.	Compliant	
M4.3	The record of a complaint must be kept for at least 4 years after the complaint was made.	Compliant	
M4.4	The record must be produced to any authorised officer of the EPA who asks to see them.	Compliant	

Table A2.2 (Cont'd)
Compliance with Environment Protection Licence No. 4442

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No.	Summary of Condition	Compliance	Comment
5 MONITORING AND RECORDING CONDITIONS (Cont'd)			
M5 Telephone complaints line			
M5.1	The licensee must operate during its operating hours a telephone complaints line for the purpose of receiving any complaints from members of the public in relation to activities conducted at the premises or by the vehicle or mobile plant, unless otherwise specified in the licence.	Compliant	
M5.2	The licensee must notify the public of the complaints line telephone number and the fact that it is a complaints line so that the impacted community knows how to make a complaint.	Compliant	
M5.3	The preceding two conditions do not apply until 3 months after: the date of the issue of this licence.	Noted	
6 REPORTING CONDITIONS			
R1 Annual return documents			
R1.1	The licensee must complete and supply to the EPA an Annual Return in the approved form comprising: 1. a Statement of Compliance, 2. a Monitoring and Complaints Summary, 3. a Statement of Compliance - Licence Conditions, 4. a Statement of Compliance - Load based Fee, 5. a Statement of Compliance - Requirement to Prepare Pollution Incident Response Management Plan, 6. a Statement of Compliance - Requirement to Publish Pollution Monitoring Data; and 7. a Statement of Compliance - Environmental Management Systems and Practices. At the end of each reporting period, the EPA will provide to the licensee a copy of the form that must be completed and returned to the EPA.	Compliant	
R1.2	An Annual Return must be prepared in respect of each reporting period, except as provided below.	Compliant	
Note:	The term "reporting period" is defined in the dictionary at the end of this licence. Do not complete the Annual Return until after the end of the reporting period.	Noted	
R1.3	Where this licence is transferred from the licensee to a new licensee: a) the transferring licensee must prepare an Annual Return for the period commencing on the first day of the reporting period and ending on the date the application for the transfer of the licence to the new licensee is granted; and b) the new licensee must prepare an Annual Return for the period commencing on the date the application for the transfer of the licence is granted and ending on the last day of the reporting period.	Noted	
Note:	An application to transfer a licence must be made in the approved form for this purpose.	Noted	

Table A2.2 (Cont'd)
Compliance with Environment Protection Licence No. 4442

No.	Summary of Condition	Compliance	Comment
6 REPORTING CONDITIONS (Cont'd)			
R1 Annual return documents (Cont'd)			
R1.4	Where this licence is surrendered by the licensee or revoked by the EPA or Minister, the licensee must prepare an Annual Return in respect of the period commencing on the first day of the reporting period and ending on: a) in relation to the surrender of a licence - the date when notice in writing of approval of the surrender is given; or b) in relation to the revocation of the licence - the date from which notice revoking the licence operates.	Noted	
R1.5	The Annual Return for the reporting period must be supplied to the EPA via eConnect EPA or by registered post not later than 60 days after the end of each reporting period or in the case of a transferring licence not later than 60 days after the date the transfer was granted (the 'due date').	Compliant	
R1.6	The licensee must retain a copy of the Annual Return supplied to the EPA for a period of at least 4 years after the Annual Return was due to be supplied to the EPA.	Compliant	
R1.7	Within the Annual Return, the Statements of Compliance must be certified and the Monitoring and Complaints Summary must be signed by: a) the licence holder; or b) by a person approved in writing by the EPA to sign on behalf of the licence holder.	Compliant	
R2 Notification of environmental harm			
R2.1	R2.1 Notifications must be made by telephoning the Environment Line service on 131 555.	Noted	
Note:	The licensee or its employees must notify all relevant authorities of incidents causing or threatening material harm to the environment immediately after the person becomes aware of the incident in accordance with the requirements of Part 5.7 of the Act.	Noted	
R2.2	R2.2 The licensee must provide written details of the notification to the EPA within 7 days of the date on which the incident occurred.	Noted	
R3 Written report			
R3.1	Where an authorised officer of the EPA suspects on reasonable grounds that: a) where this licence applies to premises, an event has occurred at the premises; or b) where this licence applies to vehicles or mobile plant, an event has occurred in connection with the carrying out of the activities authorised by this licence, and the event has caused, is causing or is likely to cause material harm to the environment (whether the harm occurs on or off premises to which the licence applies), the authorised officer may request a written report of the event.	Noted	

Table A2.2 (Cont'd)
Compliance with Environment Protection Licence No. 4442

No.	Summary of Condition	Compliance	Comment
6 REPORTING CONDITIONS (Cont'd)			
R3 Written report (Cont'd)			
R3.2	The licensee must make all reasonable inquiries in relation to the event and supply the report to the EPA within such time as may be specified in the request.	Noted	
R3.3	The request may require a report which includes any or all of the following information: a) the cause, time and duration of the event; b) the type, volume and concentration of every pollutant discharged as a result of the event; c) the name, address and business hours telephone number of employees or agents of the licensee, or a specified class of them, who witnessed the event; d) the name, address and business hours telephone number of every other person (of whom the licensee is aware) who witnessed the event, unless the licensee has been unable to obtain that information after making reasonable effort; e) action taken by the licensee in relation to the event, including any follow-up contact with any complainants; f) details of any measure taken or proposed to be taken to prevent or mitigate against a recurrence of such an event; and g) any other relevant matters.	Noted	
R3.4	The EPA may make a written request for further details in relation to any of the above matters if it is not satisfied with the report provided by the licensee. The licensee must provide such further details to the EPA within the time specified in the request.	Noted	
7 GENERAL CONDITIONS			
G1 Copy of licence kept at the premises or plant			
G1.1	A copy of this licence must be kept at the premises to which the licence applies.	Compliant	
G1.2	The licence must be produced to any authorised officer of the EPA who asks to see it.	Noted	
G1.3	The licence must be available for inspection by any employee or agent of the licensee working at the premises.	Compliant	

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Appendix 2

Development Consent SSD_6333

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Development Consent

Section 89E of the *Environmental Planning and Assessment Act 1979*

As delegate of the Minister for Planning, I approve the development application referred to in Schedule 1, subject to the conditions in Schedules 2 to 5.

These conditions are required to:

- prevent, minimise, and/or offset adverse environmental impacts;
- set standards and performance measures for acceptable environmental performance;
- require regular monitoring and reporting; and
- provide for the on-going environmental management of the development.

Oliver Holm
Executive Director
Resource Assessments and Compliance

Sydney 14 / 9 / 2015

SCHEDULE 1

Application Number	SSD_6333
Applicant	Oberon Quarries Pty Ltd
Consent Authority:	Minister for Planning
Land:	Lot 3 DP1087170 (formerly Lot 1 DP845776) Lot 2 DP1087170 Lot 3 DP845776 Lot 94 DP757067 Lot 107 DP757067 Lot 108 DP757067
Development	Oberon Quarry Continuation Project

TABLE OF CONTENTS

DEFINITIONS

Annual Review	The review required by condition 9 of Schedule 5
Applicant	Oberon Quarries Pty Ltd, or any other person/s who rely on this consent to carry out the development that is subject to this consent
BCA	Building Code of Australia
Conditions of consent	Conditions contained in Schedules 2 to 5
Construction	The demolition of buildings or works, carrying out of works and erection of buildings covered by this consent
Council	Oberon Council
Day	The period from 7am to 6pm on Monday to Saturday, and 8am to 6pm on Sundays and Public Holidays
Department	Department of Planning and Environment
Development	The development as described in the documents in condition 2 of Schedule 2
DPI-Water	Department of Primary Industries - Water
DRE	Division of Resources and Energy (within the Department of Trade and Investment, Regional Infrastructure and Services)
EIS	Environmental Impact Statement titled *Proposed Extended Life of Operations and Development Changes to Oberon Quarry*, dated January 2015, as modified by the Response to Submissions titled, *SSD 6333 – Oberon Quarry Continuation Project Modification*, dated 27 July 2015
EPA	NSW Environment Protection Authority
EP&A Act	*Environmental Planning and Assessment Act 1979*
EP&A Regulation	*Environmental Planning and Assessment Regulation 2000*
EPL	Environment Protection Licence issued under the POEO Act
Evening	The period from 6pm to 10pm
Feasible	Feasible relates to engineering considerations and what is practical to build or implement
GPS	Global Positioning System
Incident	A set of circumstances that: • causes or threatens to cause material harm to the environment; and/or • breaches or exceeds the limits or performance measures/criteria in this consent
Laden trucks	Trucks transporting quarry products from the site
Land	As defined in the EP&A Act, except where the term is used in the noise and air quality conditions in Schedules 3 and 4 of this consent, where it is defined as the whole of a lot, or contiguous lots owned by the same landowner, in a current plan registered at the Land Titles Office at the date of this consent
m AHD	metres Australian Height Datum
Material harm to the environment	Actual or potential harm to the health or safety of human beings or to ecosystems that is not trivial
Minister	Minister for Planning, or delegate
Mitigation	Activities associated with reducing the impacts of the development prior to or during those impacts occurring
Night	The period from 10pm to 7am on Monday to Saturday, and 10pm to 8am on Sundays and Public Holidays
POEO Act	*Protection of the Environment Operations Act 1997*
Privately-owned land	Land that is not owned by a public agency or the Applicant (or its subsidiary)
Public infrastructure	Linear and other infrastructure that provides services to the general public, such as roads, railways, water supply, drainage, sewerage, gas supply, electricity, telephone, telecommunications, etc.
Quarrying operations	The extraction, processing and transportation of extractive materials on the site and the associated removal of vegetation, topsoil and overburden
Reasonable	Reasonable relates to the application of judgement in arriving at a decision, taking into account: mitigation benefits, cost of mitigation versus benefits provided, community views and the nature and extent of potential improvements
Rehabilitation	The restoration of land disturbed by the development to a good condition and for the purpose of establishing a safe, stable and non-polluting environment
RMS	Roads and Maritime Services
Secretary	Secretary of the Department, or nominee
Site	The land described in Schedule 1
Statement of Commitments	The Applicant's commitments in Appendix 2

SCHEDULE 2
ADMINISTRATIVE CONDITIONS

OBLIGATION TO MINIMISE HARM TO THE ENVIRONMENT

1. In addition to meeting the specific performance measures and criteria established under this consent, the Applicant shall 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.

TERMS OF CONSENT

2. The Applicant shall carry out the development:

   (a) generally in accordance with the EIS;
   (b) in accordance with the Development Layout and Statement of Commitments; and
   (c) in accordance with the conditions of this consent.

   Notes:
   - *The Development Layout is shown in the figures in Appendix 1.*
   - *The Statement of Commitments is reproduced in Appendix 2.*

3. If there is any inconsistency between the above documents, the most recent document shall prevail to the extent of the inconsistency. However, the conditions of this consent shall prevail to the extent of any inconsistency.

4. The Applicant shall 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.

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 shall lapse.

LIMITS ON CONSENT

Quarrying Operations

6. The Applicant shall not extract extractive materials below a level of 1125 m AHD.

7. The Applicant may carry out quarrying operations on the site until 30 August 2045.

   Note: Under this consent, the Applicant is required to rehabilitate the site and carry out additional undertakings to the satisfaction of the Secretary. Consequently, this consent will continue to apply in all other respects other than the right to conduct quarrying operations until the rehabilitation of the site and those undertakings have been carried out to a satisfactory standard.

Production Limits

8. The Applicant shall not transport more than 400,000 tonnes of quarry products from the site in any calendar year.

9. The Applicant shall not transport more than 3,000 tonnes of quarry products from the site on any day.

SURRENDER OF EXISTING DEVELOPMENT CONSENTS

10. Within 6 months of the date of this consent, or as otherwise agreed by the Secretary, the Applicant shall surrender the development consent (DA 92/164) for the existing operations on the site in accordance with clause 97 of the EP&A Regulation.

    Note: This requirement does not extend to the surrender of construction and occupation certificates for existing and proposed building works under Part 4A of the EP&A Act. Surrendering of consent should not be understood as implying that works legally constructed under a valid consent can no longer be legally maintained or used.

11. Prior to the surrender of development consent DA 92/164, the conditions of this consent shall prevail to the extent of any inconsistency with the conditions of development consent DA 92/164.

STRUCTURAL ADEQUACY

12. The Applicant shall 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.

    Notes:
    - *Under Part 4A of the EP&A Act, the Applicant is required to obtain construction and occupation certificates for the proposed building works; and*
    - *Part 8 of the EP&A Regulation sets out the requirements for the certification of the development.*

DEMOLITION

13. The Applicant shall ensure that all demolition work is carried out in accordance with *Australian Standard AS 2601-2001: The Demolition of Structures*, or its latest version.

PROTECTION OF PUBLIC INFRASTRUCTURE

14. The Applicant shall:
    (a) repair, or pay the full costs associated with repairing, any public infrastructure that is damaged by the development; and
    (b) 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 damage to roads caused as a result of general road usage.

OPERATION OF PLANT AND EQUIPMENT

15. The Applicant shall 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.

PRODUCTION DATA

16. The Applicant shall:
    (a) provide annual quarry production data to DRE 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).

IDENTIFICATION OF APPROVED EXTRACTION LIMITS

17. By 30 November 2015, unless otherwise agreed with the Secretary, the Applicant shall:
    (a) engage a registered surveyor to mark out the boundaries of the approved limits of extraction within the development area; and
    (b) submit a survey plan of these boundaries with applicable GPS coordinates to the Secretary.

18. While quarrying operations are being carried out, the Applicant shall 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.

DEVELOPMENT CONTRIBUTIONS

19. The Applicant shall pay Council road maintenance contributions for the maintenance/repair of public roads. The contribution shall be:
    (a) paid at a rate of $0.482 per tonne of extractive materials hauled from the site;
    (b) paid every month based on the material transported in the preceding month; and
    (c) indexed annually to changes in the Consumer Price Index (All Groups).

    Notes: If the parties are not able to agree on any aspect of the road maintenance contributions, either party may refer the matter to the Secretary for resolution.

SCHEDULE 3
ENVIRONMENTAL PERFORMANCE CONDITIONS

NOISE

Hours of Operation

1. The Applicant shall comply with the operating hours set out in Table 1.

Table 1: Operating Hours

Activity	*Operating Hours*
Extraction operations	7 am to 6 pm Monday to Friday 7 am to 5 pm Saturday
Loading and dispatch	6 am to 10 pm Monday to Friday 6 am to 5 pm Saturday
Construction and maintenance activities	7 am to 6 pm Monday to Friday 7 am to 4 pm Saturday
Blasting	9 am to 5 pm Monday to Saturday

Note: The Applicant may carry out other activities e.g. maintenance, on the site provided that these activities are conducted in a manner that is inaudible at all privately-owned residences.

2. The following activities may be carried out on the site outside the hours specified in condition 1:
   (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 shall notify the Secretary and affected residents prior to undertaking the activities, or as soon as is practical thereafter.

Noise Impact Assessment Criteria

3. The Applicant shall ensure that the noise generated by the development does not exceed the criteria in Table 2 at any residence on privately-owned land.

Table 2: Noise criteria dB(A)

Receiver	*Day / Evening*	*Night*	
	$L_{Aeq(15\ min)}$	$L_{Aeq(15\ min)}$	$L_{A1(max)}$
All privately-owned residences	35	35	45

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, these criteria do not apply if the Applicant has an agreement with the relevant landowner to exceed the noise criteria in Table 2, and the Applicant has advised the Department in writing of the terms of this agreement.

Operating Conditions

4. The Applicant shall:
   (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) carry out noise monitoring (at least every 3 months, unless otherwise approved by 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 on site to ensure compliance with the relevant conditions of this consent,

   to the satisfaction of the Secretary.

Noise Management Plan

5. The Applicant shall prepare and implement a Noise 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, unless otherwise agreed by the Secretary;
(b) describe the measures that would be implemented to ensure compliance with the noise criteria and operating conditions of this consent;
(c) describe the proposed noise management system in detail; and
(d) include a monitoring program to be implemented to measure noise from the development against the noise criteria in Table 2, and which evaluates and reports on the effectiveness of the noise management system on site.

BLASTING

Blasting Impact Assessment Criteria

6. The Applicant shall ensure that blasting on site does not cause any exceedance of the criteria in Table 3.

Table 3: Blasting Criteria

Location	***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

However, these criteria do not apply if the Applicant has a written agreement with the relevant landowner to exceed the limits in Table 3, and the Applicant has advised the Department in writing of the terms of this agreement.

Blasting Frequency

7. The Applicant may carry out a maximum of 2 blasts per week, unless an additional blast is required following a blast misfire. This condition does not apply to blasts required to ensure the safety of the quarry or workers on site.

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.

Operating Conditions

8. During blasting operations, the Applicant shall:
(a) implement best management practice to:
- protect the safety of people and livestock in areas surrounding blasting operations;
- protect public or private infrastructure/property in the surrounding area from damage from blasting operations; and
- minimise dust and fume emissions from blasting;

(b) operate a suitable system to enable the local community to get up-to-date information on the proposed blasting schedule on site; and
(c) carry out regular monitoring to determine whether the development is complying with the relevant conditions of this consent,

to the satisfaction of the Secretary.

Blast Management Plan

9. The Applicant shall prepare and implement 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, unless otherwise agreed by the Secretary;
(b) describe the measures that would be implemented to ensure compliance with the blast criteria and operating conditions in conditions 7 and 8 above;
(c) include a monitoring program for evaluating and reporting on compliance with the blasting criteria in this consent;
(d) include community notification procedures for the blasting schedule; and
(e) include a protocol for investigating and responding to complaints.

AIR QUALITY

Air Quality Impact Assessment Criteria

10. The Applicant shall 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 4 at any residence on privately-owned land.

Table 4: Air Quality Criteria

Pollutant	***Averaging Period***	***Criterion***	
Particulate matter < 10 µm (PM_{10})	Annual	[a,d] 30 µg/m^3	
Particulate matter < 10 µm (PM_{10})	24 hour	[b] 50 µg/m^3	
Total suspended particulates (TSP)	Annual	[a,d] 90 µg/m^3	
[c] Deposited dust	Annual	[b] 2 g/m^2/month	[a,d] 4 g/m^2/month

Notes to Table 4:
a Cumulative impact (ie increase in concentrations due to the development plus background concentrations due to all other sources).
[b] Incremental impact (ie increase in concentrations due to the development alone, 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 by the Secretary.
e "Reasonable and feasible avoidance measures" includes, but is not limited to, the operational requirements in conditions 11 and 12 to develop and implement an air quality management system that ensures operational responses to the risks of exceedance of the criteria.

Operating Conditions

11. The Applicant shall:
    (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 on site 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 note d under Table 4);
    (d) monitor and report on compliance with the relevant air quality conditions in this consent;
    (e) implement all reasonable and feasible measures to minimise the release of greenhouse gas emissions from the site; and
    (f) minimise the area of surface disturbance and undertake progressive rehabilitation of the site,

    to the satisfaction of the Secretary.

Air Quality Management Plan

12. The Applicant shall prepare and implement 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, unless otherwise agreed by the Secretary;
    (b) describe the measures that would be implemented to ensure compliance with the air quality criteria and operating conditions of this consent;
    (c) describe the proposed air quality management system;
    (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.

Meteorological Monitoring

13. For the life of the development, the Applicant shall 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.

SOIL AND WATER

Water Supply

14. The Applicant shall 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.

    Note: Under the Water Act 1912 and/or the Water Management Act 2000, the Applicant is required to obtain the necessary water licences for the development, including in respect of the extraction and/or interception of groundwater.

Water Pollution

15. Unless an EPL authorises otherwise, the Applicant shall comply with Section 120 of the POEO Act.

Water Management Plan

16. The Applicant shall prepare and implement a Water Management Plan for the development to the satisfaction of the Secretary. This plan must:
    (a) be prepared by suitably qualified person/s approved by the Secretary;
    (b) be prepared in consultation with the EPA and DPI-Water;
    (c) be submitted to the Secretary for approval within 6 months of the date of this consent, unless otherwise agreed by the Secretary;
    (d) include a:
        (i) Site Water Balance that includes:
            - details of:
                - sources and security of water supply;
                - water use and management on site;
                - any off-site water transfers; and
                - reporting procedures.
            - measures that would be implemented to minimise clean water use on site;

        (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:
                - clean water diversion system;
                - erosion and sediment controls;
                - dirty water management system; and
                - water storages; and
            - a program to monitor and report on:
                - any surface water discharges;
                - the effectiveness of the water management system;
                - maintaining sufficient dirty water storage capacity to avoid discharges of sediment-laden water; and
                - surface water flows and quality in local watercourses;

        (iii) Groundwater Management Plan, that includes:
            - baseline data on groundwater levels, yield and quality in local aquifers and privately-owned groundwater bores that could be potentially affected by the development;
            - a program to monitor and report on groundwater inflows to the quarry pit and the impacts of the development on surrounding aquifers and privately-owned groundwater bores; and
            - an analysis of the monitoring results to predict long-term water levels within the quarry void; and

        (iv) Surface and Ground Water Contingency Strategy, that includes:
            - a protocol for the investigation, notification and mitigation of identified impacts on surface water flows and quality in water bodies and/or groundwater levels, yield and quality in local aquifers and privately-owned groundwater bores that could be potentially affected by the development; and
            - the procedures that would be followed if any unforeseen impacts are detected during the development.

TRANSPORT

Monitoring of Product Transport

17. The Applicant shall keep accurate records of all truck movements to and from the site (hourly, daily, weekly, monthly and annually) and publish a summary of records on its website every 6 months.

Operating Conditions

18. The Applicant shall ensure that:
    (a) all reasonable measures are taken such that laden trucks have appropriate signage, including a contact phone number, so they can be easily identified by road users;
    (b) all laden trucks entering or exiting the site have their loads covered;
    (c) all laden trucks exiting the site are cleaned of material that may fall on the road, before leaving the site;
    (d) during the periods 6 am to 7 am and 6 pm to 10 pm, a maximum of 4 laden vehicles per hour shall leave the site; and
    (e) no trucks queue at the entrance to the site before 6 am.

Further Road Maintenance and Contributions

19. Within 6 months from the date of this consent the Applicant shall provide and install "Intersection Advance" (G1-207) warning signage on the eastbound approach to the intersection of Duckmaloi Road and Titania Road.

20. Within two weeks of receiving a written request from Council, or as otherwise agreed by Council, the Applicant shall:
    (a) provide Council with sufficient 14/7 mm sealing aggregate for the intersections of Shooters Hill and Edith Roads; Edith and Titania Roads; and Titania and Duckmaloi Roads; and
    (b) provide Council with sufficient DGB 20 road base to reconstruct the pavement at the intersection of Edith and Titania Roads to a depth of 200 mm.

    Notes:
    - *The minimum required quantities of materials for each intersection listed in 20(a) and 20(b) are shown in Appendix 5.*
    - *If the parties are not able to agree on any aspect of the maintenance contributions, either party may refer the matter to the Secretary for resolution.*

Transport Management Plan

21. The Applicant shall prepare and implement a Transport 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, unless otherwise agreed by the Secretary;
    (b) include a Drivers' Code of Conduct to minimise the impacts of development-related trucks on local residences and road users; and
    (c) describe the measures that would be put in place to ensure compliance with the Drivers' Code of Conduct.

LANDSCAPE AND REHABILITATION

Rehabilitation Objectives

22. The Applicant shall rehabilitate the site to the satisfaction of the Secretary. This rehabilitation must be generally consistent with the rehabilitation strategy set out in the EIS and the conceptual final landform shown in Appendix 3 and must comply with the objectives in Table 5.

Table 5: Rehabilitation Objectives

Feature	***Objective***
Site (as a whole)	• Safe, stable and non-polluting • Final landform integrated with surrounding natural landforms as far as is reasonable and feasible, and minimising visual impacts when viewed from surrounding land
Surface Infrastructure	• Decommissioned and removed, unless DRE agrees otherwise
Quarry Benches	• Landscaped and vegetated using native tree and understorey species

Quarry Pit Floor	• Landscaped and revegetated using improved pasture species, native trees and understorey species
Final Void	• Minimise the height and slope of batters • Minimise the drainage catchment
Community	• Ensure public safety • Minimise the adverse socio-economic effects of quarry closure

Progressive Rehabilitation

23. The Applicant shall rehabilitate the site 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 site that are progressively rehabilitated may be subject to further disturbance in future.

Landscape and Rehabilitation Management Plan

24. The Applicant shall prepare and implement a Landscape and Rehabilitation 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, unless otherwise agreed by the Secretary;
(b) provide details of the conceptual final landform and associated land uses for the site;
(c) describe the short, medium and long-term measures that would be implemented to ensure compliance with the rehabilitation objectives and progressive rehabilitation obligations in this consent;
(d) include a detailed description of the measures that would be implemented over the next 3 years (to be updated for each 3 year period following the 3 years covered by the initial approval of the plan) including the procedures to be implemented for:
    - maximising the salvage of environmental resources within the approved disturbance area for beneficial reuse;
    - protecting vegetation and fauna habitat outside the approved disturbance area on-site;
    - minimising the impacts on native fauna;
    - landscaping the site to minimise visual and lighting impacts;
    - reviewing improved pasture species and application rates;
    - controlling weeds and feral pests;
    - controlling erosion;
    - controlling access; and
    - bushfire management;
(e) include a program to monitor and report on the effectiveness of these measures, and progress against the performance and completion criteria;
(f) identify the potential risks to the successful rehabilitation of the site, and include a description of the contingency measures that would be implemented to mitigate these risks; and
(g) include details of who would be responsible for monitoring, reviewing, and implementing the plan.

Rehabilitation Bond

25. Within 6 months of the approval of the Landscape and Rehabilitation Management Plan, the Applicant shall lodge a Rehabilitation Bond with the Department to ensure that the rehabilitation of the site is implemented in accordance with the performance and completion criteria set out in the plan and relevant conditions of this consent. The sum of the bond shall be determined by:
(a) calculating the cost of rehabilitating the site, 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.

Notes:
- *If capital and other expenditure required by the Landscape and Rehabilitation Management Plan is largely complete, the Secretary may waive the requirement for lodgement of a bond in respect of the remaining expenditure.*
- *If the rehabilitation of the site is completed to the satisfaction of the Secretary, then the Secretary will release the bond. If the rehabilitation of the site is not completed to the satisfaction of the Secretary, then the Secretary will call in all or part of the bond, and arrange for the completion of the relevant works.*

26. Within 3 months of each Independent Environmental Audit (see condition 10 of Schedule 5), the Applicant shall review, and if necessary revise, the sum of the 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 rehabilitation of the site to date.

VISUAL

27. The Applicant shall implement all reasonable and feasible measures to minimise the visual and off-site lighting impacts of the development to the satisfaction of the Secretary.

WASTE

28. The Applicant shall:
    (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.

29. Except as expressly permitted in an EPL, the Applicant must not receive waste at the site for storage, treatment, processing, reprocessing or disposal.

LIQUID STORAGE

30. The Applicant shall ensure that all tanks and similar facilities for storage of liquids (other than for water) are protected by appropriate bunding, which must exceed 110% of the stored volume of the liquid.

DANGEROUS GOODS

31. The Applicant shall 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*.

BUSHFIRE

32. The Applicant shall:
    (a) ensure that the development is suitably equipped to respond to any fires on site; and
    (b) assist the Rural Fire Service and emergency services as much as possible if there is a fire in the vicinity of the site.

SCHEDULE 4
ADDITIONAL PROCEDURES

NOTIFICATION OF LANDOWNERS

1. As soon as practicable after obtaining monitoring results showing:
   (a) an exceedance of any relevant criteria in Schedule 3, the Applicant shall 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 shall 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).

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.

   If the Secretary is satisfied that an independent review is warranted, then within 2 months of the Secretary's decision, the Applicant shall:
   (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; and
   (b) give the Secretary and landowner a copy of the independent review.

SCHEDULE 5
ENVIRONMENTAL MANAGEMENT, REPORTING AND AUDITING

ENVIRONMENTAL MANAGEMENT

Environmental Management Strategy

1. The Applicant shall prepare and implement 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;
   (b) provide the strategic framework for environmental management of the development;
   (c) identify the statutory approvals that apply to the development;
   (d) describe the role, responsibility, authority and accountability of all key personnel involved in the environmental management of the development;
   (e) 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

   (f) 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.

Management Plan Requirements

2. The Applicant shall 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.

   Note: The Secretary may waive some of these requirements if they are unnecessary or unwarranted for particular management plans.

Application of Existing Management Plans

3. Prior to the approval of management plans under this consent, the Applicant shall manage development undertaken pursuant to this consent in accordance with any equivalent or similar management plan/s required under development consent DA 92/164.

Staged Submission of Strategies, Plans or Programs

4. With the approval of the Secretary, the Applicant may submit any strategies, plans or programs required by this consent on a progressive basis.

   Note: If the submission of any strategy, plan or program is to be staged; then the Applicant must ensure that the existing strategy, plan or program clearly describes the specific stage to which the strategy, plan or program *applies, the relationship of this stage to any future stages, and the trigger for updating the strategy, plan or program.*

Revision of Strategies, Plans & Programs

5. 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 shall 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.

   Note: The purpose of this condition is to ensure that strategies, plans and programs are regularly updated to incorporate any measures recommended to improve environmental performance of the development.

Adaptive Management

6. 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.

REPORTING

Incident Reporting

7. The Applicant shall immediately notify the Secretary and any other relevant agencies of any incident. Within 7 days of the date of the incident, the Applicant shall provide the Secretary and any relevant agencies with a detailed report on the incident, and such further reports as may be requested.

Regular Reporting

8. The Applicant shall 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.

ANNUAL REVIEW

9. By the end of March each year, or other timing as may be agreed by the Secretary, the Applicant shall 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 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;
       - requirements of any plan or program required under this consent;
       - monitoring results of previous years; and
       - relevant predictions in the EIS;
   (c) identify any non-compliance over the past calendar 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.

INDEPENDENT ENVIRONMENTAL AUDIT

10. Within a year of the date of this consent, and every 3 years thereafter, unless the Secretary directs otherwise, the Applicant shall 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; and
    (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.

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

11. Within 6 weeks of completion of this audit, or as otherwise agreed by the Secretary, the Applicant shall submit a copy of the audit report to the Secretary, together with its response to any recommendations contained in the audit report.

ACCESS TO INFORMATION

12. Within 6 months of the date of this consent, the Applicant shall:
    (a) make the following information publicly available on its website:
    - the documents listed in condition 2 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; and
    - any other matter required by the Secretary; and

    (b) keep this information up-to-date,

    to the satisfaction of the Secretary.

APPENDIX 1
DEVELOPMENT LAYOUT

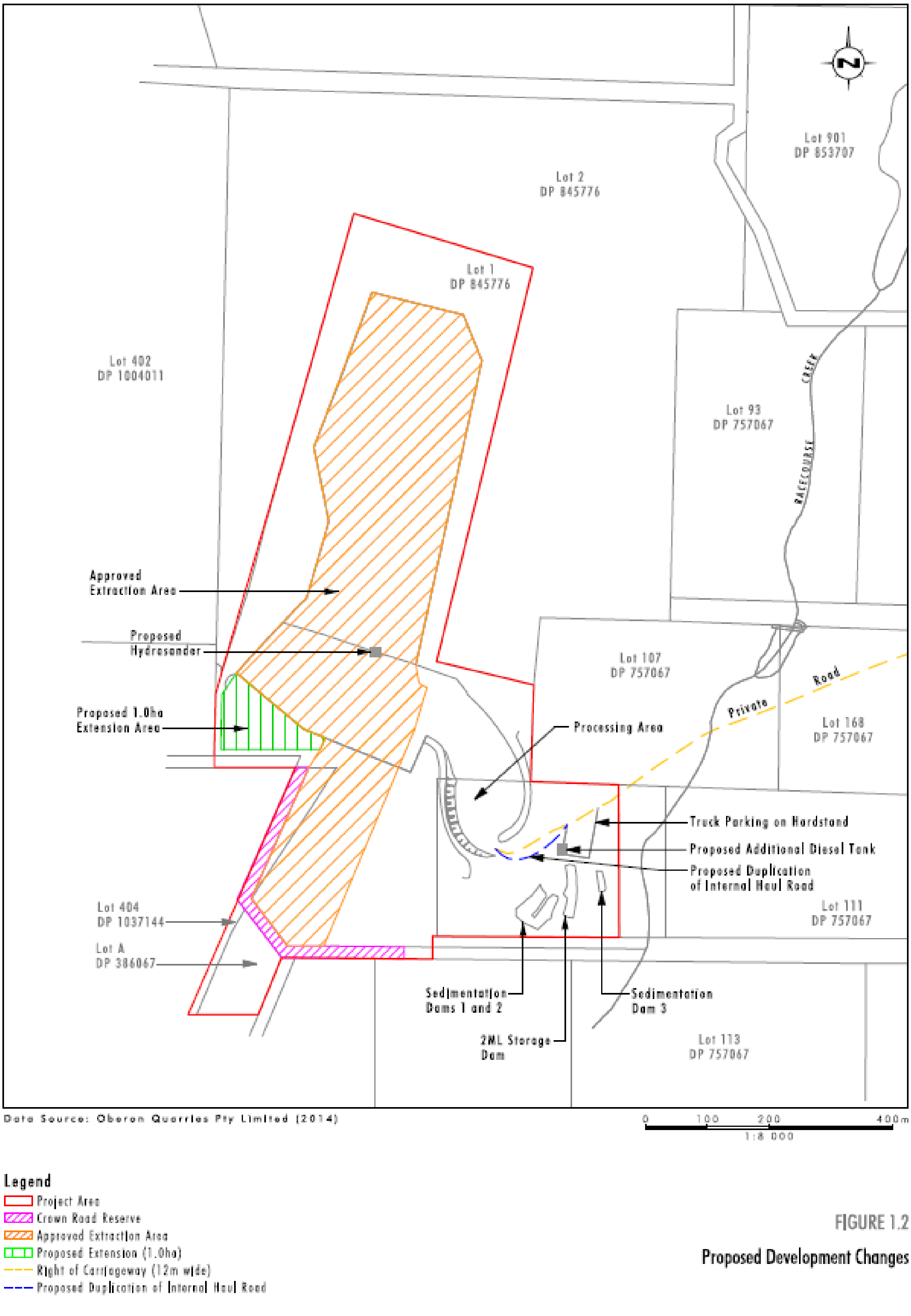

FIGURE 1.2
Proposed Development Changes

APPENDIX 2
STATEMENT OF COMMITMENTS

Clause 7(1)(e) of Schedule 2 EP&A Regulation Requirements requires that the EIS include a compilation of the mitigation measures (refer to **Section 4.2.1.2**).

If development consent is granted under Part 4 of the EP&A Act for the Project, Oberon Quarries will commit to the following controls.

Hours of Operation

Oberon Quarries' approved hours of operation are as per Condition 16 of DA 92/164, and are dependent on the activity being undertaken; approved hours are detailed in **Table 7.1**. Hours of operation will not change as a result of the Project.

Table 7.1 – Approved Hours of Operation

Activity	Approved Hours of Operation
Quarrying and Processing Areas	7.00 am to 6.00 pm, Mondays to Fridays 7.00 am to 5.00 pm, Saturdays No quarrying or processing shall be undertaken on Sundays or public holidays.
Loading Haul Trucks	6.00 am to 10.00 pm, Mondays to Fridays 6.00 am to 5.00 pm, Saturdays No loading of haul trucks shall be undertaken on Sundays or public holidays.
Product Delivery	6.00 am to 10.00 pm, Mondays to Fridays 6.00 am to 5.00 pm, Saturdays No product delivery trucks are to enter the quarry prior to 6.00 am on any day. During the periods 6.00 am to 7.00 am and 6.00 pm to 10.00 pm a maximum of 4 laden delivery trucks shall leave the site per hour (total 8 truck movements per hour).
Construction of Haul Road and Quarry Infrastructure	7.00 am to 6.00 pm Mondays to Fridays 7.00 am to 4.00 pm Saturdays No construction shall be undertaken on Sundays or public holidays.
Maintenance	7.00 am to 6.00 pm Mondays to Fridays 7.00 am to 4.00 pm Saturdays

Erosion and Sediment Control

Current site infrastructure and management practices successfully manage sediment and erosion control for the operation. Surface water management infrastructure at the quarry has been established and fully operational since 1995. The existing water management system at the site includes diversion drains, catch drains and sedimentation dams. Diversion drains and embankments have been constructed around the disturbance area and are vegetated. Catch drains have been constructed with rock weirs and convey sediment-laden runoff from the extraction area to a series of sedimentation dams.

In addition to the diversion drains and sedimentation ponds, Oberon Quarries will continue to implement localised sediment and erosion controls, as required, in accordance with *Managing Urban Stormwater – Soils and Construction* (Landcom, 2001) to reduce the impacts on the water quality in the quarry's dirty water management system.

Noise

Key noise management and mitigation measures to limit potential operational noise impacts currently being implemented at Oberon Quarries' operations and that will be applied to future operations include:

- consideration of seasonal influences on noise impacts, to avoid or otherwise minimise noise impacts to sensitive receivers;
- undertaking prescribed works within the approved hours of operation. Works undertaken outside these hours include:
  - emergency work to avoid the loss of life, property and/or prevent environmental harm; and
  - any other work as agreed through negotiation between Oberon Quarries and potentially affected noise receivers or as otherwise agreed by the EPA.
- where practical aural reversing alarms on mobile plant will be muffled;
- regular inspections of all site plant and equipment to ensure ongoing compliance with manufacturers' noise specifications;
- provision of noise awareness training to site workers;
- positioning (i.e. location and orientation) mobile plant and equipment to minimise any potential noise impact on the surrounding residential receivers;
- implementing noise attenuation controls, where feasible, on mobile and stationary equipment that is potentially generating noise levels above that predicted and/or are generating noise complaints;
- installation of a new crushing plant that has a SWL 6 dB less than the existing equipment and the screening plant that has a SWL 3 dB less than the existing equipment;
- limiting truck speeds on the internal haul roads to 40 km/h;
- not permitting the use of compression brakes on internal haul roads and Oberon Quarry Road;
- drilling associated with blasting will only take place between the hours of 7.00 am and 6.00 pm, 5 days per week;
- restricting truck movements during the periods 6.00 am to 7.00 am and 6.00 pm to 10.00 pm to a maximum of 4 laden truck movements per hour (total 8 truck movements per hour);
- undertaking noise compliance monitoring and reporting (i.e. attended noise monitoring to assess compliance and assist with minimising impacts) once the new crusher and screen are installed. A noise report will be prepared by an independent and suitably qualified person, to assess compliance with the noise levels generated by the quarrying, processing and transportation of quarry products; and
- minimising noise impacts at residential locations, unless there is an alternative agreement with the private resident.

Oberon Quarries will operate a community contact line. The local community is encouraged to use this point of contact to report any instances of excessive noise. All enquiries are to be recorded and the subsequent investigation, action and response logged. The action taken is also communicated to the person who made the enquiry.

These are considered the only feasible measures available to mitigate noise impacts.

Blasting

Oberon Quarries will continue to implement the existing blast management measures:

- all relevant quarry personnel will be trained on the environmental obligations in relation to blasting controls;
- the surrounding landowners and Council will be notified prior to undertaking a blast;
- the date, location of blast holes and quantity of explosive used each day will be documented;
- blasts will be designed to comply with overpressure and vibration criteria;
- monitoring will be undertaken at the nearest private residence and/or other sensitive locations (as required) to verify compliance with the relevant criteria (refer to **Figure 6.1**);
- the maximum number of holes to be detonated in a blast is 150;
- sufficient distance will be maintained between the blast hole and the quarry face;
- appropriate delays will be used;
- blast monitoring data will be used on an ongoing basis to further refine the blast design and management;
- blast design and blast management procedures will be periodically reviewed to evaluate performance and identify corrective action, if required; and
- blasting will be undertaken between 9.00 am and 5.00 pm, Monday to Saturday inclusive, except under apparent temperature inversions conditions when blasting shall only occur between 11.00 am and 1.00 pm Monday to Saturday. No blasting is undertaken on Sundays or public holidays, without approval of the Secretary.

Air Quality

Oberon Quarries has committed to implementing the following dust management and mitigation practices:

- regular watering of unsealed haul roads within the extraction and processing areas and working areas;
- mist sprays on conveyors discharging to product stockpiles;
- limiting vehicles speeds on unsealed surfaces to 40 km/h;
- progressive stabilisation/rehabilitation of exposed areas no longer needed for operational purposes;

- rehabilitating the final landform surface as soon as practicable;
- minimisation of the total disturbed/working areas at any one time;
- implementing temporary stabilisation measures (e.g. cover crops or mulch) on disturbed areas soon as practicable, if rehabilitation is not to be undertaken within the coming three months;
- where practical/possible conduct drilling and blasting during suitable meteorological conditions (i.e. not during high winds);
- drill holes will be capped with stemming to restrict the upward emission of dust;
- undertaking preventative maintenance on all dust suppression plant and equipment;
- truck wheel wash facility will be maintained to be fully functional;
- covering of all laden trucks leaving the site; and
- monitoring of depositional dust levels and analysis of the data for trends (refer to **Figure 6.1** for locations).

Oberon Quarries will continue to implement the existing air quality monitoring program which comprises four dust deposition gauges and monitor the dust levels at these locations at monthly sample intervals.

These are considered the only feasible measures available to mitigate air quality impacts.

Surface Water

The existing water management system including diversion drains, catch drains and sedimentation dams will continue to be managed as per current operations. The system can and will be readily augmented to allow for the additional 1.0 hectare extension area.

Oberon Quarries holds a surface water licence (80SI05018, WAL 34279) that allows extraction of water from Racecourse Creek. No other water licensing will be required for the continued operation of the quarry.

In addition Oberon Quarries will continue to implement localised sediment and erosion controls, as required, in accordance with *Managing Urban Stormwater – Soils and Construction* (Landcom, 2001) to reduce the impacts on the water quality in the quarry's dirty water management system.

Surface water monitoring will continue in accordance with Condition 26 of DA 92/164, and EPL Condition P1.3, surface water quality is monitored at two sites on Racecourse Creek (refer to **Figure 6.1**):

- W1 – upstream of the quarry; and
- W2 – downstream of the quarry.

The samples are analysed for pH, conductivity, turbidity, non-filterable residue (NFR), total nitrogen (TKN), total phosphorus (TP), and total petroleum hydrocarbons (TPH).

EPL condition M2.1 requires the monitoring of Oil & Grease, Total Suspended Solids (TSS) and pH. TPH has been used at the quarry for many years as a suitable measurement for Oil & Grease.

Groundwater

Groundwater will continue to be monitored in accordance with Condition 26 of DA 92/164. Oberon Quarries undertakes groundwater monitoring to determine any potential impacts as a result of quarry operations. Groundwater is monitored for pH and conductivity at a spring-fed dam (GW1) at 'Langley Heights', downslope of the quarry on Racecourse Hill (refer to **Figure 6.1**).

Traffic and Transport

In accordance with existing consent requirements, Oberon Quarries pays and will continue to pay Oberon Council a tonnage based and indexed road maintenance contribution for wear and tear on roads (i.e. road pavement damage).

Flora and Fauna

To ensure the ecological impacts of the quarry are minimised, Oberon Quarries has committed to implementing the following management and mitigation measures:

- installing survey pegs to mark the extent of extraction;
- create a stable final landform within the quarry pit consisting of self-sustaining vegetation communities characteristic of the pre quarry environment;
- progressively conduct rehabilitation and revegetation of the post quarry area over the life of the operations and as quarrying operations of the second bench allow (refer to **Section 6.18**);
- minimising the extent of vegetation clearance to that associated with the next blast area; and
- identifying the weed management controls for the Project Area, i.e. types of weeds known to be present, required control methods and frequencies, as well as monitoring frequencies.

Aboriginal Archaeology

To ensure the archaeological impacts of the quarry are minimised, Oberon Quarries has committed to implementing the following management and mitigation measures:

- Oberon Quarries should ensure that all parties involved in the Project are aware that it is an offence under Section 86 of the NPW Act to harm or desecrate an Aboriginal object unless that harm or desecration is the subject of an AHIP;
- Oberon Quarries will submit an ASIR form to correct the status of site AHIMS #44-6-0060, which appears as valid on the AHIMS database but was located within the approved extraction area;
- in the event that an Aboriginal object (or objects) is uncovered during the proposed works, ground disturbance works will cease within 20 metres of the object(s) and OEH and the relevant Aboriginal parties will be contacted so that appropriate management strategies can be identified;

- In the unlikely event that a potential burial site or potential human skeletal material is exposed within the Project Area, the following procedure should be followed in accordance with the *Policy Directive – Exhumation of Human Remains* (NSW Department of Health, 2008), *Skeletal Remains – Guidelines for the Management of Human Skeletal Remains under the Heritage Act 1977* (NSW Heritage Office, 1998) and the *Aboriginal Cultural Heritage Standards and Guidelines Kit* (NPWS, 1997):

    - as soon as remains are exposed, work in the vicinity of the remains is to halt immediately to allow assessment and management;
    - the relevant manager of the project will be informed and will contact local police, OEH and the Heritage Branch;
    - if the remains are suspected to be human, a physical or forensic anthropologist should inspect the remains *in situ*, and make a determination of whether the remains are human and if so, the likely ancestry (Aboriginal or non-Aboriginal) and antiquity (pre-contact, historic or forensic);
    - if the remains are identified as forensic the area is deemed as crime scene;
    - if the remains are identified as Aboriginal, the site is to be secured and OEH and the relevant Aboriginal parties are to be notified in writing; or
    - if the remains are non-Aboriginal (historical) remains, the site is to be secured and the Heritage Branch is to be contacted.

    This process functions only to appropriately identify the remains and secure the site. From this time, the management of the remains is to be determined through liaison with the appropriate stakeholders and in accordance with the *Public Health Act 1991*.

Greenhouse Gas and Energy

There are a number of mitigation and management measures proposed to be implemented for the ongoing operations. These are outlined in **Table 7.2** below.

Table 7.2 – Greenhouse Gas and Energy Mitigation and Management Measures

Mitigation/Management Measure	**Application**
Improving transport diesel use efficiency	
Limiting the length of transport routes	The transport route is selected based on considering the shortest route and traffic congestion/delays.
Fuel efficient haul trucks	The existing transport fleet over the life of the ongoing operations will be replaced by more efficient trucks. Fuel use efficiency will be an important factor in selecting new haul trucks.
Maximising payload	Oberon Quarries ensure the each truck carries the maximum legal payload.
Reducing idling times	Oberon Quarries will continuously try to improve idle times. Idle times are typically minimal given there is a front end loader specifically for truck loading.
Improving on-site diesel use efficiency	
Scheduling activities so that equipment and vehicle operation is optimised	Quarry operations are scheduled to optimise the productivity and efficiency of equipment.

Table 7.2 – Greenhouse Gas and Energy Mitigation and Management Measures (cont)

Mitigation/Management Measure	Application
Fuel efficient equipment	The existing quarry fleet over the life of the ongoing operations will be replaced by more efficient trucks, excavators and front end loaders. Fuel use efficiency will be an important factor in selecting quarry fleet.
Blasting strategies to improve extraction efficiency	Blasting will be undertaking using best practice.
Maximising resource recovery efficiency	Resource recovery will be optimised within the constraints of the Project.
Working machines to their upper design performance	Machines will be worked to their upper design performance. Optimising machine performance is a key performance indicator for operators. This will be an important factor in selecting new machines.
Haul Truck Options	
Limiting the length of material haulage routes	The quarry planning process paid particular attention to reducing haul route distances.
Optimising ramp gradients	Over the life of the quarry the excavation depth will be increased, thereby reducing the haul road gradient between the processing area and the quarry pit.
Fuel efficient haul trucks	The existing haul truck over the life of the ongoing operations will be replaced by a more efficient truck. Fuel use efficiency will be an important factor in selecting new haul trucks.
Maximising payload	Trucks will be matched with excavators to maximise payload.
Improving rolling resistance of haul roads	Haul road locations are constantly changing and it would be very expensive to pave every haul route. The haul roads are regularly maintained to improve the rolling resistance of haul roads.
Reducing idling times	Oberon Quarries will continuously try to improve idle times. Idle times are typically minimal given there is a front end loader and/or excavator specifically for haul truck loading.
Improving electricity efficiency of processing equipment	
Reducing reject percentage	The installation of the new crushers is expected to reduce the percentage of 5 millimetres minus material that is created from 30 per cent to 25 per cent. This results in a 5 per cent efficiency gain in production and reduces the need for double handling. It is anticipated that the existing markets for the 5 millimetres minus material will be expanded over time and new markets will be developed such as production of manufactured sand as is proposed. This has the potential to create up to a 25 per cent gain in energy efficient per tonne of product.
High efficiency motors	Will occur as part of on-going upgrades to the processing plant. Likely to be financially reasonable
Variable Speed Drives	Will occur were appropriate as part of on-going upgrades to the processing plant. Likely to be financially reasonable.
Optimising motor size to load	Will occur as part of on-going upgrades to the processing plant.
Optimising basalt throughput	The processing plant has been designed to match the maximum through put of the quarry.

Waste

The current site waste management practices will continue to be implemented for the life of the Project.

Bushfire

The Council approved Bushfire Management Plan for the site will continue to be implemented for the life of the Project.

APPENDIX 3
CONCEPTUAL FINAL LANDFORM

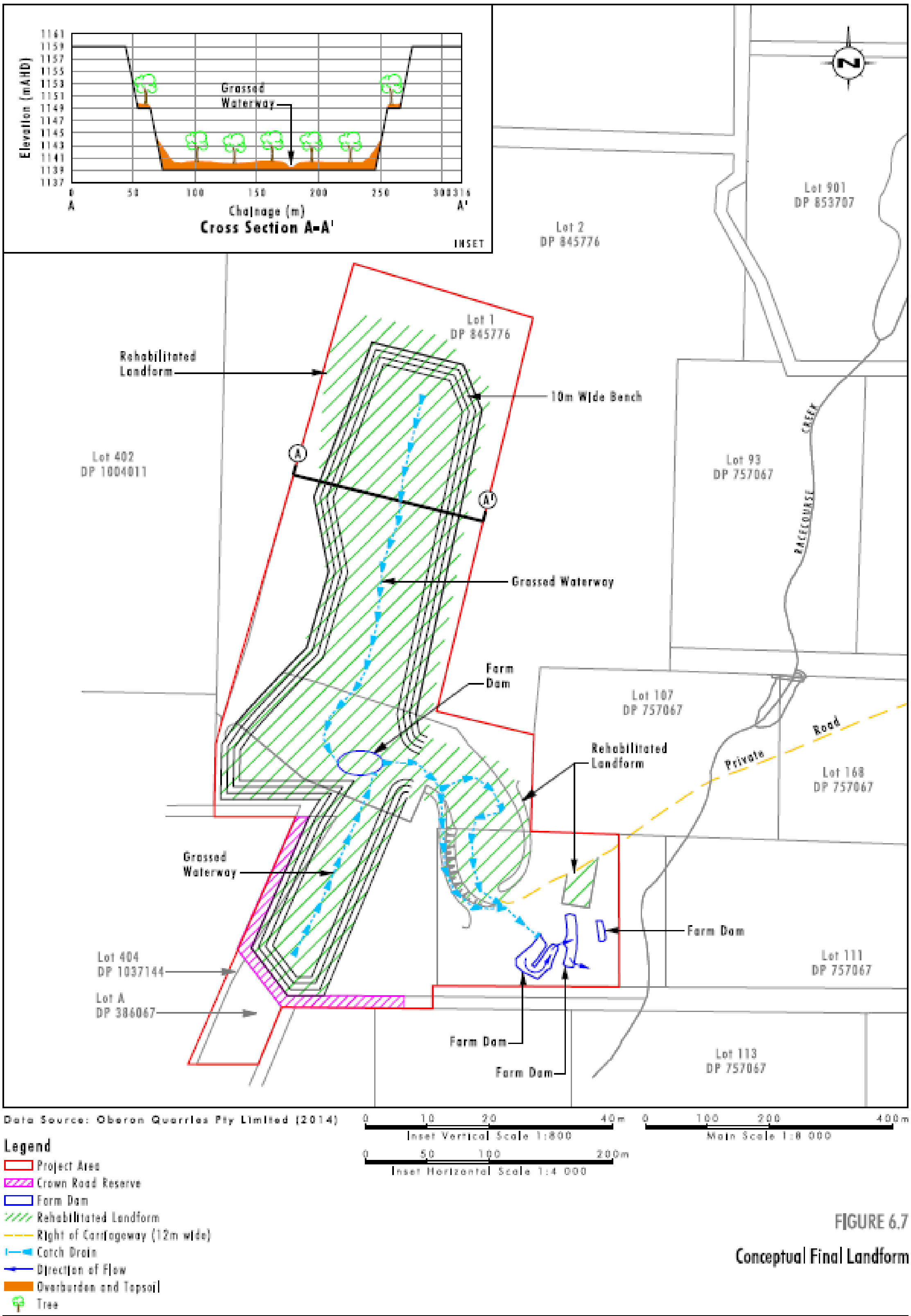

FIGURE 6.7

Conceptual Final Landform

APPENDIX 4
NOISE COMPLIANCE ASSESSMENT

Applicable Meteorological Conditions

1. The noise criteria in Table 2 of the conditions is to apply under all meteorological conditions except the following:
   (a) wind speeds greater than 3 m/s at 10 m above ground level; or
   (b) stability category F temperature inversion conditions and wind speeds greater than 2 m/s at 10 m above ground level; or
   (c) stability category G temperature inversion conditions.

Determination of Meteorological Conditions

2. Except for wind speed at microphone height, the data to be used for determining meteorological conditions shall be that recorded by the meteorological station required under condition 13 of Schedule 3.

Compliance Monitoring

3. Attended monitoring is to be used to evaluate compliance with the relevant conditions of this consent.

4. Unless the Secretary agrees otherwise, this monitoring is to be carried out in accordance with the relevant requirements for reviewing performance set out in the *NSW Industrial Noise Policy* (as amended from time to time), in particular the requirements relating to:
   (a) monitoring locations for the collection of representative noise data;
   (b) meteorological conditions during which collection of noise data is not appropriate;
   (c) equipment used to collect noise data, and conformity with Australian Standards relevant to such equipment; and
   (d) modifications to noise data collected, including for the exclusion of extraneous noise and/or penalties for modifying factors apart from adjustments for duration.

APPENDIX 5
ROAD MATERIALS CONTRIBUTIONS

The quantities of materials to be provided for each intersection are as follows:

(a) Shooters Hill/Edith Road Intersection (surface area 1400 m^2) — 21.5 tonnes of sealing aggregate;

(b) Edith/Titania Road Intersection (surface area 1500 m^2) — 23 tonnes of sealing aggregate and 750 tonnes of road base; and

(c) Titania/Duckmaloi Road Intersection (surface area 1300 m^2) — 20 tonnes of sealing aggregate.

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Appendix 3

Truck Movement and Product Transport Summary – 2021

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OBERONQUARRIES

JANUARY 2021 – DECEMBER 2021

This summary is to satisfy Condition 17 of Development Consent SSD_6333. The summary provides a record of all truck movements to and from the Quarry and is updated every 6 months.

During the period starting from January 2021 through to December 2021 Oberon Quarries recorded the following information:

2021

January 2021	There were 637 truck movements for the month and a total of 17,010.54 tonnes of material that left the quarry.
February 2021	There were 1,148 truck movements for the month and a total of 29,210.23 tonnes of material that left the quarry.
March 2021	There were 1,070 truck movements for the month and a total of 27,201.77 tonnes of material that left the quarry.
April 2021	There were 1,235 truck movements for the month and a total of 31,687.30 tonnes of material that left the quarry.
May 2021	There were 1,198 truck movements for the month and a total of 33,646.31 tonnes of material that left the quarry.
June 2021	There were 720 truck movements for the month and a total of 19,646.43 tonnes of material that left the quarry.
July 2021	There were 825 truck movements for the month and a total of 21,418.88 tonnes of material that left the quarry.
August 2021	There were 944 truck movements for the month and a total of 25,497.02 tonnes of material that left the quarry.
September 2021	There were 867 truck movements for the month and a total of 23,989.44 tonnes of material that left the quarry.
October 2021	There were 857 truck movements for the month and a total of 22,348.52 tonnes of material that left the quarry.
November 2021	There were 868 truck movements for the month and a total of 24,945.43 tonnes of material that left the quarry.
December 2021	There were 638 truck movements for the month and a total of 16,697.99 tonnes of material that left the quarry.

No trucks were loaded before 6.00am and no trucks entered the quarry premise before 5.30am and no trucks were loaded or left the quarry premise after 10.00pm.

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Appendix 4

Blasting and Noise Agreements

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OBERONQUARRIES

Oberon Quarries Pty Ltd
Hargraves Quarry Road
Oberon NSW 2787
ABN: 12 054 994 802
Phone: (02) 6336 0259

29 December, 2016

Mr John Hackfath
174 Shooters Hill Road
(Lot 1 DP 1011321)
Oberon NSW 2787

To whom it may concern,

As the residents at 174 Shooters Hill Road Oberon NSW 2787, Lot 1 DP 1011321.

We have no objection to Oberon Quarries Pty Ltd generating higher noise levels than those listed in Section L3 of NSW Environment Protection Authority (EPA) Environment Protection Licence (EPL) 4442 and clause 3, schedule 3 of Department of Planning and Environment (DPE) Oberon Quarries project approval SSD_6333. If in the future, we have any objections we will raise these directly with the Quarry Manager.

Additionally, we have no objection to Oberon Quarries Pty Ltd seeking to modify the frequency of attended noise monitoring from *'at least every 3 months'* (as stipulated in clause 4 (c), schedule 3 of project approval SSD_6333) to *'on a complaints only basis only'* whereby a targeted noise monitoring investigation will be undertaken by Oberon Quarries Pty Ltd on receipt of a noise complaint.

Yours sincerely,

Signature: JAHackfath

Name: JOHN HACKFATH

OBERONQUARRIES

Oberon Quarries Pty Ltd
Hargraves Quarry Road , Oberon NSW 2787
ABN: 12 054 994 802
P: (02) 6336 0312 - Quarry Office
P: (02) 6336 0259 - Weighbridge Office

21 December 2021

Mr. Anthony Alevras
167 Harveys Road
Lot 401 DP 1105551(Formerly in Lot 401 DP 1004011)
Oberon NSW 2787

Dear Anthony

Re: Oberon Quarries Pty Limited Continuation Project (SSD_6333) - Blasting Agreement and EPA Licence 4442

On the 14 September 2015 the Department of Planning and Environment granted Development Consent {SSD_63 33), which permit s the continuation of quarrying activities for a further 30 years. The Development Consent details a number of environmental monitoring and performance requirements for these quarrying activities. Specifically Schedule 3, Condition 6 relates to the maximum noise and vibration levels for blasting operations. In respect to the EPA Licence 4442 Limit Conditions L5 refers to the same with the latest Licence version being 3rd August 2020. Both copies are available via the Oberon Quarries website https://oberonquarries.com.au/development-consent-and-environment-approvals/ for your review

As you are aware, Oberon Quarries Pty Limited has historically undertaken blast monitoring at your premises to measure the noise and vibration levels for each blast. Over the last 20 plus years the bl ast noise and vibration monitoring results have typically been below the levels and all measures are taken by Quarry Ownership and Management to ensure it. On occasions when exceedances of these levels have occurred we have provided you with notification.

While we propose to continue to undertake blasting and put in place all measures to ensure such the level of noise and vibration generated is below the maximum levels specified in both the Licence and Consent, we seek your agreement to higher levels.

Subject to your concurrence, this will remove the formal requirement to monitor each blast and the need to advise yourself and government departments within the nominated timeframes (within seven days of the exceedance being observed), should an exceedance occur.

We note however, that Oberon Quarries wishes tocontinue to monitor blasts at your property for due diligence purposes.

Oberon Quarries will also continue to advise you of blasts results above the levels specifi ed and if requested shall provide to you all blasting monitoring results

To confirm your consent and agreement please sign the attached template

Best Wishes

Neil Hargraves – Owner Director

Neil Hargraves
Oberon Quarries Pty Limited
315 Commercial Road
VINEYARD NSW 2765

Dear Neil

Re: Oberon Quarries Pty Limited Continuation Project (SSD_6333) - Blasting Agreement and EPA Licence 4442

As the resident of 167 Harveys Road, Oberon NSW 2787, Lot 401 DP 1105551(Formerly in Lot 401 DP 1004011) we have no objection to Oberon Quarries generating higher blast noise and vibration levels than those specified in Schedule 3, Condition 6 of the 2015 Development Consent (SSD_6333) and EPA Licence 4222 3-L5

If in the future we have any objections we will raise these directly with yourself

Yours sincerely

Signature:

Name: Anthony Alevras

Date: 14/01/2022

Appendix 5

Complaints Register and Company Response

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OBERONQUARRIES

Oberon Quarries Pty Ltd

A.B.N 12 054 994 802

Enquiries and Complaints Line: (02) 6336 0259

Complaints Register

Date	Nature of Complaint	Method	Action taken and follow-up
2016	Nil Complaints		
2017	Nil Complaints		
2018	Nosie	DPE via email	Oberon Quarries received a noise complaint via DPE during October 2018. Correspondence regarding this matter was provided to the DPE. No further action has been requested or undertaken.
2019	Truck Movements	Oberon Council via letter	Oberon Quarries received a letter from Oberon Council regarding truck movements within Oberon township during June 2019. Correspondence regarding this matter was provided to Oberon Council. No further action has been requested or undertaken

This Complaints Register will be updated if a complaint is received.

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