



OBERON**QUARRIES**

ABN: 12 054 994 802

Oberon Quarry Project

Annual Review 2019

for the period

1 January 2019 to 31 December 2019



Prepared by:



R.W. CORKERY & CO. PTY. LIMITED

March 2020

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ABN: 12 054 994 802

Oberon Quarry Project Annual Review 2019

1 January 2019 to 31 December 2019

Prepared for:

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March 2020



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Title Block

Name of operation	Oberon Quarry
Name of operator	Oberon Quarries Pty Ltd
Development consent / project approval #	Oberon Quarry Continuation Project Development Consent SSD_6333
Name of holder of development consent / project approval	Oberon Quarries Pty Ltd
Mining Lease #	N/A
Name of holder of mining lease	
Water licence #	Water Access Licence (WAL) 34279
Name of holder of water licence	Oberon Quarries Pty limited
MOP/RMP start date	N/A
MOP/RMP end date	
Annual Review start date	1 January 2019
Annual Review end date	31 December 2019
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 2019 to 31 December 2019 and that I am authorised to make this statement on behalf of Oberon Quarries Pty Ltd. <i>Note.</i> a) <i>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.</i> b) <i>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).</i>	
Name of authorised reporting officer	Jake Hargraves
Title of authorised reporting officer	Managing Director
Signature of authorised reporting officer	
Date	31/03/2020

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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**. 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, commissioned in October 2019. At the time of preparing this Annual Review, the 2019 audit had yet to be finalised and submitted to DPIE.

It was determined that there were six non-compliances with conditions of Development Consent SSD_6333 (12 including sub-components of conditions), four with conditions of EPL 4442 and none with conditions of WAL 34279 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
EPL 4442	No
WAL 34279	Yes

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

Page 1 of 2

Relevant Approval	Cond #	Condition Description (summary)	Compliance Status	Comment	Where Addressed in Annual Review
SSD_6333	2/2	The Applicant shall carry out the development:	Non-compliant	All conditions of SSD_6333 have not been satisfied. Refer to specific non-compliances as outlined below.	See below.
		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.			
	3/11	The Applicant shall:	Non-compliant	Section 5.1 of the Air Quality Management Plan commits to the maintenance and use of the truck wheel wash. The truck wheel wash was not used during the reporting period as sealing of the Site Access Road has now been completed.	11
		a) implement best practice management to minimise the dust emissions of the development;			
		c) minimise the air quality impacts of the development during adverse meteorological conditions and extraordinary events (see note d under Table 4);	Non-compliant	The Air Quality management plan does not detail a procedure for responses to adverse meteorological conditions.	11
	3/12	e) implement all reasonable and feasible measures to minimise the release of greenhouse gas emissions from the site; and	Non-compliant	No measures for the minimisation of greenhouse gas emissions are detailed in the Air Quality Management Plan.	11
		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.	Non-compliant	The approved air quality monitoring program does not include monitoring of PM10 and TSP as required under Condition 10 of Schedule 3 of SSD_6333.	11

Table 3 (Cont'd)
Non-compliances During the Reporting Period

Page 2 of 2

Relevant Approval	Cond #	Condition Description (summary)	Compliance Status	Comment	Where Addressed in Annual Review
SSD_6333 (Cont'd)	3/18	The Applicant shall ensure that: all laden trucks exiting the site are cleaned of material that may fall on the road, before leaving the site;	Non-compliant	The truck wheel wash was not maintained or used during the reporting period.	11
	3/25	Within 6 months of the approval of the Landscape and Rehabilitation Management Plan, the Applicant shall lodge a Rehabilitation Bond with the Department.	Non-compliant	Although the rehabilitation bond has been in place since September 2018, the bond was not provided to DPIE within the required 6 month period.	11
	3/28	The Applicant shall: b) minimise the waste generated by the development;	Non-compliant	The 2019 audit identified no formal program for minimising waste generation at the Quarry.	6.8, 11
		c) ensure that the waste generated by the development is appropriately stored, handled, and disposed of; and	Non-compliant	The 2019 audit identified that waste batteries and oils associated with derelict equipment were not managed accordingly during the reporting period.	11
EPL 4442	O1.1	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.	Non-compliant	The 2019 audit identified that waste batteries and oils associated with derelict equipment were not managed accordingly during the reporting period.	11
	O3.1	The premises must be maintained in a condition which minimises or prevents the emission of dust from the premises.	Non-compliant	All controls outlined in the approved Air Quality management Plan were implemented during the reporting period with the exception of the truck wheel wash. No provision is made for dust control in pit stockpiles.	11
	M4.2	The licensee must keep a legible record of all complaints received at the Quarry, including the following details: date and time of receipt, method made, complainant details, nature of the complaint and any response to the complaint.	Non-compliant	The 2019 audit noted that a complaints register containing all necessary details was not maintained during the reporting period.	11

2. INTRODUCTION

2.1 SCOPE AND FORMAT

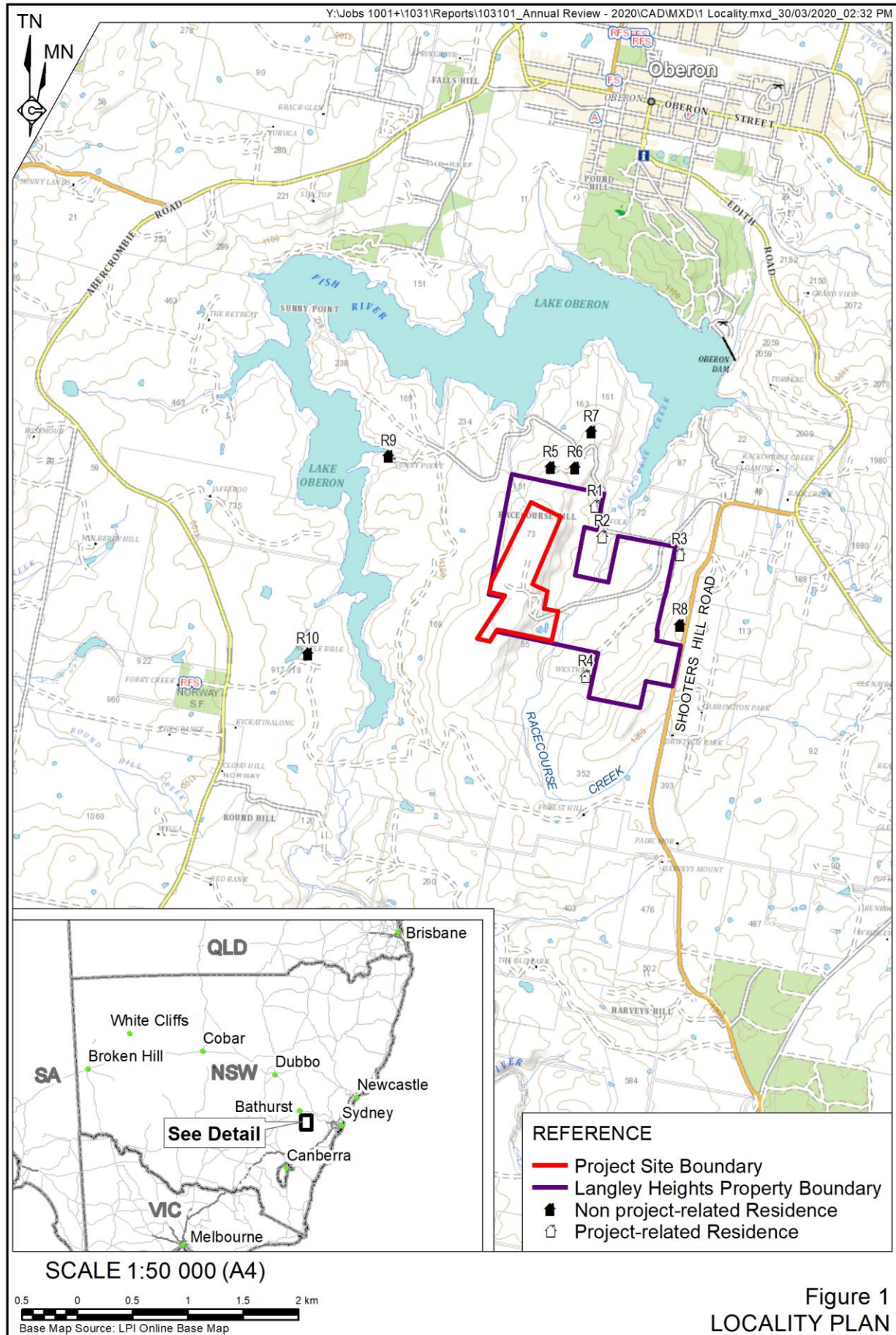
This document represents the 5th Annual Review (the Report) prepared for the Oberon Quarry located on Hargraves Quarry Road, Oberon, New South Wales (**Figure 1**). Oberon Quarry (the Quarry) is owned and operated by Oberon Quarries Pty Ltd (the Company) and encompasses a hard rock extraction and processing operation. The Report covers the period from 1 January 2019 to 31 December 2019 (the current reporting period).

The Report has been prepared primarily to satisfy Condition 9 of development consent, SSD_6333 (**Appendix 2**). 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**).

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 to 31 December 2019. 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 to 31 December 2020 (the next reporting period).



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 2018 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.

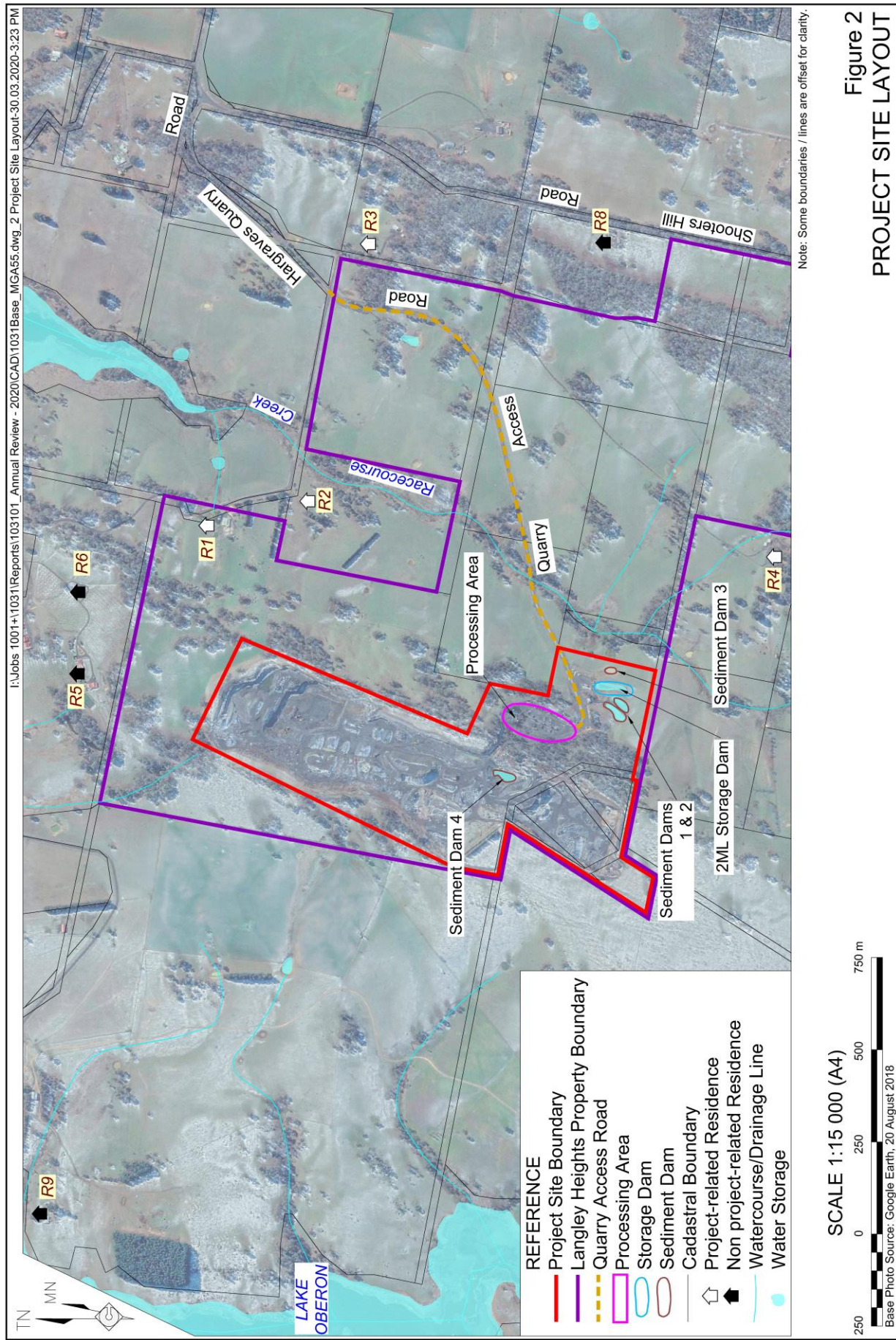
2.2.2 Hours of Operation

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_06333, Condition 1 of Schedule 3.	

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



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	Quarry Manager / Managing Director	(02) 6336 0259
John Fisher	Oberon Quarries Pty Ltd	Production Supervisor	(02) 6336 0259

3. APPROVALS

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

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 2 May 2018.
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)	261 231 tonnes	241 802 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 both the northern and southern 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. Extraction of the second bench commencing during the reporting period.

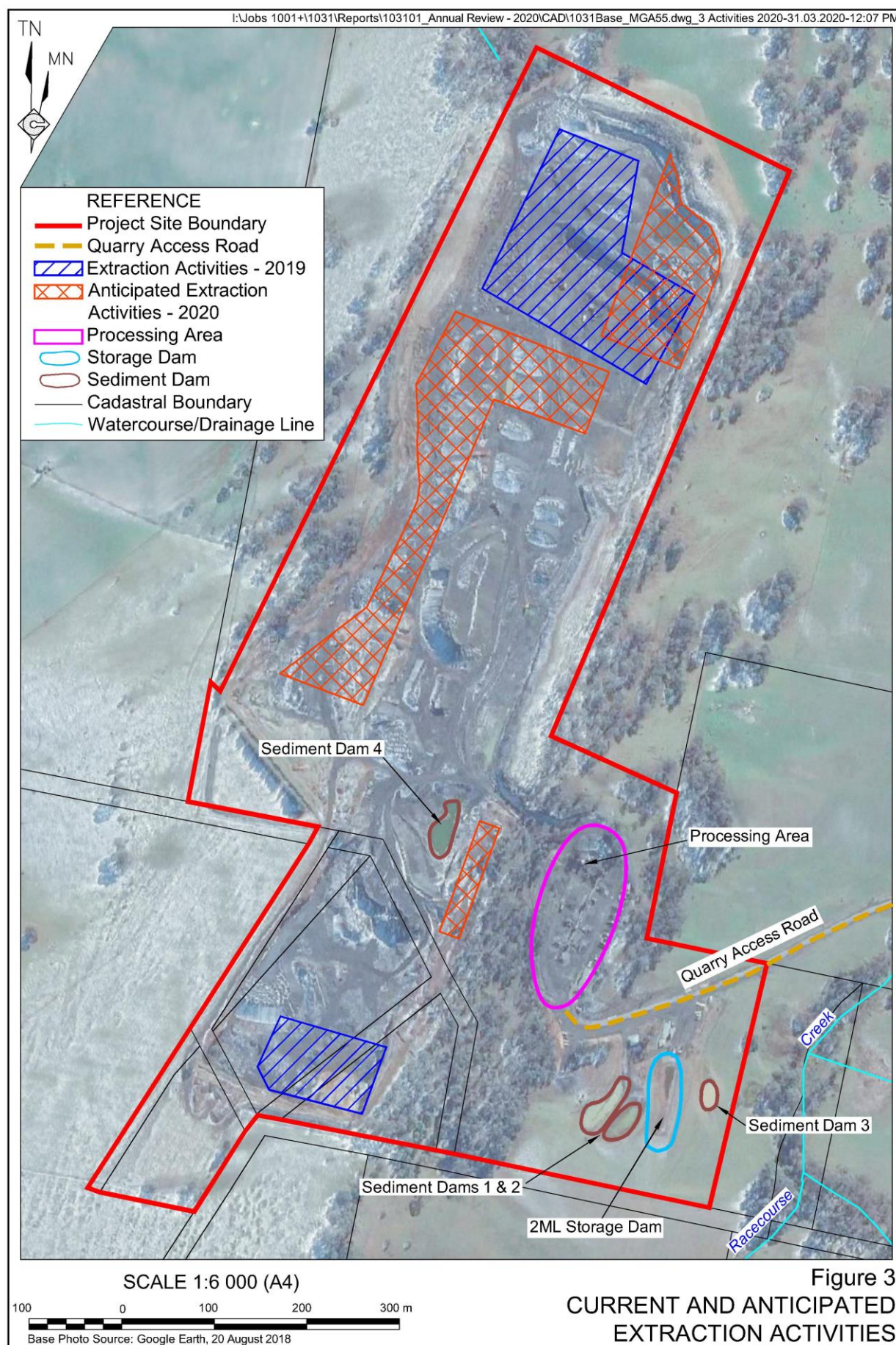
A total of eight production blasts were initiated during the current reporting period. The results of blast monitoring during the reporting period are discussed in Section 6.4.

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 current reporting period.

No new equipment or plant upgrades were installed at the Quarry during the current 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 current reporting period and included noise, blasting, air quality, surface water, groundwater and ecological monitoring. Results of these monitoring programs are summarised in Section 6 and Section 7.

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 north-eastern and central western areas of the approved Extraction Area, with limited extraction also expected to occur immediately east of Sediment Dam 4 (see **Figure 3**).

The Company does not anticipate that any construction, exploration, or land preparation works will be undertaken during the next reporting period.

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 2018 Annual Review was submitted to the then Department of Planning and Environment (DPE) on 27 March 2019. Feedback was received from DPE dated 17 June 2019 confirming the Annual Review was considered to satisfy the requirements of the Condition 9 of Schedule 5 of SSD_6333. However, the feedback noted that several documents were not publicly available on the Company's website. A summary of directions provided by DPE in response to the 2018 Annual Review is provided in **Table 9**.

Table 9
Actions from the previous Annual Review

Action required from previous Annual Review / Notice	Requested by	Action taken by the Operator	Where discussed in Annual Review
1. Ensure that the project website is updated to include all required information, including the 2018 Annual Review. Information not available on the website included the: – 2017 Annual Review; and – 2017 Independent Environmental Audit report, including the Applicant's response to recommendations of that audit.	DPE	Information available on the Company website was reviewed and missing information was uploaded to the website.	N/A

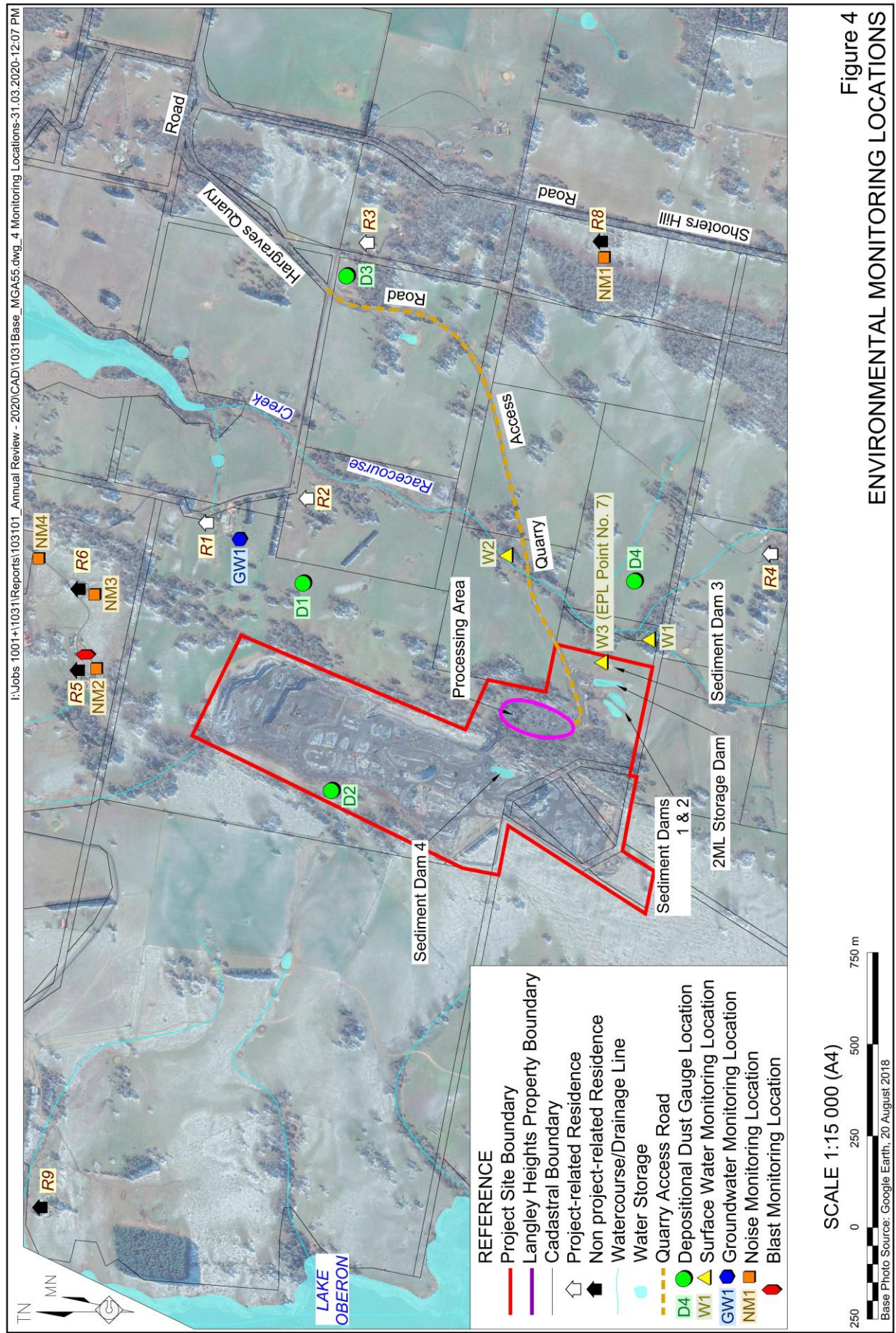
6. ENVIRONMENTAL PERFORMANCE

6.1 SUMMARY OF ENVIRONMENTAL PERFORMANCE

A summary of environmental performance for the principal environmental aspects is provided in **Table 10**. Environmental monitoring locations are shown in **Figure 4**. Further detail regarding specific environmental aspects is also provided in the following subsections.

Table 10
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(LA _{1max}).	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. Monitoring demonstrates compliance during all eight blasts during the current reporting period.	No specific management implications as all blasts were within relevant criteria.	No specific management actions required.
Air Quality	Condition 10 of Schedule 3 of SSD_6333 - Annual Average - PM₁₀ 30µg/m³ - TSP 90µg/m³ - deposited dust 2g/m²/month (incremental) and 4g/m²/month (cumulative) 24-hour average - PM₁₀ 50µg/m³	No complaints. No exceedance of annual average deposited dust rates.	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.



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 11** provides the monthly temperature and rainfall data for the reporting period.

Table 11
Monthly Rainfall

Year		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Average Temperature (°C)														
2019	Maximum	35.5	31.5	29.9	24.2	19.5	15.8	12.2	15.8	22.4	28.4	33.8	37.9	37.9
	Minimum	12.4	4.9	3.1	-1.9	-2.5	-3.5	-2.8	-4.6	-2.1	1.4	0.2	-1.2	-4.6
Long Term Average ¹	Maximum	36.9	38.0	32.6	28.1	23.1	17.1	16.8	20.2	26.5	30.1	35.3	37.9	38.0
	Minimum	-0.5	1.7	-2.2	-4.0	-6.3	-8.5	-8.7	-7.2	-5.8	-3.5	-2.5	-3.0	-8.7
Rainfall (mm)														
2019	Total	147.7	65.4	89.6	5.8	51.2	35.4	9.8	19.9	9.3	9.2	17.8	11.2	472.3
	No. Days of Rain ³	12	3	10	1	5	8	0	5	2	1	4	2	53
	Max Daily Rainfall	40.2	34.1	21.8	1.8	30.6	7.8	0.8	6.1	3.1	6.8	9.2	7.2	40.2
Long Term Average ²	Total	79.7	60.9	65.7	56.8	59.7	78.1	70.1	74.0	66.7	77.2	71.0	74.0	834.3
	No. of Rain Days ³	6.4	5.9	6.1	5.5	6.4	9.0	8.6	8.5	7.4	7.6	6.8	6.3	84.5
	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 1888 to 2019.														
Note 2: Long-term average for period 1965-2019.														
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 472.3mm or slightly more than half of the average rainfall recorded to date.

6.3 NOISE

Environmental Management

Noise at the Quarry is managed in accordance with the approved Noise Management Plan. **Table 12** outlines the nominated noise criteria for the Quarry. Noise monitoring locations associated with the Quarry are shown in **Figure 4**.

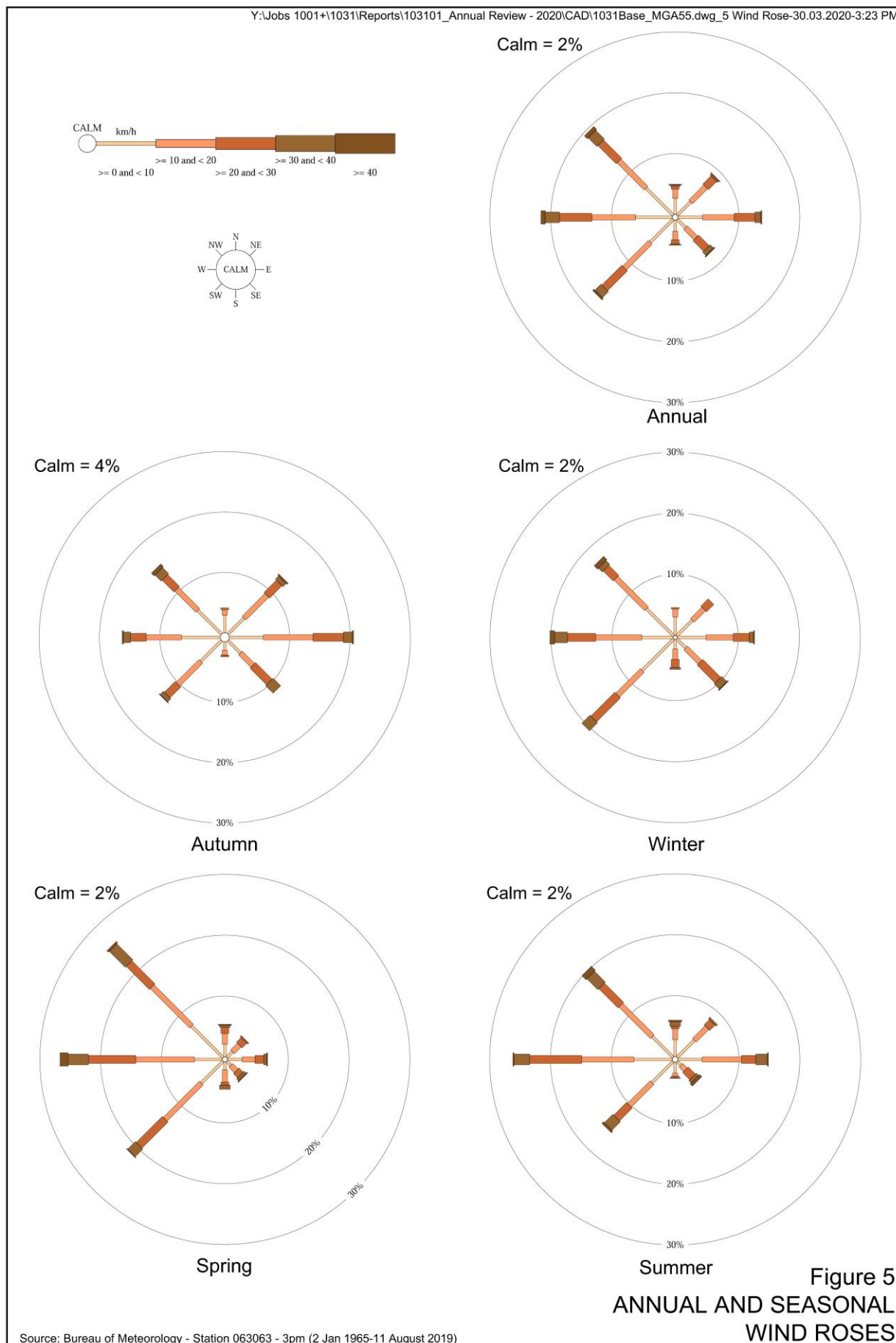


Table 12
Oberon Quarry – Noise Criteria

Receiver	Day ¹ / Evening ²	Night ³	
	dB LA _{eq} (15 min)	dB LA _{eq} (15 min)	dB LA ₁ (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 10:00pm 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.			

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 12**. 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.

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 were 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 13** outlines the nominated blast impact assessment criteria for the Quarry.

Table 13
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 (**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. Nonetheless, the Company continued to undertake blast monitoring at the nearest residence (monitoring location NM2 – see **Figure 4**) to the north of the Quarry during the reporting period.

Environmental Performance

Table 14 and **Figure 6** present the results of production blast monitoring undertaken at the Quarry during the reporting period. In summary, a total of eight production blasts were undertaken during the reporting period and no exceedances of either the ground vibration or airblast overpressure impact criteria were recorded. No rock popping blasts were undertaken during the reporting period.

Table 14
Oberon Quarry – Blast Monitoring Results - 2019

Monitoring Location ¹	Blast Date	Blast Time	Peak Ground Vibration (mm/s)	Peak Airblast Overpressure (dBL)	Compliant with Blasting Criteria
BM1	09/01/2019	1:45pm	4.32	97.5	Yes
BM1	09/01/2019	1:47pm	0.51	107.0	Yes
BM1	22/03/2019	12:44pm	0.53	106.0	Yes
BM1	15/05/2019	1:42pm	1.75	104.9	Yes
BM1	12/07/2019	12:31pm	BLD ²	BLD ²	Yes
BM1	26/08/2019	2:20pm	0.50	108.0	Yes
BM1	22/10/2019	1:55pm	1.34	106.5	Yes
BM1	18/12/2019	12:13pm	0.85	108.4	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.					

Figure 7 presents the results of blast monitoring undertaken at the Quarry between 2014 and 2019. No blasts undertaken at the Quarry between 2014 and 2019 have exceeded the 5mm/s criteria limit for ground vibration. The lower airblast overpressure criteria limit of 115dBL was exceeded by one blast (117.9dBL) on 22 January 2018 and the upper airblast overpressure limit of 120dBL was exceeded by one blast (128.8dBL) on 19 July 2017.

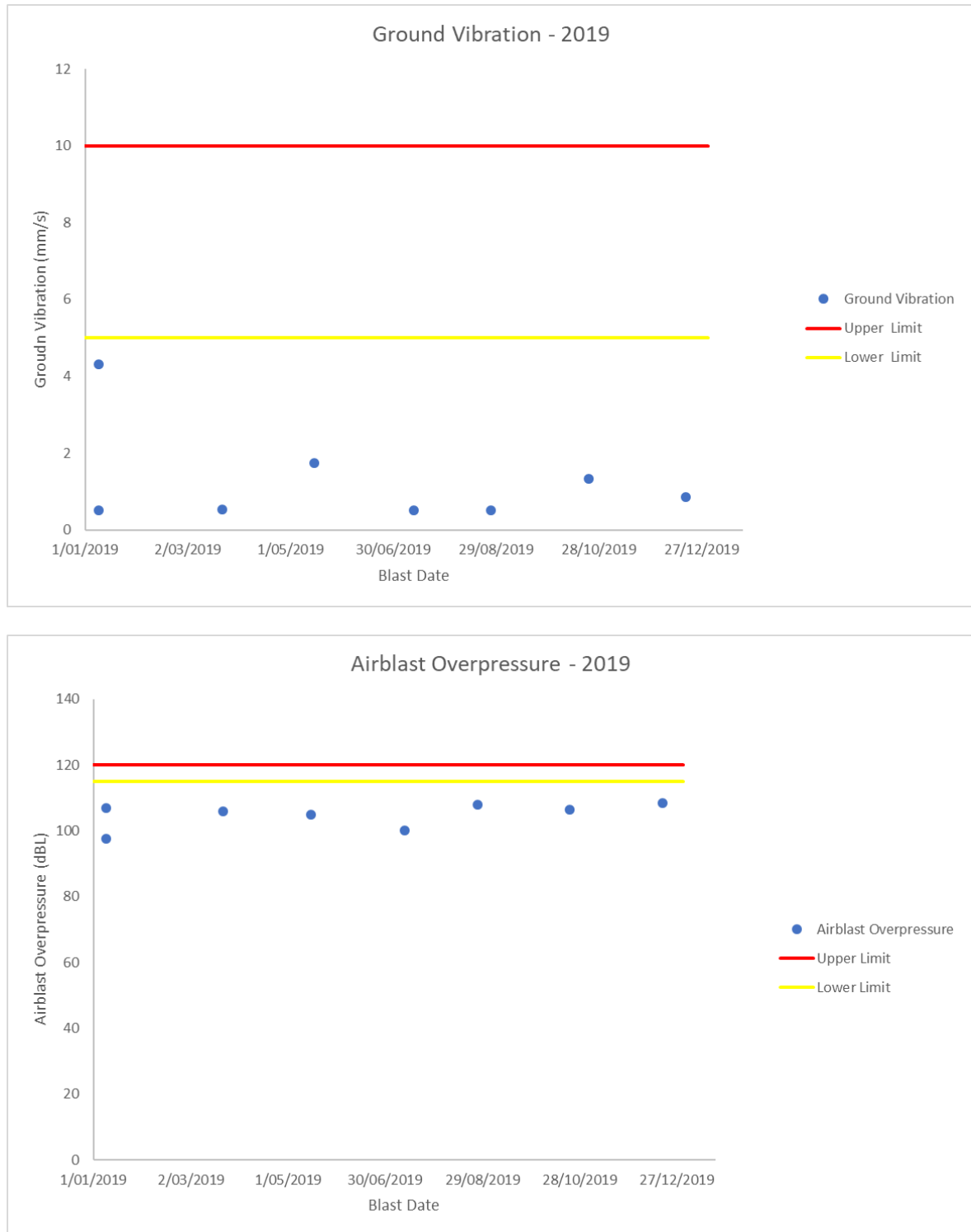


Figure 6 Blast Monitoring Results – 2019



Figure 7 Blast Monitoring Results – 2014 to 2019

Reportable Incidents

No reportable blasting-related incidents occurred, and no blasting-related complaints were received, during the reporting period.

Further Improvements

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

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 15** outlines the nominated air quality impact assessment criteria for the Quarry.

Table 15
Oberon Quarry – Air Quality Criteria

Pollutant	Averaging Period	Criterion	
Particulate Matter <10µm (PM ₁₀)	Annual	30µg/m ³ A, D	
Particulate Matter <10µm (PM ₁₀)	24 Hour	50µg/m ³ B	
Total Suspended Particulates (TSP)	Annual	90µg/m ³ A, D	
Deposited Dust ^C	Annual	2g/m ² /month ^B	4g/m ² /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: <i>Methods for Sampling and Analysis of Ambient air – Determination of Particulate Matter – Deposited Matter – Gravimetric Method</i> .			
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 PM₁₀ criteria is assumed and will only be monitored in the event that a complaint regarding TSP or PM₁₀ levels is received at the Quarry.

Environmental Performance

Table 16 presents the results of depositional dust gauge monitoring during the reporting period.

The highest monthly dust deposition measurement during the reporting period was 9.7g/m²/month (total solids), recorded between 4 November 2019 and 2 December 2019 at monitoring location D4. Further analysis of this sample indicated that the ash content was 5.8g/m²/month indicating that the organic component (e.g. bird droppings, insects, leaves, etc.) equated to >40% of the total deposited material. Furthermore, dust deposition measurements for monitoring locations D1, D2 and D3 ranged between 3.39g/m²/month (total solids) and 3.90g/m²/month (total solids) over the same sampling period. Finally, it is noted that November and December 2019 were noted for extraordinary, widespread dust storms and poor air quality as a result of elevated winds and the ongoing drought.

Table 16
Oberon Quarry - Depositional Dust Monitoring Results - 2019

Sample Site	No. Samples Required	No. samples collected and analysed	Minimum Solids ¹ (g/m ² /month)	Maximum Solids ¹ (g/m ² /month)	Annual Average Solids ¹ (g/m ² /month)
DG1	12	12	1.06	3.90	2.77
DG2	12	12	0.54	3.73	2.09
DG3	12	12	0.34	3.39	1.46
DG4	12	12	0.49	9.7	3.67
Average	12	12	0.61	5.18	2.50
Note 1: Values reported represent total solids (i.e. comprising both soluble and insoluble solids).					
Source: Oberon Quarries Pty Ltd					

Figure 8 depicts the annual average monthly dust deposition rates recorded for each of the four depositional dust gauges during the reporting period. In summary, the annual average monthly dust deposition rates for the reporting period ranged between 1.28g/m²/month and 3.67g/m²/month, remaining below the cumulative impact criteria limit of 4g/m²/month during the reporting period.

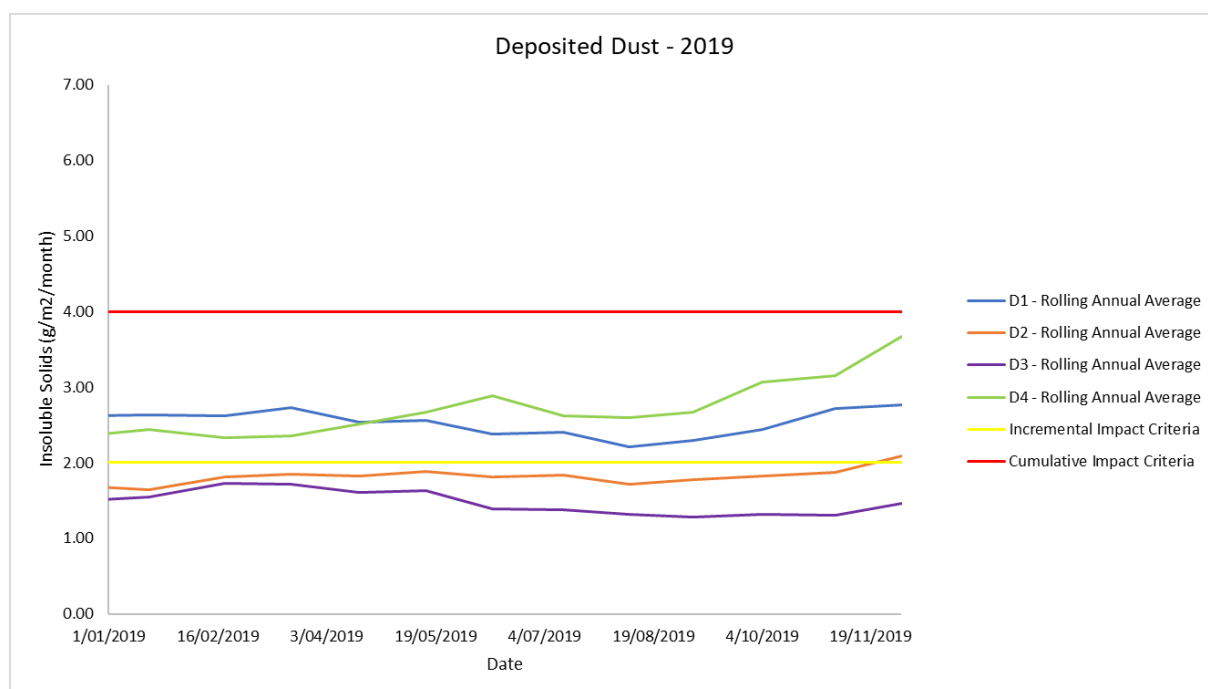


Figure 8 **Deposited Dust Monitoring Results – 2019**

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 regional increases in dust levels associated with regional drought conditions during the period since 2016.

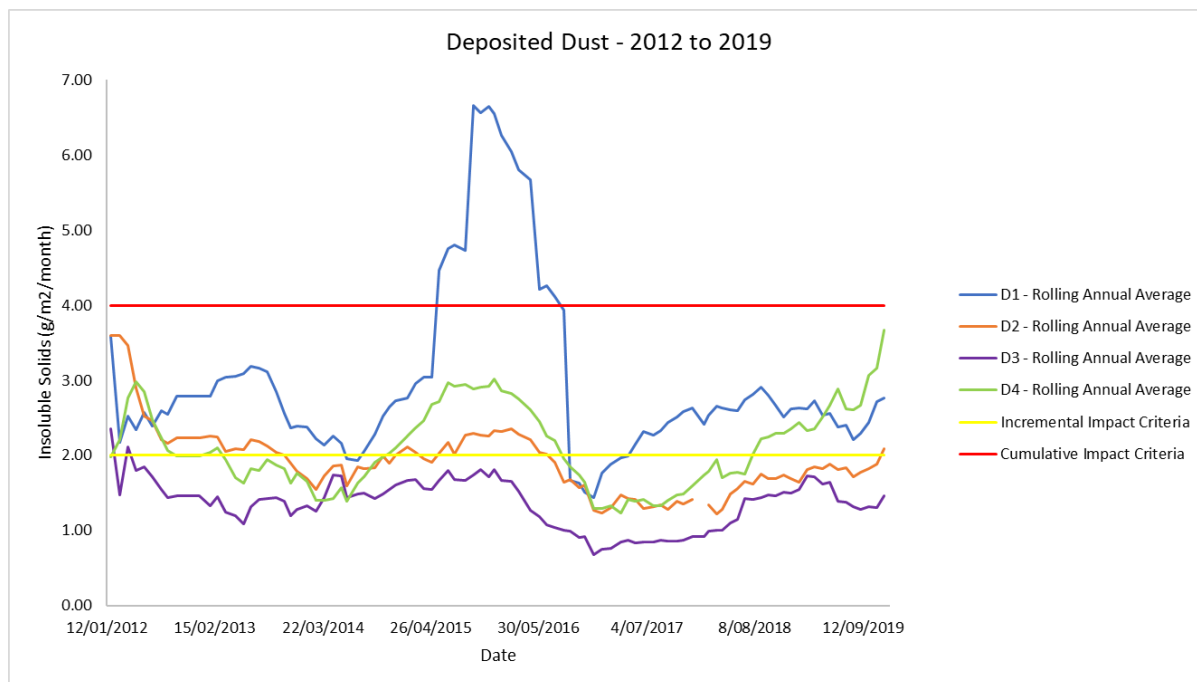


Figure 9 Deposited Dust Monitoring Results – 2012 to 2019

Rolling annual average deposited dust levels have typically remained below the cumulative impact criteria limit of $4\text{g/m}^2/\text{month}$, 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 $19.8\text{g/m}^2/\text{month}$ and $26.3\text{g/m}^2/\text{month}$ 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 2019 Annual Review reporting period.

Further Improvements

No improvements relating to air pollution 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 was 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 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 2019 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.

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 approximately 10t 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 (yet to be finalised at the time of preparation of this document), highlighted the absence of a formal waste minimisation procedure at the Quarry. In response to this, the Company has committed to reviewing the feasibility of preparing and implementing a formal waste management plan during the next reporting period.

7. WATER MANAGEMENT

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

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

Table 18
Surface Water Quality – Trigger Levels

Pollutant	Trigger Level	
	W1 & 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 12 times during the reporting period. **Table 19** 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.

Table 19
Summary^{1, 2} of Surface Water Quality Monitoring Results – 2019

Location	No. Samples	pH	EC (µS/cm)	NTU	TSS (mg/L)	TKN (mg/L)	Total P (mg/L)	Oil and Grease (mg/L)
W1	12	6.7 – 7.5 (7.2)	115 – 240 (156)	2.5 – 24.0 (7.9)	2 – 21 (6)	0.3 – 0.9 (0.6)	0.10 – 0.13 (0.10)	0.5 (0.5)
W2	12	6.8 – 7.4 (7.15)	110 – 250 (156)	2.4 – 24.0 (8.7)	2 – 45 (11)	0.3 – 0.9 (0.7)	0.10 – 0.15 (0.11)	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.								

Figures 10 to 12 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.

pH

Measurements of pH during reporting period ranged between 6.7 and 7.5, 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 historic high of 250µS/cm (W2) in January 2019 and peaked a second time at the end of the reporting period with a measurement of 200µS/cm (W1 & W2) recorded in December 2019 (**Figure 10**). Whilst these EC measurements represent the highest recorded at the Quarry, they remain well below the relevant trigger level of 300µS/cm. Similar, 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 2.5 NTU and 25.0 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 45mg/L, with monitoring location W2 recording a higher maximum value (45mg/L) and higher average value (11mg/L) compared to upstream location W1 (maximum of 21mg/L and average of 6mg/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.

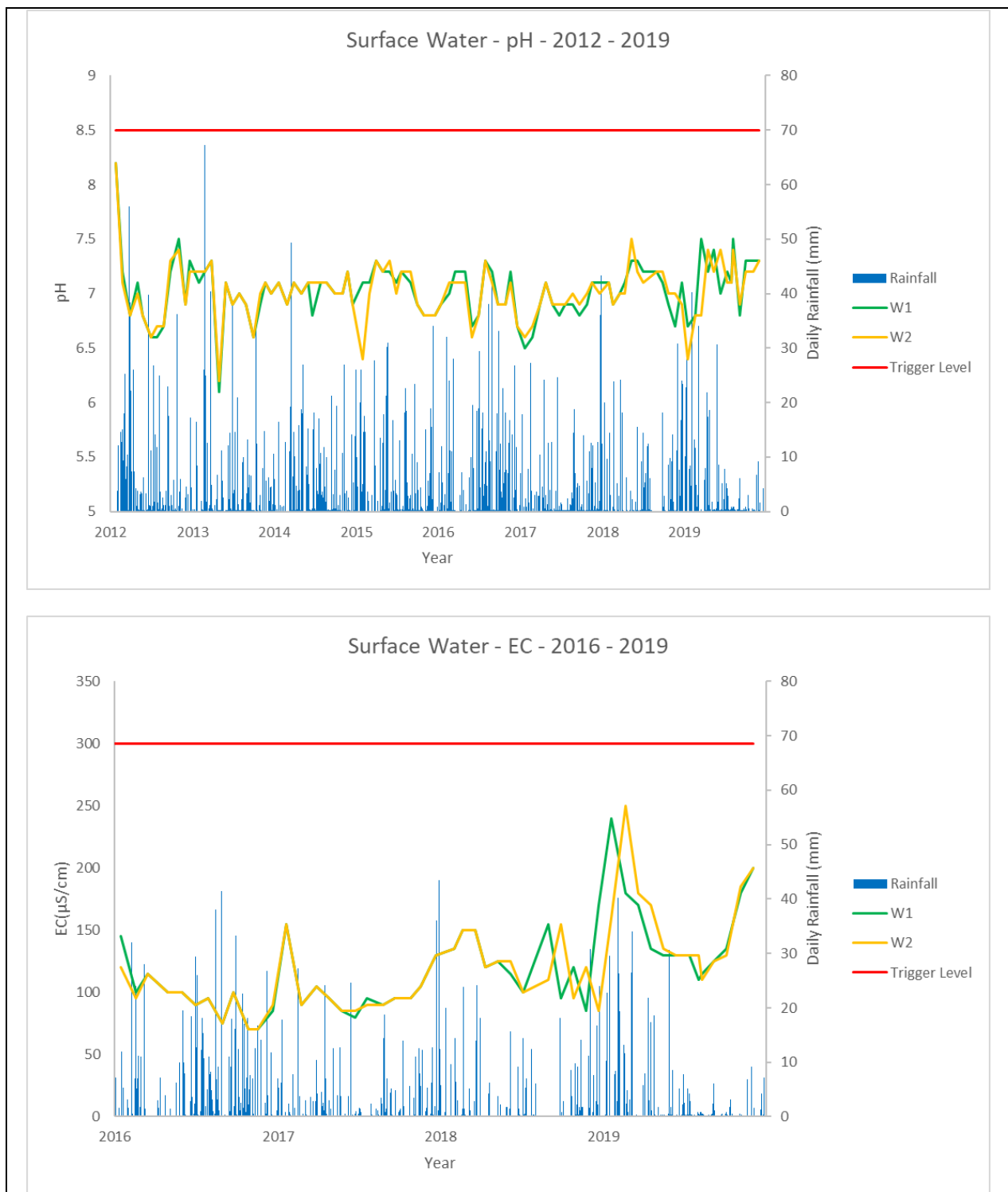


Figure 10 Surface Water Monitoring Results – pH and EC

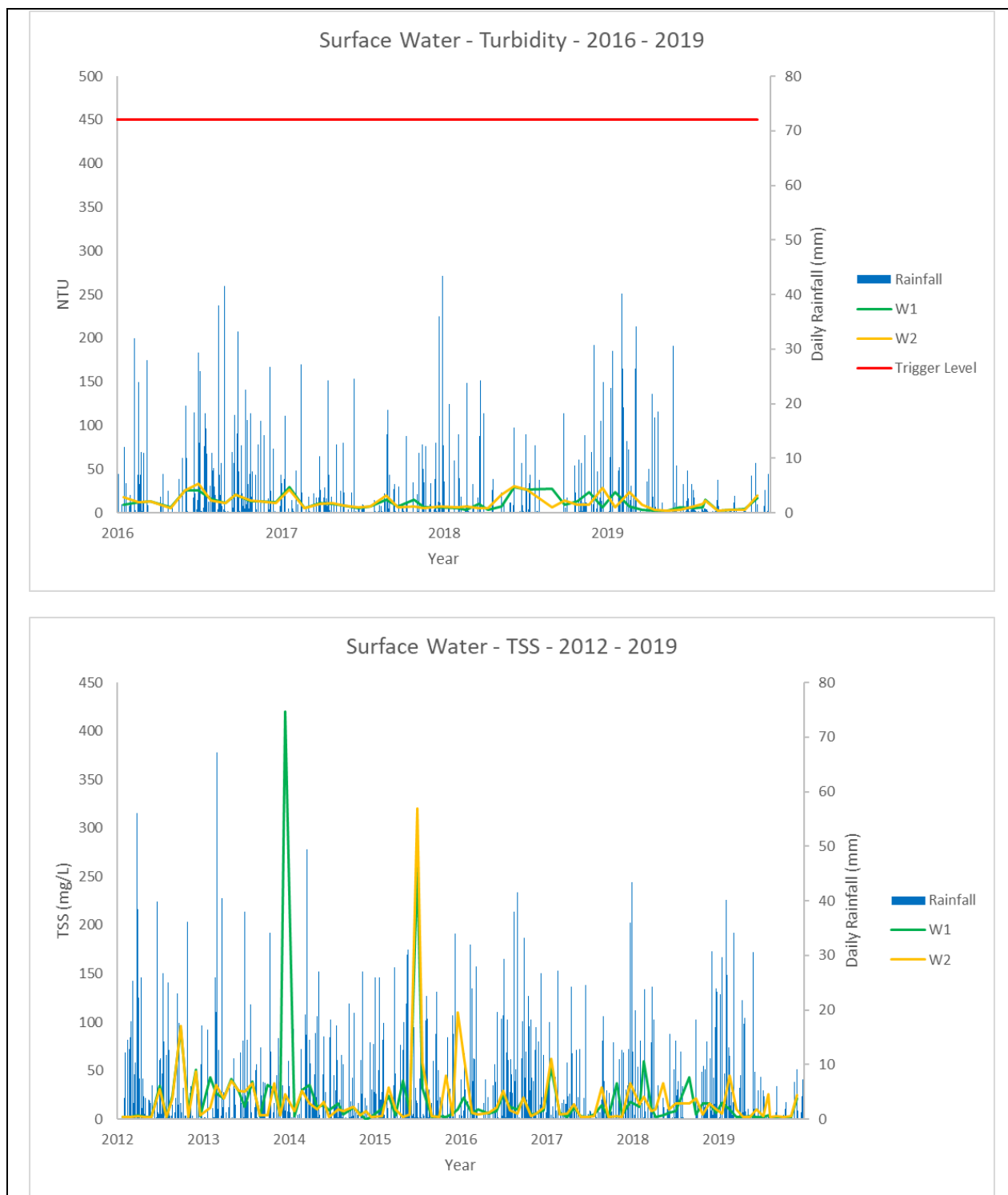


Figure 11 Surface Water Monitoring Results – Turbidity and TSS

Total Nitrogen

Total nitrogen (Total Kjeldahl Nitrogen or TKN) measurements during the reporting period ranged between 0.3mg/L and 0.9mg/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 0.15mg/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 20** presents the trigger values for groundwater quality monitoring.

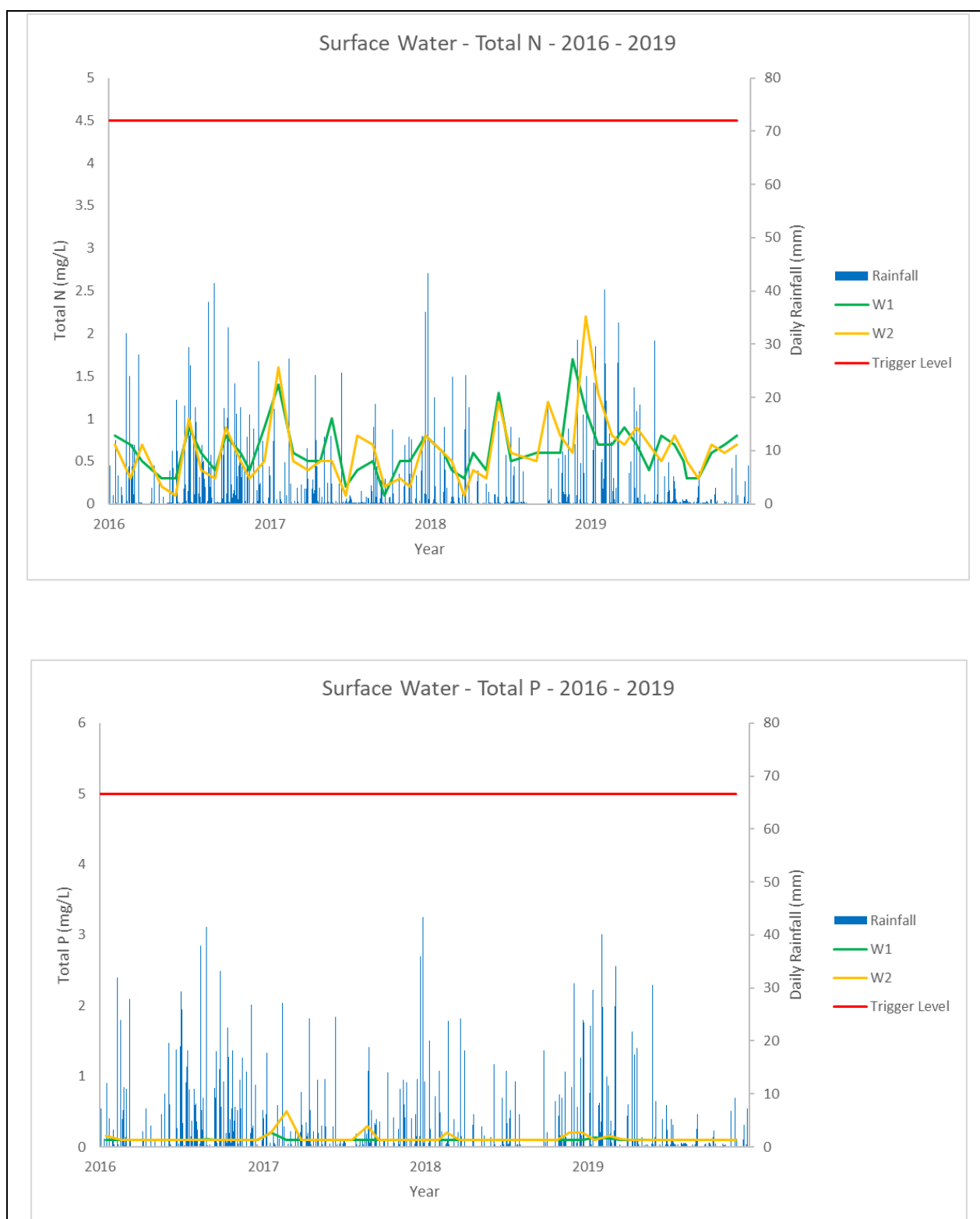


Figure 12 Surface Water Monitoring Results – Total N and Total P

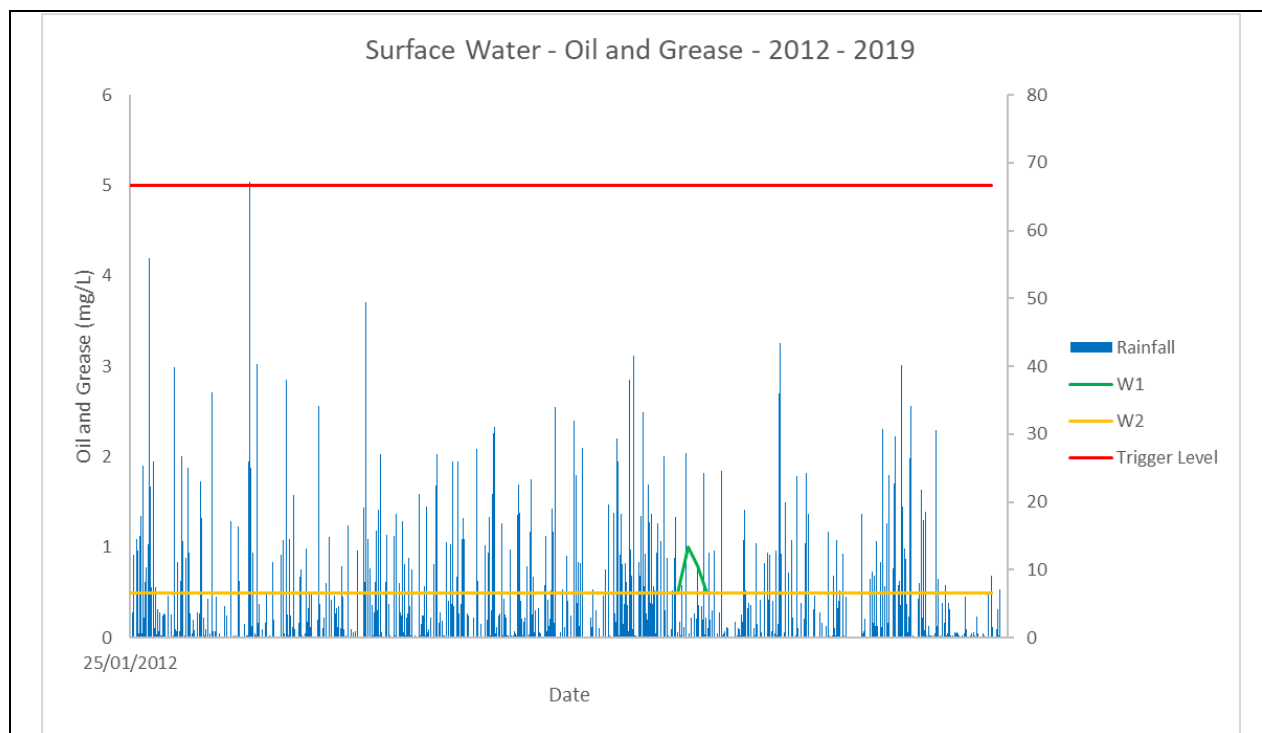


Figure 13 Surface Water Monitoring Results – Oil and Grease

**Table 20
Groundwater Trigger Values**

Pollutant	Trigger Value
pH	>9.2
Electrical Conductivity ($\mu\text{S}/\text{cm}$)	>450

Source: Oberon Quarries Pty Ltd – Water Management Plan (version dated August 2017).

Environmental Performance

Groundwater monitoring location GW1 was sampled a total of 12 times during the reporting period. **Table 21** 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 21
Groundwater Monitoring Results – 2019**

Location ¹	No. Samples	pH	EC
GW1	12	7.0 – 8.9 (7.5)	170 – 250 (218)

Note 1: See **Figure 4**.

Source: Oberon Quarries Pty Ltd.

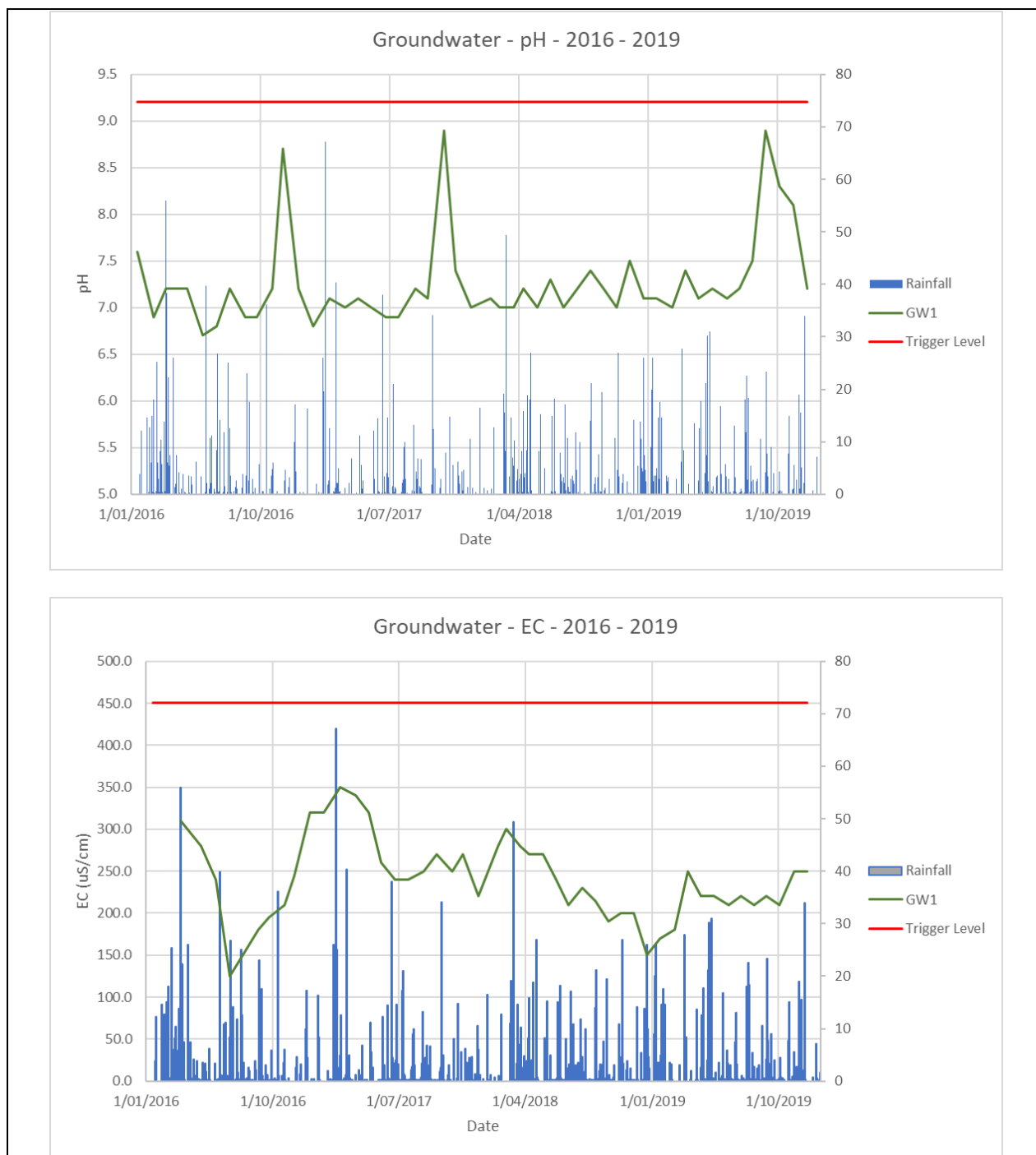


Figure 14 Groundwater Monitoring – 2016 to 2019

pH

Measurements of groundwater pH ranged between 7.0 and 8.9 during the reporting period, with a value of 8.9 recorded September 2019 being equal to the highest pH value previously recorded in October 2017 (**Figure 14**). Whilst pH values were elevated between September and November during the reporting period, no values exceeded the relevant trigger level (9.2). Measurements of pH since 2016 indicate a slight trend of increasing pH with occasional short duration increase in pH.

Electrical Conductivity

Measurements of groundwater EC ranged between 170µS/cm and 250µS/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. Whilst previous groundwater monitoring results have indicated a decline in groundwater EC following significant rainfall events, monitoring results recorded during the reporting period displayed no significant correlation with 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 22 provides a summary of the rehabilitation status of the Quarry at the end of the reporting period.

Table 22
Rehabilitation Status – 2019

	Previous Reporting Period (Actual)	This Reporting Period (Actual)	Next Reporting Period (Forecast)
Quarry Area Type	2018	2019	2020
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 1: 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) remain 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 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 handling, 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.

The Quarry received one complaint during the reporting period regarding truck movements in June 2019 which occurred within Oberon township and outside of the approved transportation route. **Table 23** provides a summary of all complaints received at the Quarry since 2015. A copy of the complaints register maintained for the Quarry and the Company's response to the complaint received during the reporting period are presented as **Appendix 5**.

Table 23
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.

Source: Oberon Quarries Pty Ltd.

10. INDEPENDENT AUDIT

The last independent environmental audit of the Quarry was undertaken during the 2017 reporting period in accordance with Condition 10 of Schedule 5 of SDD_6333. The audit report was submitted to the (then) DPE on 2 August 2017 and covered the period from September 2015 to January 2017.

The audit identified a total of one non-compliance, nine administrative non-compliances and four observations. In response to the audit findings, an action plan was developed and implemented at the Quarry. The majority of issues being addressed during the 2017 reporting period and three remaining issues were subsequently addressed during the previous reporting period. No outstanding matters identified by the audit remained to be addressed during the reporting period.

A new independent environmental audit was commissioned in October 2019 and covered the period from 1 January 2017 to 30 November 2019. It is anticipated that this audit report will be submitted to the Department of Planning, Industry and Environment in April 2020. The findings of the latest independent environmental audit will therefore be discussed in the next Annual Review for the Quarry.

11. INCIDENTS AND NON-COMPLIANCES DURING THE REPORTING PERIOD

During the reporting period there were no:

- reportable incidents or exceedances; or
- official cautions, warning letters, penalty notices or prosecution proceedings.

As discussed in Section 5, the Company website was updated during the reporting period to ensure that all necessary information concerning the Quarry was available to the public.

As outlined in Section 1, there were six non-compliances with conditions of SSD_6333 (12 including sub-components of conditions) and three with conditions of EPL 4442 during the reporting period.

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

Table 24
Non-Compliances and Responses

Page 1 of 2

Condition	Non-Compliance Summary	Response
Development Consent SSD_6333		
2/2	All conditions of SSD_6333 have not been satisfied. Refer to specific non-compliances as outlined below.	See below.
3/11(a) & 3/18	The truck wheel wash was not maintained and used during the reporting period, as required under the Air Quality Management Plan.	The wheel wash has been recommissioned and made available for use during adverse conditions (e.g. unusually dry and windy conditions).
3/11(c)	The Air Quality Management Plan does not contain a procedure for responses to adverse meteorological conditions.	The Company will undertake a review of the Air Quality Management Plan during the next reporting period and include a procedure for responses to adverse environmental conditions.
3/11(e)	No measures for greenhouse gas minimisation are detailed in the Air Quality Management Plan.	The Company will review the Air Quality Management Plan during the next reporting period and conduct a review into the feasibility of implementing greenhouse gas minimisation procedures and controls at the Quarry.
3/12	The approved air quality monitoring program does not include monitoring of PM ₁₀ and TSP as required under Condition 10 of Schedule 3 of SSD_6333.	The Company will review Air Quality Management Plan during the next reporting period and consider the necessity for PM ₁₀ and TSP monitoring at the Quarry. The current Air Quality Management Plan requires monitoring of PM ₁₀ and/or TSP only in the event that a complaint relating to either matter is received at the Quarry.
3/25	Although the rehabilitation bond has been in place since September 2018, the bond was not provided to DPIE within the required 6 month period.	As the bond has been in place since September 2018, no further action is required.

Table 24 (Cont'd)
Non-Compliances and Responses

Page 2 of 2

Condition	Non-Compliance Summary	Response
Development Consent SSD_6333 (Cont'd)		
3/28(b)	No formal program for minimising waste generation has been established at the Quarry.	As outlined in Section 6.8, the Company will review the feasibility of preparing and implementing a formal waste management plan during the next reporting period.
3/28(c)	Batteries and oils associated with derelict equipment were not managed appropriately during the reporting period.	The Company has actioned the clean-up of identified batteries and waste oils at the Quarry. Used batteries will be stored in an appropriately roofed and bunded area and used batteries and waste oil will be disposed of by an appropriately licenced waste contractor.
EPL 4442		
O1.1	The 2019 audit identified that waste batteries and oils associated with derelict equipment were not managed appropriately during the reporting period.	The Company has actioned the clean-up of identified batteries and waste oils at the Quarry. Used batteries will be stored in an appropriately roofed and bunded area and used batteries and waste oil will be disposed of by an appropriately licenced waste contractor.
O3.1	The truck wheel wash was not maintained and used during the reporting period, as required under the Air Quality Management Plan and no provision is made for dust control in pit stockpiles.	The wheel wash has been recommissioned and made available for use during adverse conditions (e.g. unusually dry and windy conditions). Product stockpiles are located within pit and therefore shielded from high winds. Stockpile watering will continue to be undertaken using the watercart, as required.
M4.2	The 2019 audit noted that a complaints register containing all necessary details was not maintained during the reporting period.	The Company will revise the format of the complaints register maintained at the Quarry to require the inclusion of all necessary details for each complaint.

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 the first and second 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 of the feasibility of preparing and implementing a formal waste minimisation procedure in the form of a waste management plan at the Quarry.
- Review and, if required, revise 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 2019 Annual Review, latest independent environmental audit report and any updated management plans.

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Appendices

(Total No. of pages including blank pages = 80)

- Appendix 1 Compliance Review (36 pages)
- Appendix 2 Development Consent SSD_6333 (30 pages)
- Appendix 3 Truck Movement and Production
Summary - 2019 (4 pages)
- Appendix 4 Blasting Agreements (6 pages)
- Appendix 5 Complaints Register and Company
Response (4 pages)



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Appendix 1

Compliance Review

(Total No. of pages including blank pages = 36)



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Table A1.1
Development Consent SSD_6333 – Compliance Review

Page 1 of 21

Cond. No.	Minister's Conditions of Consent (MCoA)	Compliance	Comments/Notes
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.	Yes	Operations during the reporting period were compliant with all relevant performance measures and criteria. Additional measures targeting the prevention and minimisation of environmental harm are implemented in accordance with the Quarry's approved management plans.
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.	No	All conditions of SSD_6333 have not been satisfied. Refer to specific non-compliances as outlined below.
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.	Yes	Requirements detailed in feedback received from the DPE regarding 2018 Annual Review were addressed during the reporting period. No outstanding requirements are awaiting action.
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.	Not Triggered	
LIMITS ON CONSENT			
Quarrying Operations			
6.	The Applicant shall not extract extractive materials below a level of 1125 m AHD.	Yes	Extraction has not proceeded below 1 125m.
7.	The Applicant may carry out quarrying operations on the site until 30 August 2045.	Noted	
Production Limits			
8.	The Applicant shall not transport more than 400,000 tonnes of quarry products from the site in any calendar year.	Yes	241 802 tonnes of product was transported from the Quarry site during the reporting period.
9.	The Applicant shall not transport more than 3,000 tonnes of quarry products from the site on any day.	Yes	Maximum average daily product transport for the 2016 to 2019 period was 2 592 tonnes.

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

Page 2 of 21

Cond. No.	Minister's Conditions of Consent (MCoA)	Compliance	Comments/Notes
SCHEDULE 2 – ADMINISTRATIVE CONDITIONS (Cont'd)			
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.	Yes	Compliance demonstrated in the 2017 independent environmental audit.
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.	Not Triggered	
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.	Not Triggered	
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.	Not Triggered	
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.	Yes	Plant and equipment are inspected by the Quarry manager weekly and any maintenance requirements are recorded. No complaints regarding plant or equipment operation were received during the reporting period.
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).	Yes Yes	An extractive materials return (DRE standard form) was submitted to DRE for the year ended 30 June 2019. Annual production data is included in Table 8 of this Annual review.

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

Page 3 of 21

Cond. No.	Minister's Conditions of Consent (MCoA)	Compliance	Comments/Notes										
SCHEDULE 2 – ADMINISTRATIVE CONDITIONS (Cont'd)													
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.	Yes Yes	2019 Audit (not yet published) confirmed the presence of survey pegs delineating the approved limits of extraction. Survey plans prepared by Central West Survey were submitted to DPE.										
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.	Yes	Survey pegs have been placed to delineate 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).	Yes Yes Yes	The payment rate during the reporting period was \$0.482/t. Payments were made monthly during the reporting period. Correspondence provided by Council for the 2019 audit confirmed that the Company has made all road maintenance payments requested by Council.										
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 <table><tr><th>Activity</th><th>Operating Hours</th></tr><tr><td>Extraction operations</td><td>7 am to 6 pm Monday to Friday 7 am to 5 pm Saturday</td></tr><tr><td>Loading and dispatch</td><td>6 am to 10 pm Monday to Friday 6 am to 5 pm Saturday</td></tr><tr><td>Construction and maintenance activities</td><td>7 am to 6pm Monday to Friday 7 am to 4 pm Saturday</td></tr><tr><td>Blasting</td><td>9 am to 5 pm Monday to Saturday</td></tr></table>	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 6pm Monday to Friday 7 am to 4 pm Saturday	Blasting	9 am to 5 pm Monday to Saturday	Yes	No complaints regarding operations outside of the approved hours were received during the reporting period.
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 6pm Monday to Friday 7 am to 4 pm Saturday												
Blasting	9 am to 5 pm Monday to Saturday												

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

Page 4 of 21

Cond. No.	Minister's Conditions of Consent (MCoA)	Compliance	Comments/Notes											
SCHEDULE 3 – ENVIRONMENTAL PERFORMANCE CONDITIONS (Cont'd)														
NOISE (Cont'd)														
Hours of Operation (Cont'd)														
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.	Not Triggered												
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) <table border="1"> <thead> <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> </thead> <tbody> <tr> <td>All privately-owned residences</td><td>35</td><td>35</td><td>45</td></tr> </tbody> </table> Noise generated by the development is to be measured in accordance with the relevant requirements and exemptions (including certain meteorological conditions) of the <i>NSW Industrial Noise Policy</i>. 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.	Receiver	Day / Evening	Night		L _{Aeq} (15 min)	L _{Aeq} (15 min)	L _{A1} (max)	All privately-owned residences	35	35	45	Yes	Noise agreements have been established between the Company and residences R5, R6 and R8. The Company owns residences R1 to R4. The discontinuation of noise monitoring was approved by the Secretary on 2 February 2017. No noise-related complaints were received during the reporting period.
Receiver	Day / Evening		Night											
	L _{Aeq} (15 min)	L _{Aeq} (15 min)	L _{A1} (max)											
All privately-owned residences	35	35	45											
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	Yes Yes Not Triggered	Noise generating activities (e.g. excavation, processing) are undertaken within the Extraction Area and Processing Area. Landforms provide acoustic shielding for activities in these areas. Relevant noise mitigation measures are outlined in the approved Noise Management Plan for the Quarry. No noise monitoring was undertaken during the reporting period. Approval to discontinue noise monitoring was received from the Secretary on 2 February 2017.											

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

Page 5 of 21

Cond. No.	Minister's Conditions of Consent (MCoA)	Compliance	Comments/Notes											
SCHEDULE 3 – ENVIRONMENTAL PERFORMANCE CONDITIONS (Cont'd)														
NOISE (Cont'd)														
Operating Conditions (Cont'd)														
4. (Cont'd)	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.	Not Triggered	No noise monitoring data was available for review during the reporting period.											
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.	Yes Yes Yes Yes Yes	The Quarry operates in accordance with the approved Noise Management Plan (version May 2018). The current Noise Management Plan has been approved by DPIE. Section 5.2 of the Noise Management Plan details measures targeting compliance with the relevant criteria and conditions. The Noise Management Plan describes the noise management system for the Quarry. Section 6.1 details the noise monitoring program for the Quarry.											
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 <table border="1"> <thead> <tr> <th>Location</th><th>Airblast overpressure (dB(Lin Peak))</th><th>Ground vibration (mm/s)</th><th>Allowable exceedance</th></tr> </thead> <tbody> <tr> <td rowspan="2">Any residence on privately-owned land</td><td>120</td><td>10</td><td>0%</td></tr> <tr> <td>115</td><td>5</td><td>5% of the total number of blasts over a period of 12 months</td></tr> </tbody> </table> 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.	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	Yes	Eight blasts were undertaken during the reporting period. Monitoring confirmed that all blasts were compliant with the relevant ground vibration and airblast overpressure 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											
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.	Yes	No more than two blasts per week were carried out during the reporting period.											

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

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Cond. No.	Minister's Conditions of Consent (MCoA)	Compliance	Comments/Notes
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.	Yes Yes Yes	Best practice blast management measures are outlined in Section 6 of the Blast Management Plan. Blasting operations are undertaken in accordance with the approved Blast Management Plan. A notification system is outlined in the Blast Management Plan. Copies of notifications issued during the reporting period were sighted. Blast monitoring was completed for each blast event during the reporting period.
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.	Yes Yes Yes Yes Yes	The Quarry operates in accordance with the approved Blast Management Plan (version August 2017). The current Blast Management Plan was approved by DPIE. Section 6 of the Blast Management Plan outlined blast management controls for the Quarry. Section 7 of the Blast Management Plan outlines the blast monitoring program for the Quarry. Section 8 of the Blast Management Plan outlines the community notification procedure for the Quarry. Section 8.3 of the Blast Management Plan outlines the complaints investigation procedure for the Quarry.

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

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Cond. No.	Minister's Conditions of Consent (MCoA)	Compliance	Comments/Notes															
SCHEDULE 3 – ENVIRONMENTAL PERFORMANCE CONDITIONS (Cont'd)																		
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 <table><tr><th>Pollutant</th><th>Averaging Period</th><th>Criterion</th></tr><tr><td>Particulate matter < 10 µm (PM₁₀)</td><td>Annual</td><td>^{a,d} 30 µg/m³</td></tr><tr><td>Particulate matter < 10 µm (PM₁₀)</td><td>24 hour</td><td>^b 50 µg/m³</td></tr><tr><td>Total suspended particulates (TSP)</td><td>Annual</td><td>^{a,d} 90 µg/m³</td></tr><tr><td>^c Deposited dust</td><td>Annual</td><td>^b 2 g/m²/month ^{a,d} 4 g/m²/month</td></tr></table>	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	Yes	Monitoring results indicate that deposited dust levels did not exceed the relevant criteria during the reporting period. The approved Air Quality Management Plan requires that PM10 and TSP monitoring be undertaken only in the event that a complaint regarding PM10 or TSP concentrations is received. No complaints regarding PM10 or TSP were received during the reporting period.
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																
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.	No Yes No Yes No Yes	Section 5.1 of the Air Quality Management Plan commits to the maintenance and use of the truck wheel wash. The truck wheel wash was not used during the reporting period as sealing of the Site Access Road has now been completed. Deposited dust monitoring data is reviewed upon receipt. No exceedances of the relevant criteria were recorded during the reporting period. The Air Quality management plan does not detail a procedure for responses to adverse meteorological conditions. Deposited dust monitoring results are published on the Company website and discussed in this Annual Review. No measures for the minimisation of greenhouse gas emissions are detailed in the Air Quality Management Plan. Extractive activities were limited to the existing pit during the reporting period. Weed control was undertaken as required during the reporting period.															

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

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Cond. No.	Minister's Conditions of Consent (MCoA)	Compliance	Comments/Notes
SCHEDULE 3 – ENVIRONMENTAL PERFORMANCE CONDITIONS (Cont'd)			
AIR QUALITY (Cont'd)			
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:	Yes	The Quarry operates in accordance with the approved Air Quality Management Plan (version May 2018).
	a) be submitted to the Secretary for approval within 6 months of the date of this consent, unless otherwise agreed by the Secretary;	Yes	The current Air Quality management plan has been approved by DPIE.
	b) describe the measures that would be implemented to ensure compliance with the air quality criteria and operating conditions of this consent;	Yes	Section 5 of the Air Quality Management Plan details measures to ensure compliance with the relevant criteria and conditions.
	c) describe the proposed air quality management system;	Yes	The Air Quality Management Plan describes the air quality management system for the Quarry.
	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.	No	The approved air quality monitoring program does not include monitoring of PM10 and TSP as required under Condition 10 of Schedule 3 of SSD_6333.
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 <i>Approved Methods for Sampling of Air Pollutants in New South Wales</i> guideline.	Yes	Meteorological data is sourced from the Borgs weather station in Oberon.
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.	Yes	The site water balance outlined in the Water management Plan indicates that rainfall provides sufficient water for Quarry operational needs. No water was extracted under WAL 3429 during the reporting period.
Water Pollution			
15.	Unless an EPL authorises otherwise, the Applicant shall comply with Section 120 of the POEO Act.	Yes	No water samples exceeded the relevant trigger levels during the reporting period. No pollution incidents were recorded during the reporting period.

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

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Cond. No.	Minister's Conditions of Consent (MCoA)	Compliance	Comments/Notes
SCHEDULE 3 – ENVIRONMENTAL PERFORMANCE CONDITIONS (Cont'd)			
SOIL AND WATER (Cont'd)			
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;	Yes Yes Yes Yes Yes Yes	The Quarry operates in accordance with the approved Water Management plan (version August 2017). DPE approved the appointment of Peter Jamieson (Umwelt) to prepare the Water Management Plan. The 2019 audit report indicates that consultation with the EPA and DPI-Water was undertaken during preparation of the Water Management Plan. The current Water Management Plan was approved by DPIE. Section 4 of the Water management Plan details the site water balance. Section 3 of the Water Management Plan outlines the water management system for the Quarry.

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

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Cond. No.	Minister's Conditions of Consent (MCoA)	Compliance	Comments/Notes
SCHEDULE 3 – ENVIRONMENTAL PERFORMANCE CONDITIONS (Cont'd)			
SOIL AND WATER (Cont'd)			
Water Management Plan (Cont'd)			
	– 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	Yes	Section 5 of the Water Management Plan details the groundwater management plan for the Quarry.
	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.	Yes	Section 7 of the Water Management Plan details the surface and groundwater contingency strategy for the Quarry.
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.	Yes	Truck records are maintained at the weighbridge. A summary of product transport and truck movements for the reporting period is available in the Company website.
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;	Yes	Quarry-related trucks were provided with appropriate signage during the reporting period.

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

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Cond. No.	Minister's Conditions of Consent (MCoA)	Compliance	Comments/Notes
SCHEDULE 3 – ENVIRONMENTAL PERFORMANCE CONDITIONS (Cont'd)			
TRANSPORT (Cont'd)			
Operating Conditions (Cont'd)			
18. (Cont'd)	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.	Yes No Yes Yes	All laden trucks entering or exiting the site had their loads covered during the reporting period. The truck wheel wash was not maintained or used during the reporting period. No complaints regarding truck movements outside of approved hours were received during the reporting period. No complaints regarding trucks queueing at the Quarry entrance were received during the reporting period.
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.	Yes	The intersection advance warning signage has been installed on the eastbound approach to the Duckmaloi Rad and Titania Road intersection (as detailed in the 2018 Annual Review).
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.	Not Triggered	
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.	Yes Yes Yes Yes	The Quarry operates in accordance with the approved Transport Management Plan (version August 2017). The current Transport Management Plan was approved by DPIE. Appendix 2 of the Transport Management Plan provides a Drivers' Code of Conduct. Section 4 of the Transport Management Plan outline measures to ensure compliance with the Drivers' Code of Conduct.

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

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Cond. No.	Minister's Conditions of Consent (MCoA)	Compliance	Comments/Notes														
SCHEDULE 3 – ENVIRONMENTAL PERFORMANCE CONDITIONS (Cont'd)																	
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 <table><tr><th>Feature</th><th>Objective</th></tr><tr><td>Site (as a whole)</td><td> - Safe, stable and non-polluting - Final landform integrated with surrounding natural landforms as far as is reasonable and feasible, and minimising visual impacts when viewed from surrounding land </td></tr><tr><td>Surface Infrastructure</td><td> - Decommissioned and removed, unless DRE agrees otherwise </td></tr><tr><td>Quarry Benches</td><td> - Landscaped and vegetated using native tree and understorey species </td></tr><tr><td>Quarry Pit Floor</td><td> - Landscaped and revegetated using improved pasture species, native trees and understorey species </td></tr><tr><td>Final Void</td><td> - Minimise the height and slope of batters - Minimise the drainage catchment </td></tr><tr><td>Community</td><td> - Ensure public safety - Minimise the adverse socio-economic effects of quarry closure </td></tr></table>	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	Not Triggered	
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.	Yes	No areas were available for rehabilitation during the reporting period. Weed control was undertaken during the reporting period as required.														
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;	Yes Yes Yes	The Quarry operates in accordance with the approved Landscape and Rehabilitation Management Plan (version May 2018). The Landscape and Rehabilitation Management Plan was approved by DPIE. Section 4.3 of the Landscape and Rehabilitation Management Plan provides details of the final landform.														

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

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Cond. No.	Minister's Conditions of Consent (MCoA)	Compliance	Comments/Notes
SCHEDULE 3 – ENVIRONMENTAL PERFORMANCE CONDITIONS (Cont'd)			
LANDSCAPE AND REHABILITATION (Cont'd)			
Landscape and Rehabilitation Management Plan (Cont'd)			
	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;	Yes	Section 5 of the Landscape and Rehabilitation Management Plan outlines measures to ensure compliance with the rehabilitation objectives.
	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;	Yes	Section 6 of the Landscape and Rehabilitation Management Plan outlines measures to be implemented between 2018 and 2020. As outlined in Section 6.6 of this Annual Review, the establishment of residual vegetation monitoring plots will be completed by 2023 at the earliest.
	e) include a program to monitor and report on the effectiveness of these measures, and progress against the performance and completion criteria;	Yes	Section 7 of the Landscape and Rehabilitation Management Plan outlines the rehabilitation monitoring program for the Quarry. As outlined in Section 6.6 of this Annual Review, the establishment of residual vegetation monitoring plots will be completed by 2023 at the earliest. As outlined in the Plan, rehabilitation monitoring will commence once the final landform has been achieved.
	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	Yes	Section 10 of the Landscape and Rehabilitation Management Plan includes a rehabilitation risk assessment.
	g) include details of who would be responsible for monitoring, reviewing, and implementing the plan.	Yes	Section 11 of the Landscape and Rehabilitation Management Plan details responsibilities for Plan implementation.

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

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Cond. No.	Minister's Conditions of Consent (MCoA)	Compliance	Comments/Notes
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.	No Yes Yes	Although the rehabilitation bond has been in place since September 2018, the bond was not provided to DPIE within the required 6 month period. The calculated cost in the rehabilitation bond was approved by DPIE on 5 April 2018. DPIE approved the appointment of Luke Betteridge to prepare the rehabilitation bond.
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.	Not Triggered	The first review of the bond is due within 3 months following the finalisation of the 2019 audit report.
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.	Yes	No complaints regarding off-site lighting impacts were received during the reporting period.
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.	Yes No No Yes	Two septic tanks are installed at the Quarry. A licenced contractor is engaged to dispose of sewage waste off site. The 2019 audit identified no formal program for minimising waste generation at the Quarry. The 2019 audit identified that waste batteries and oils associated with derelict equipment were not managed appropriately during the reporting period. Section 6.8 details provides details regarding waste management and minimisation during the reporting period.

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

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Cond. No.	Minister's Conditions of Consent (MCoA)	Compliance	Comments/Notes
SCHEDULE 3 – ENVIRONMENTAL PERFORMANCE CONDITIONS (Cont'd)			
WASTE (Cont'd)			
29.	Except as expressly permitted in an EPL, the Applicant must not receive waste at the site for storage, treatment, processing, reprocessing or disposal.	Yes	No wastes were accepted at the Quarry during the reporting period.
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.	Yes	Dangerous goods at the Quarry (i.e. diesel and emulsion) were stored in tanks that are bunded in accordance with the relevant Australian Standard during the reporting period.
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.	Yes	Dangerous goods were appropriately stored and handled during the reporting period.
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.	Yes	Appropriate firefighting equipment is available at the Quarry.
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).	Not Triggered Not Triggered	
INDEPENDENT REVIEW			
2.	If an owner of privately-owned land considers the development to be exceeding the relevant criteria in Schedule 3, then he/she may ask the Secretary in writing for an independent review of the impacts of the development on his/her land.	Not Triggered	

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

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Cond. No.	Minister's Conditions of Consent (MCoA)	Compliance	Comments/Notes
SCHEDULE 5 – ENVIRONMENTAL MANAGEMENT, REPORTING AND AUDITING (Cont'd)			
INDEPENDENT REVIEW (Cont'd)			
Environmental Management Strategy (Cont'd)			
	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.	Yes	The relevant plans are included as appendices to the Environmental Management Strategy.
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	Yes	All plans required by SSD_6333 have been approved by DPIE (or the then DPE) and include the necessary information.

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

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Cond. No.	Minister's Conditions of Consent (MCoA)	Compliance	Comments/Notes
SCHEDULE 5 – ENVIRONMENTAL MANAGEMENT, REPORTING AND AUDITING (Cont'd)			
INDEPENDENT REVIEW (Cont'd)			
Management Plan Requirements (Cont'd)			
	h) a protocol for periodic review of the plan. <i>Note: The Secretary may waive some of these requirements if they are unnecessary or unwarranted for particular management plans.</i>		
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.	Noted	
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.	Not Triggered	
Revision of Strategies, Plans and 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. <i>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.</i>	Yes	Management plans for the Quarry were reviewed following the submission of the 2018 Annual Review during this reporting period. A further, combined review will be undertaken following the submission of this Annual review and the 2019 independent environmental audit report.
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;	Yes Not Triggered	No exceedances of the relevant criteria were recorded during the reporting period.

Table A1.1 (Cont'd)
Development Consent SSD 6333 – Compliance Review

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Cond. No.	Minister's Conditions of Consent (MCoA)	Compliance	Comments/Notes
SCHEDULE 5 – ENVIRONMENTAL MANAGEMENT, REPORTING AND AUDITING (Cont'd)			
INDEPENDENT REVIEW (Cont'd)			
Adaptive Management (Cont'd)			
	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.	Not Triggered	No incidents were recorded during the reporting period.
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.	Yes	The Company has published monitoring data for the reporting period on its website.
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;	Yes Yes Yes Yes	This Annual Review. See Table 4 of this Annual Review.

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

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Cond. No.	Minister's Conditions of Consent (MCoA)	Compliance	Comments/Notes
SCHEDULE 5 – ENVIRONMENTAL MANAGEMENT, REPORTING AND AUDITING (Cont'd)			
ANNUAL REVIEW (Cont'd)			
	d) identify any trends in the monitoring data over the life of the development;	Yes	
	e) identify any discrepancies between the predicted and actual impacts of the development, and analyse the potential cause of any significant discrepancies; and	Yes	
	f) describe what measures will be implemented over the current calendar year to improve the environmental performance of the development.	Yes	
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:	Yes	An independent environmental audit was commissioned in October 2019 during the reporting period.
	a) be conducted by a suitably qualified, experienced and independent team of experts whose appointment has been endorsed by the Secretary;	Yes	
	b) include consultation with the relevant agencies;	Yes	
	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);	Yes	
	d) review the adequacy of strategies, plans or programs required under the abovementioned approvals; and	Yes	A draft version of this audit report (not yet finalised or submitted to DPIE) contains the required information.
	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.	Yes	
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.	Not Triggered	Six weeks have not yet passed since the completion of the 2019 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;	Yes	All required documents and information is available on the Company website (http://oberonquarries.com.au/).
	• current statutory approvals for the development;	Yes	

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

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Cond. No.	Minister's Conditions of Consent (MCoA)	Compliance	Comments/Notes
SCHEDULE 5 – ENVIRONMENTAL MANAGEMENT, REPORTING AND AUDITING (Cont'd)			
ACCESS TO INFORMATION (Cont'd)			
	all approved strategies, plans and programs required under the conditions of this consent;	Yes	
	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;	Yes	
	a complaints register, updated monthly;	Yes	
	the annual reviews of the development;	Yes	
	any independent environmental audit, and the Applicant's response to the recommendations in any audit; and	Yes	
	any other matter required by the Secretary.	Not Triggered	
	b) keep this information up-to-date, to the satisfaction of the Secretary.	Yes	The latest monitoring results and the previous Annual Review are available on the Company's website. This Annual Review and the 2019 independent environmental audit will be uploaded during the next reporting period following submission to and acceptance by DPIE.

Table A1.2
Environment Protection Licence 4442 – Compliance Review

Page 1 of 10

Cond. No.	Condition	Compliance	Comments/Notes									
1 – Administrative Conditions												
A1 – What the licence authorises and regulates												
A1.1	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>	Scheduled Activity	Fee Based Activity	Scale	Crushing, grinding or separating	Crushing, grinding or separating	> 100000 - 500000 T annual processing capacity	Extractive activities	Land-based extractive activity	> 100000 - 500000 T annual capacity to extract, process or store	Yes	A total of 241 802t of product was transported off site during the reporting period.
Scheduled Activity	Fee Based Activity	Scale										
Crushing, grinding or separating	Crushing, grinding or separating	> 100000 - 500000 T annual processing capacity										
Extractive activities	Land-based extractive activity	> 100000 - 500000 T annual capacity to extract, process or store										
A2 – Premises or plant to which this licence applies												
A2.1	The licence applies to the following premises: Langley Heights Hard Rock Quarry Hargraves Quarry Road Oberon NSW 2787 LOT 94 DP 757067, LOT 107 DP 757067, LOT 108 DP 757067, LOT 2 DP 845776, LOT 3 DP 845776, LOT 3 DP 1087170 PARISH OF NORWAY, OBERON LOCAL GOVERNMENT AREA	Noted										
A3 – Information supplied to the EPA												
A3.1	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	Noted										

Table A1.2 (Cont'd)
Environment Protection Licence 4442 – Compliance Review

Page 2 of 10

Cond. No.	Condition	Compliance	Comments/Notes																				
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. Air <table border="1"> <thead> <tr> <th>EPA ID No.</th><th>Type of Monitoring Point</th><th>Type of Discharge Point</th><th>Location Description</th></tr> </thead> <tbody> <tr> <td>1</td><td>Dust deposition monitoring</td><td></td><td>Labelled as "D1" in the figure provided by the licensee on 13 May 2018 titled "Licence 4442 - Environmental Monitoring Locations" (DOC18/95523-04).</td></tr> <tr> <td>2</td><td>Dust deposition monitoring</td><td></td><td>Labelled as "D2" in the figure provided by the licensee on 13 May 2018 titled "Licence 4442 - Environmental Monitoring Locations" (DOC18/95523-04)</td></tr> <tr> <td>3</td><td>Dust deposition monitoring</td><td></td><td>Labelled as "D3" in the figure provided by the licensee on 13 May 2018 titled "Licence 4442 - Environmental Monitoring Locations" (DOC18/95523-04).</td></tr> <tr> <td>4</td><td>Dust deposition monitoring</td><td></td><td>Labelled as "D4" in the figure provided by the licensee on 13 May 2018 titled "Licence 4442 - Environmental Monitoring Locations" (DOC18/95523-04).</td></tr> </tbody> </table>	EPA ID 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).	Noted	
EPA ID 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).																				
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. Water and land <table border="1"> <thead> <tr> <th>EPA ID No.</th><th>Type of Monitoring Point</th><th>Type of Discharge Point</th><th>Location Description</th></tr> </thead> <tbody> <tr> <td>7</td><td>Discharge to waters; water quality monitoring</td><td>Discharge to waters; water quality monitoring</td><td>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)</td></tr> </tbody> </table>	EPA ID 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)	Noted													
EPA ID 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)																				
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.	Yes	No pollution events were recorded during the reporting period.																				

Table A1.2 (Cont'd)
Environment Protection Licence 4442 – Compliance Review

Page 3 of 10

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Cond. No.	Condition	Compliance	Comments/Notes																								
3 – Limit Conditions (Cont'd)																											
L2 – Concentration limits																											
L2.1	For each monitoring/discharge point or utilisation area specified in the table 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.	Yes	No water monitoring results exceeded the relevant trigger levels during the reporting period.																								
L2.2	Where a pH quality limit is specified in the table, the specified percentage of samples must be within the specified ranges.	Yes	No water monitoring results exceeded the relevant trigger levels during the reporting period.																								
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.	Noted																									
L2.4	Water and/or Land Concentration Limits Point 7	Yes	No water monitoring results exceeded the relevant trigger levels during the reporting period.																								
	<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>	Pollutant	Units of Measure	50 percentile concentration limit	90 percentile concentration limit	3DGM concentration limit	100 percentile concentration limit	Oil and Grease	milligrams per litre				10	pH	pH				6.5-8.5	Total suspended solids	milligrams per litre				50		
Pollutant	Units of Measure	50 percentile concentration limit	90 percentile concentration limit	3DGM concentration limit	100 percentile concentration limit																						
Oil and Grease	milligrams per litre				10																						
pH	pH				6.5-8.5																						
Total suspended solids	milligrams per litre				50																						
L3 – Waste																											
L3.1	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.	Yes	No waste was accepted at the Quarry during the reporting period.																								
L3.2	This condition only applies to the storage, treatment, processing, reprocessing or disposal of waste at the premises if it requires an environment protection licence.	Noted																									
L4 – Noise limits																											
L4.1	Noise from the premises must not exceed: a) 36 dB(A) LAeq(15 minute) during the day (7am to 6pm) Monday to Friday and 7.00am to 5.00pm Saturday ; and b) 35 dB(A) LAeq(15 minute) during the evening (6pm to 10pm) Monday to Friday; and c) at all other times 35 dB(A) LAeq (15 minute), except as expressly provided by this licence. Where LAeq means the equivalent continuous noise level – the level of noise equivalent to the energy-average of noise levels occurring over a measurement period.	Yes	Noise agreements have been established between the Company and residences R5, R6 and R8. The Company owns residences R1 to R4. The discontinuation of noise monitoring was approved by the Secretary on 2 February 2017. No noise-related complaints were received during the reporting period.																								

Table A1.2 (Cont'd)
Environment Protection Licence 4442 – Compliance Review

Page 4 of 10

Cond. No.	Condition	Compliance	Comments/Notes
3 – Limit Conditions (Cont'd)			
L4 – Noise limits (Cont'd)			
L4.2	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)".	Noted	
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.	Yes	Blast monitoring results did not exceed the relevant criteria during the reporting period.
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.	Yes	Blast monitoring results did not exceed the relevant criteria during the reporting period.
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.	Yes	Blast monitoring results did not exceed the relevant criteria during the reporting period.
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.	Yes	Blast monitoring results did not exceed the relevant criteria during the reporting period.
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.	Yes	All work at the Quarry was undertaken within the approved hours. No complaints regarding activities outside of approved hours were received during the reporting period.

Table A1.2 (Cont'd)
Environment Protection Licence 4442 – Compliance Review

Page 5 of 10

Cond. No.	Condition	Compliance	Comments/Notes
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.	Yes No	The 2019 audit notes that activities observed during the site inspection were generally undertaken in a competent manner. The 2019 audit identified that waste batteries and oils associated with derelict equipment were not managed appropriately during the reporting period.
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.	Yes	Plant and equipment are inspected by the Quarry manager weekly and any maintenance requirements are recorded. No complaints regarding plant or equipment operation were received during the reporting period.
O3 – Dust			
O3.1	The premises must be maintained in a condition which minimises or prevents the emission of dust from the premises.	No	All controls outlined in the approved Air Quality management Plan were implemented during the reporting period with the exception of the truck wheel wash. No provision is made for dust control in pit stockpiles.
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.	Not Triggered	No discharge was required from Sediment Basin 3 (Point 7) during the reporting period.
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.	Not Triggered	
O4.3	The licensee must undertake maintenance to desilt all sediment ponds to retain their design storage capacities.	Yes	The 2019 audit indicated that no significant silt build up was observed in any sediment basins at the Quarry.
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.	Yes	All required information is recorded and published on the Company website.
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;	Yes	All required information is recorded and published on the Company website.

Table A1.2 (Cont'd)
Environment Protection Licence 4442 – Compliance Review

Page 6 of 10

Cond. No.	Condition	Compliance	Comments/Notes		
5 – Monitoring and Recording Conditions (Cont'd)					
M1 – Monitoring records (Cont'd)					
	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.				
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.	Yes	All required information is maintained by the Company.		
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:	Yes	The appropriate methods were employed at the Quarry during the reporting period.		
M2.2	Air Monitoring Requirements Point 1, Point 2, Point 3, Point 4		Yes The specified monitoring method was employed during the reporting period.		
	Pollutant	Units of measure		Frequency	Sampling Method
	Particulates - Deposited Matter	grams per square metre per month		Monthly	AM-19
M2.3	Water and/ or Land Monitoring Requirements Point 7		Not Triggered		
	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
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	Yes	The specified monitoring method was employed during the reporting period.		

Table A1.2 (Cont'd)
Environment Protection Licence 4442 – Compliance Review

Page 7 of 10

Cond. No.	Condition	Compliance	Comments/Notes
5 – Monitoring and Recording Conditions (Cont'd)			
M3 – Testing methods - concentration limits (Cont'd)			
M3.1 (Cont'd)	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.		
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.	Yes	The specified monitoring method was employed during the reporting period.
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.	Yes	A summary of complaints received at the Quarry is available on the Company website and in Section 9 of this Annual Review.
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.	No	The 2019 audit noted that a complaints register containing all necessary details was not maintained during the reporting period.
M4.3	The record of a complaint must be kept for at least 4 years after the complaint was made.	No	The 2019 audit noted that a complaints register containing all necessary details was not maintained during the reporting period.
M4.4	The record must be produced to any authorised officer of the EPA who asks to see them.	Noted	
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.	Yes	The contact number for the Quarry is published on the Company website, Quarry trucks and at the site entrance.
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.	Yes	The contact number for the Quarry is published on the Company website.
M5.3	The preceding two conditions do not apply until 3 months after the date of the issue of this licence.	Noted	

Table A1.2 (Cont'd)
Environment Protection Licence 4442 – Compliance Review

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Cond. No.	Condition	Compliance	Comments/Notes
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.	Yes	An Annual Return covering the periods from 11/01/2018 to 10/01/2019 was submitted during the reporting period.
R1.2	An Annual Return must be prepared in respect of each reporting period, except as provided below.	Yes	An Annual Return covering the periods from 11/01/2018 to 10/01/2019 was submitted during the reporting period.
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	
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	

Table A1.2 (Cont'd)
Environment Protection Licence 4442 – Compliance Review

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Cond. No.	Condition	Compliance	Comments/Notes
6 – Reporting Conditions (Cont'd)			
R1 – Annual return documents (Cont'd)			
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').	Yes	The Annual Return for the period 11/01/2018 to 10/01/2019 was submitted within the required period.
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.	Yes	Records of Annual returns are maintained by the Company.
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.	Yes	The Annual Return was submitted by the licence holder.
R2 – Notification of environmental harm			
R2.1	Notifications must be made by telephoning the Environment Line service on 131 555.	Not Triggered	
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.	Not Triggered	
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.	Not Triggered	
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.	Not Triggered	
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;	Not Triggered	

Table A1.2 (Cont'd)
Environment Protection Licence 4442 – Compliance Review

Page 10 of 10

Cond. No.	Condition	Compliance	Comments/Notes
6 – Reporting Conditions (Cont'd)			
R3 – Written Report (Cont'd)			
	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.		
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	copy of this licence must be kept at the premises to which the licence applies.	Yes	A copy of EPL 4442 is kept at the Quarry.
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.	Yes	An electronic and hard copy of EPL 4442 is kept at the Quarry.

Table A1.3
Water Access Licence (WAL) 34279 – Compliance Review

Page 1 of 2

Cond. No.	Condition	Compliance	Comments/Notes
Take of Water			
MW0112-00001	The maximum water allocation that may be carried over in the account for this access licence from one water year to the next water year is: A. a volume equal to 100 % of the share component of the licence, or B. 1 ML/unit share of the share component of the licence.	Noted	
MW0605-00001	Water must be taken in compliance with the conditions of the approval for the nominated work on this access licence through which water is to be taken.	Noted	No water was extracted under WAL 34279 during the reporting period. Therefore, water take did not exceed the allocation.
MW0036-00001	The volume of water taken in any three (3) consecutive water years from 1 July 2013 must be recorded in the logbook at the end of those three water years. The maximum volume of water permitted to be taken in those years must also be recorded in the logbook.	Yes	A logbook containing the relevant information is maintained at the Quarry.
MW0004-00001	From 1 July 2013, the total volume of water taken in any three (3) consecutive water years under this access licence must not exceed a volume which is equal to the lesser of either: A. the sum of: i. water in the account from the available water determinations in those 3 consecutive water years, plus ii. water in the account carried over from the water year prior to those 3 consecutive water years, plus iii. any net amount of water assigned to or from this account under a water allocation assignment in those 3 consecutive water years, plus iv. any water re-credited by the Minister to the account in those 3 consecutive water years, or B. the sum of: i. the share component of this licence at the beginning of the first year in those 3 consecutive water years, plus ii. the share component of this licence at the beginning of the second year in those 3 consecutive water years, plus	Yes	No water was extracted under WAL 34279 during the reporting period. Therefore, water take did not exceed the allocation. No water take under WAL 34279 was recorded in either the 2018 or 2017 Annual Reviews for the Quarry.

Table A1.3 (Cont'd)
Water Access Licence (WAL) 34279 – Compliance Review

Page 2 of 2

Cond. No.	Condition	Compliance	Comments/Notes
Take of Water (Cont'd)			
	iii. the share component of this licence at the beginning of the third year in those 3 consecutive water years, plus iv. any net amount of water assigned to or from this account under a water allocation assignment in those 3 consecutive water years, plus v. any water re-credited by the Minister to the account in those 3 consecutive water years.		
Monitoring and recording			
MW2338-00001	The completed logbook must be retained for five (5) years from the last date recorded in the logbook.	Yes	A logbook containing the relevant information is maintained at the Quarry.
MW2336-00001	The purpose or purposes for which water is taken, as well as details of the type of crop, area cropped, and dates of planting and harvesting, must be recorded in the logbook each time water is taken.	Yes	A logbook containing the relevant information is maintained at the Quarry.
MW2337-00001	The following information must be recorded in the logbook for each period of time that water is taken: A. date, volume of water, start and end time when water was taken as well as the pump capacity per unit of time, and B. the access licence number under which the water is taken, and C. the approval number under which the water is taken, and D. the volume of water taken for domestic consumption and/or stock watering.	Yes	A logbook containing the relevant information is maintained at the Quarry.
MW2339-00001	A logbook must be kept, unless the work is metered and fitted with a data logger. The logbook must be produced for inspection when requested by the relevant licensor.	Yes	A logbook containing the relevant information is maintained at the Quarry.
Reporting			
MW0051-00002	Once the licence holder becomes aware of a breach of any condition on this access licence, the licence holder must notify the Minister as soon as practicable. The Minister must be notified by: A. email: water.enquiries@dpi.nsw.gov.au, or B. telephone: 1800 353 104. Any notification by telephone must also be confirmed in writing within seven (7) business days of the telephone call.	Not Triggered	

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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 / 7 /

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

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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 <i>Proposed Extended Life of Operations and Development Changes to Oberon Quarry</i> , dated January 2015, as modified by the Response to Submissions titled, <i>SSD 6333 – Oberon Quarry Continuation Project Modification</i> , dated 27 July 2015
EPA	NSW Environment Protection Authority
EP&A Act	<i>Environmental Planning and Assessment Act 1979</i>
EP&A Regulation	<i>Environmental Planning and Assessment Regulation 2000</i>
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	<i>Protection of the Environment Operations Act 1997</i>
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

- 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.

- The following activities may be carried out on the site outside the hours specified in condition 1:
 - delivery or dispatch of materials as requested by Police or other authorities; and
 - 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

- 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

- The Applicant shall:
 - implement best practice management to minimise the operational and road transportation noise of the development;
 - minimise the noise impacts of the development during meteorological conditions when the noise criteria in this consent do not apply (see Appendix 4);
 - 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
 - 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

- 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:
- implement best practice management to minimise the dust emissions of the development;
 - 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;
 - minimise the air quality impacts of the development during adverse meteorological conditions and extraordinary events (see note d under Table 4);
 - monitor and report on compliance with the relevant air quality conditions in this consent;
 - implement all reasonable and feasible measures to minimise the release of greenhouse gas emissions from the site; and
 - 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:
- be submitted to the Secretary for approval within 6 months of the date of this consent, unless otherwise agreed by the Secretary;
 - describe the measures that would be implemented to ensure compliance with the air quality criteria and operating conditions of this consent;
 - describe the proposed air quality management system;
 - 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:
 - 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;
 - a detailed description of the surface water management system on site including the:
 - o clean water diversion system;
 - o erosion and sediment controls;
 - o dirty water management system; and
 - o water storages; and
 - a program to monitor and report on:
 - o any surface water discharges;
 - o the effectiveness of the water management system;
 - o maintaining sufficient dirty water storage capacity to avoid discharges of sediment-laden water; and
 - o 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:
- 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;
 - all laden trucks entering or exiting the site have their loads covered;
 - all laden trucks exiting the site are cleaned of material that may fall on the road, before leaving the site;
 - 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
 - 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:
- 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
 - 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:
- be submitted to the Secretary for approval within 6 months of the date of this consent, unless otherwise agreed by the Secretary;
 - include a Drivers' Code of Conduct to minimise the impacts of development-related trucks on local residences and road users; and
 - 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:
- be submitted to the Secretary for approval within 6 months of the date of this consent, unless otherwise agreed by the Secretary;
 - provide details of the conceptual final landform and associated land uses for the site;
 - 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;
 - 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;
 - include a program to monitor and report on the effectiveness of these measures, and progress against the performance and completion criteria;
 - 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
 - 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:
- calculating the cost of rehabilitating the site, taking into account the likely surface disturbance over the next 3 years of quarrying operations; and
 - 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.

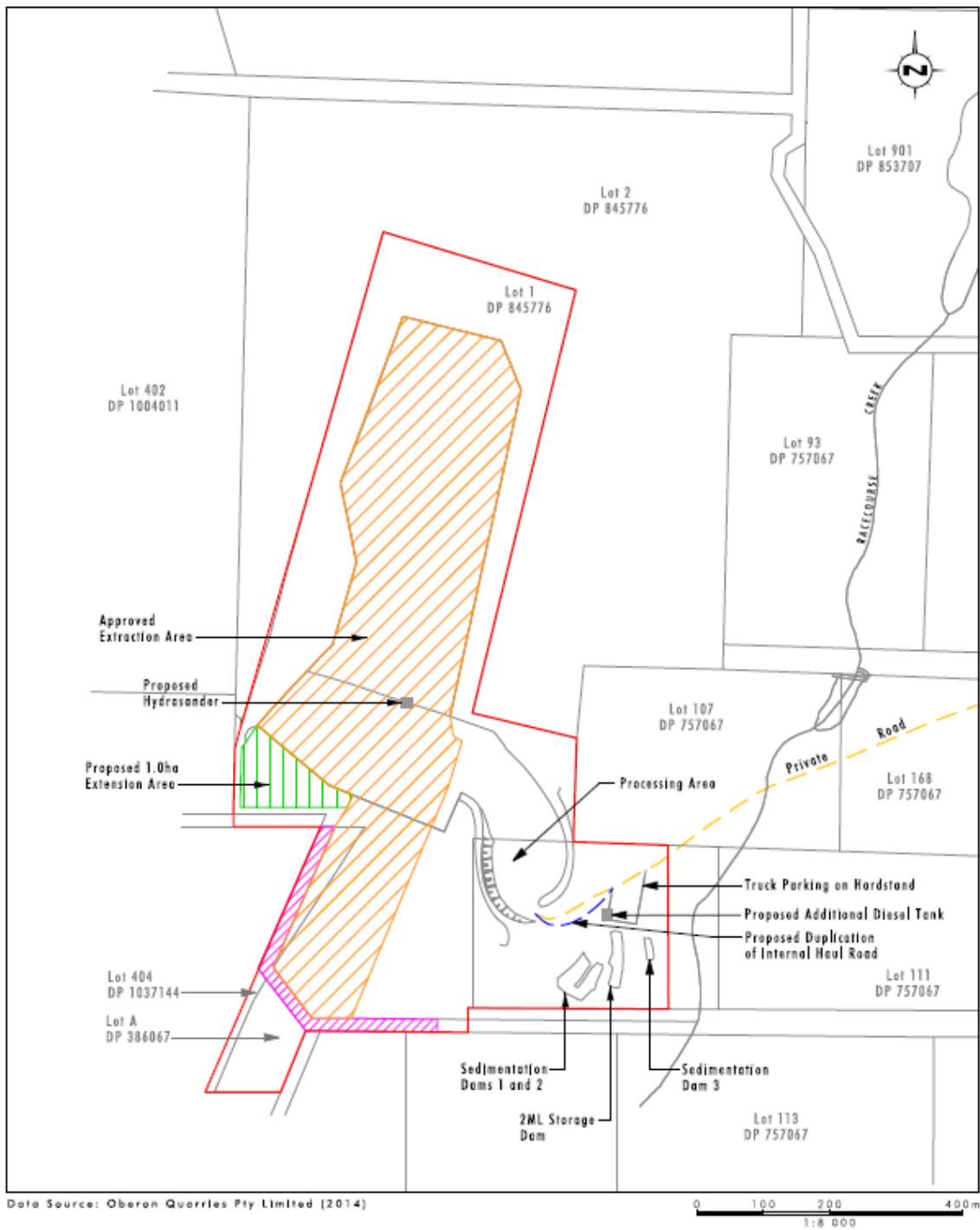
Note: This audit team must be led by a suitably qualified auditor and include experts in any fields specified by the Secretary.

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



- Legend**
- Project Area
 - Crown Road Reserve
 - Approved Extraction Area
 - Proposed Extension (1.0ha)
 - Right of Carriageway (12m wide)
 - Proposed Duplication of Internal Haul Road

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
<i>Improving transport diesel use efficiency</i>	
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.
<i>Improving on-site diesel use efficiency</i>	
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 undertaken 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.
<i>Haul Truck Options</i>	
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.
<i>Improving electricity efficiency of processing equipment</i>	
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 where 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 throughput of the quarry.

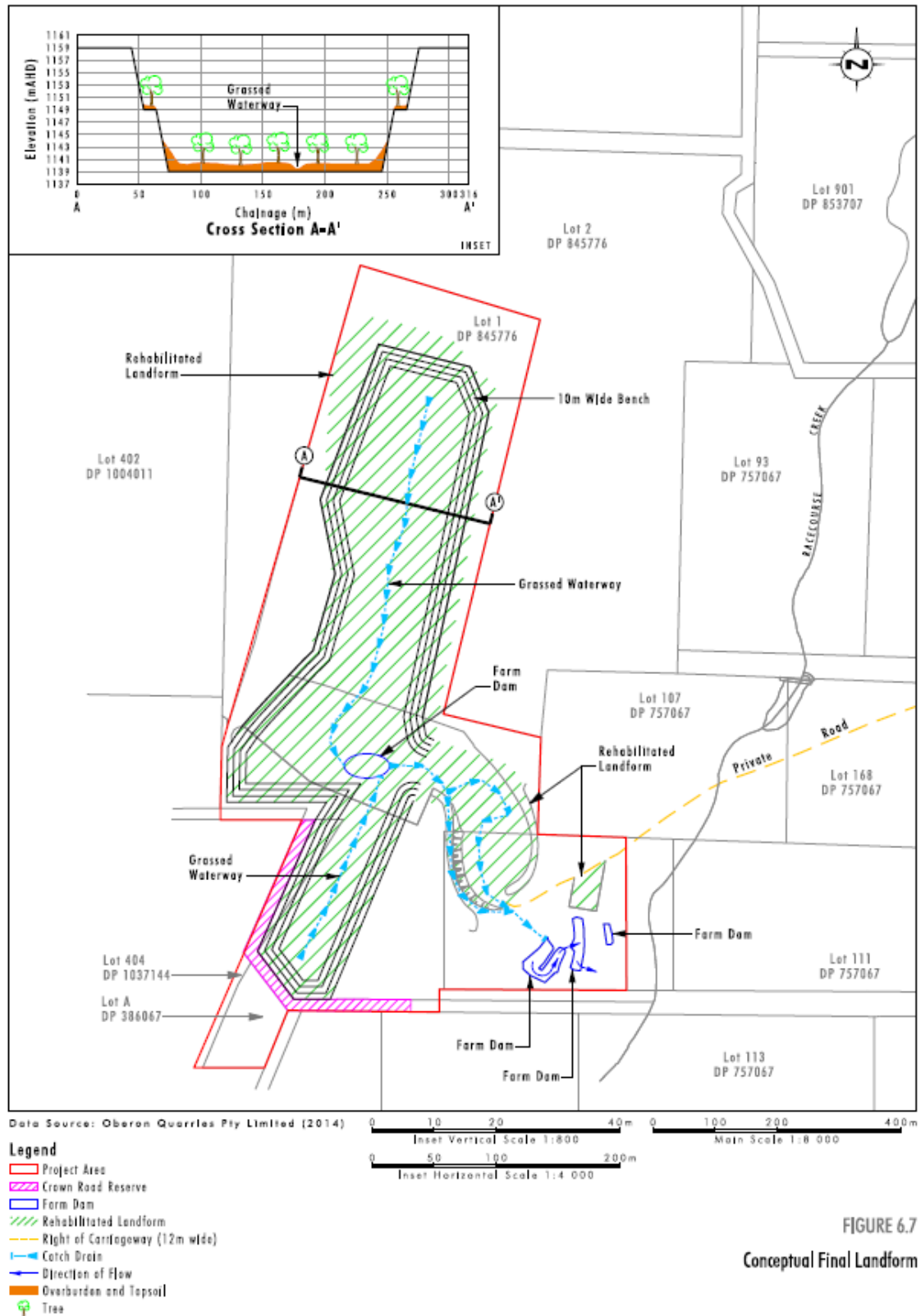
Waste

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



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 m²) — 21.5 tonnes of sealing aggregate;
- (b) Edith/Titania Road Intersection (surface area 1500 m²) — 23 tonnes of sealing aggregate and 750 tonnes of road base; and
- (c) Titania/Duckmaloi Road Intersection (surface area 1300 m²) — 20 tonnes of sealing aggregate.

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Appendix 3

Truck Movement and Product Transport Summary - 2019

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OBERON QUARRIES

JANUARY 2019 – DECEMBER 2019

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 2019 through to December 2019 Oberon Quarries recorded the following information:

2019

January 2019	There were 606 truck movements for the month and a total of 12,913.62 tonnes of material that left the quarry.
February 2019	There were 823 truck movements for the month and a total of 21,348.73 tonnes of material that left the quarry.
March 2019	There were 683 truck movements for the month and a total of 18,344.24 tonnes of material that left the quarry.
April 2019	There were 818 truck movements for the month and a total of 22,377.39 tonnes of material that left the quarry.
May 2019	There were 734 truck movements for the month and a total of 16,026.72 tonnes of material that left the quarry.
June 2019	There were 770 truck movements for the month and a total of 20,948.09 tonnes of material that left the quarry.
July 2019	There were 768 truck movements for the month and a total of 19,707.80 tonnes of material that left the quarry.
August 2019	There were 792 truck movements for the month and a total of 21,921.84 tonnes of material that left the quarry.
September 2019	There were 574 truck movements for the month and a total of 17,223.56 tonnes of material that left the quarry.
October 2019	There were 850 truck movements for the month and a total of 22,790.61 tonnes of material that left the quarry.
November 2019	There were 1,050 truck movements for the month and a total of 29,355.45 tonnes of material that left the quarry.
December 2019	There were 706 truck movements for the month and a total of 18,844.24 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 Agreements

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Oberon Quarries Pty Ltd
Hargraves Quarry Road,
Oberon NSW 2787
Phone: (02) 6336 0259

25 August, 2016

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

To whom it may concern,

As the residents at 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 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 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 on receipt of a noise complaint.

Yours sincerely,

Signature:

Name:

ANTHONY ALEVRA



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

13 April 2018

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

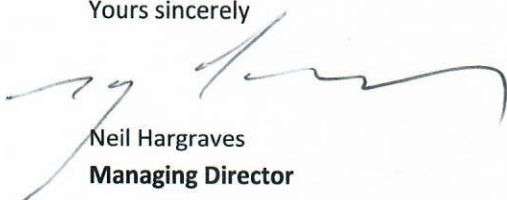
On the 14 September 2015 the Department of Planning and Environment granted Development Consent (SSD_6333), which permits the continuation of quarrying activities for a further 30 years. The Development Consent details a number of environmental monitoring and performance requirements for these quarrying activities. Specifically Schedule 3, Condition 6 relates to the maximum noise and vibration levels for blasting operations.

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 blast noise and vibration monitoring results have typically been below the levels, as specified in the Development Consent and Environment Protection Licence. On occasion when exceedences of these levels have occurred, which have been associated with the noise level, we have provided you with notification.

While we propose to continue to undertake blasting, such that the level of noise and vibration generated is below the maximum levels allowed, we seek your agreement to higher levels in accordance with Schedule 3, Condition 6. Oberon Quarries does not intend to generate blast levels greater than that generated previously. 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 to continue to monitor blasts at your property for due diligence purposes. Oberon Quarries will also continue to advise you of blasts results above the levels specified in Schedule 3, Condition 6 of the Development Consent, if requested for your information. Oberon Quarries is also willing to provide you with all blasting monitoring results, if requested.

If you are in agreement with the above, Oberon Quarries would appreciate if you could sign and date the blast agreement below and return for our records.

Yours sincerely



Neil Hargraves
Managing 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

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).

If in the future we have any objections we will raise these directly with the Quarry Manager.

Yours sincerely

Signature: 

Name: Anthony Alevras

Date: 17/04/2018



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:

Name:

John Hackfath

Appendix 5

Complaints Register and Company Response

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OBERON **QUARRIES**

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.



OBERONQUARRIES

315 Commercial Rd
VINEYARD NSW 2765
Phone: (02)6336 0259

ABN: 12 054 994 802

25 July 2019

Mr Shane Wilson
Oberon Council
137-139 Oberon Street
PO Box 84
OBERON NSW 2787

Dear Shane

Response to Oberon Quarries Truck Movements

Please find below Oberon Quarries response to the letter received by Oberon Council dated 28 June 2019 regarding Oberon Quarries trucks using roads outside of the approved route as identified within our Development Consent SSD_6333 – Condition 21(b).

Oberon Quarries has written a letter to all truck drivers advising them that they have been breaching our Development Consent SSD_6333. We advised that they are all prohibited to access non-approved roads within the Oberon shire.

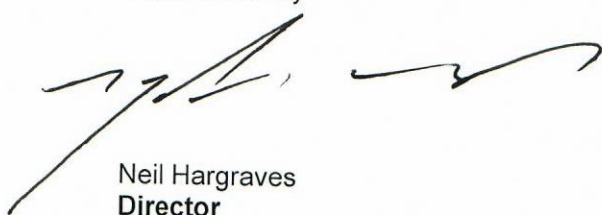
Oberon Quarries have also informed our customers that pick up material ex bin from the quarry that they must adhere to our Transport Management Plan, by not doing so they are breaching our Development Consent SSD_6333 and Oberon Quarries will have no other option but to refuse to load those particular trucks.

At the time Oberon Council's letter was received Oberon Quarries had a higher than normal amount of truck movements in Oberon due to having no fuel on site at Oberon Quarries. Therefore, our trucks were required to purchase fuel in Oberon. Although all drivers are aware of the roads they can access when needing to refuel in Oberon. I have attached a copy of the map that was given to all drivers informing them of the access and non-access roads.

Oberon Quarries would like thank Oberon Council for bringing this to our attention and hope to be able to rectify the situation immediately.

If you would like to discuss this matter further, please don't hesitate to contact me on (02)6336 0259 or 0408 424 869.

Yours sincerely



Neil Hargraves
Director