



Dixon Sand Pty Ltd

ABN: 80 002 278 686



# **Independent Environmental Audit**

of the

## **Old Northern Road Quarry**

for the period

**23 October 2019 to  
18 October 2022**

*Prepared by:*



**RWCorkery&co**

**November 2022**



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ABN: 80 002 278 686

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23 October 2019 to 18 October 2022

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**Prepared for:**

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# Executive Summary

This audit report has been prepared in accordance with *Schedule 5, Condition 13* of DA 250-09-01 for the Old Northern Road Quarry and generally in accordance with the requirements of the document *Independent Audit Post Approval Requirements 2020*.

## Compliance Status

The status of compliance against the conditional components of Development Approval 250-09-01, Environment Protection Licence 3916, and Water Access Licence 24341 was assessed as follows.

Approval	DA 250-09-01	EPL 3916	WAL 24341
Compliant	190	41	2
Non-Compliant	10	7	0
Not Triggered	17	6	8
<b>Total</b>	<b>217</b>	<b>54</b>	<b>10</b>

The non-compliances recorded were considered principally administrative or technical in nature and related to:

- noise exceedances relating to trialling new equipment;
- an uncontrolled discharge of water at the nominated discharge location;
- the number of incoming trucks were not adequately recorded;
- not finalising the implementation of the Public Positive Covenant for the biodiversity offset (the documentation relating to this covenant has been supplied to DPE with a response awaited); and
- notifications to DPE regarding incidents were not forwarded as required or within the nominated period.

## Management Plans

A high-level review of the various strategies, plans and programs required by DA 250-09-01 was undertaken. The plans were considered to meet the respective conditional requirements of DA 250-09-01 although a range of recommendations and suggested improvements have been made.

## Key Strengths

During the audit, a high degree of knowledge of environmental management matters was evident amongst all company's senior personnel and employee levels. This was reflected in the condition of the site which displayed excellent housekeeping, few discernible maintenance

issues, and no obvious ‘ad hoc’ management was evident. Whilst a range of recommended actions have been provided to assist in maintaining compliance and improving environmental management, there is an existing proactive approach to environmental management on site.

### **Recommended Actions**

A total of 12 compliance-based Recommendations and seven suggested Improvements have been provided for the Company’s consideration and action.

# 1. Introduction

## 1.1 Project Background

Dixon Sand Pty Ltd (“the Company”) operates the Old Northern Road Quarry (“ONR Quarry”) and an associated quarry, Haerses Road Quarry (“HR Quarry”), in Maroota, NSW, approximately 40km north of Parramatta. Component areas for the ONR Quarry are generally referenced by the relevant land parcels within the Quarry Site, namely Lots 29 and 196 DP 752025 and Lots 1 and 2 DP 547255.

Extraction commenced within Lots 29 and 196 in the early 1980s, with the Company undertaking extraction from 1992 to December 1998. Development consent for ongoing extraction within Lots 29 and 196 was granted by the NSW Land and Environment Court on 7 July 2000 with subsequent modification applications being lodged and providing for extraction within Lots 1 and 2. Current extraction operations are occurring within Lots 196, 1 and 2, with materials principally processed, stockpiled and dispatched within Lot 196.

Unprocessed sand has been transferred from the HR Quarry to the ONR Quarry for processing and subsequent dispatch throughout the audit period. Silts from the washing of materials extracted from both quarries are retained in engineered structures within former extraction areas on site which are, in turn, incorporated progressively to form the approved final landform. Whilst rehabilitation has commenced, final landform creation and rehabilitation largely remains ongoing.

## 1.2 Scope and Audit Objectives

The objectives and scope of this independent environmental audit are to fulfil the following audit requirements for the ONR Quarry.

This audit has been prepared for Dixon Sand Pty Ltd (“the Company”) in accordance with *Schedule 5, Condition 13* of DA 250-09-01 for the Old Northern Road Quarry which requires that:

*“By the end of November 2019, and every 3 years thereafter, unless the Secretary directs otherwise, the Applicant must commission, commence and pay the full cost of an Independent Environmental Audit of the development. This audit must:*

- a) be led and 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 and the CCC;*
- c) assess the environmental performance of the development and whether it is complying with the relevant requirements in this consent and any relevant EPL or necessary water licences for the development (including any assessment, strategy, plan or program required under these approvals);*
- d) review the adequacy of strategies, plans or programs required under the abovementioned approvals;*



- e) *recommend appropriate measures or actions to improve the environmental performance of the development, and/or any assessment, strategy, plan or program required under the abovementioned approvals; and*
- f) *be conducted and reported to the satisfaction of the Secretary.*

In addition to the requirements of DA 250-09-01, this audit has been prepared generally in accordance with the requirements of the *Independent Audit Post Approval Requirements 2020*.

The Department of Planning and Environment (DPE), other government agencies, and the Community Consultative Committee (CCC) were consulted during the development of the audit scope. Further details of this consultation is provided in Section 3.1.

This audit has been undertaken concurrently with the Company's HR Quarry. Details of the HR Quarry audit are provided in a separate report (Ref: 1022/02) with this audit report confined to operations associated with the ONR Quarry and associated Development Consent 250-09-01, Environment Protection Licence 3916 and Water Access Licence 24341.

## 1.3 Environmental Audit Team

The environmental audit team comprised the following members who have the necessary skills and qualifications required by DPE. A copy of DPE's endorsement of the audit team is provided as **Appendix 1**.

- Mr Rob Corkery – Lead Environmental Auditor  
Mr Rob Corkery, B.Sc(Hons), M.Appl.Sc, Certified Lead Environmental Auditor No. 5359, Principal Environmental Consultant with R.W. Corkery & Co Pty Limited (RWC). Mr Corkery has been a certified Lead Environmental Auditor for more than 20 years and has extensive and industry leading experience for assessing and auditing extractive industry and mining-related projects.
- Mr Jack Flanagan – Environmental Auditor  
Mr Jack Flanagan, B.Sc, M.EnvSc, Environmental Consultant with RWC. Mr Flanagan participated in the 2019 Independent Environmental Audit and has been involved in numerous extractive industry and mining projects in the meantime.

The conditions of Development Consent 250-09-01 DA do not specify a requirement for technical specialists, and none were requested through the agency consultation process.

## 1.4 Audit Period

The previous independent environmental audit for the ONR Quarry covered the three year period between 20 November 2016 and 22 October 2019. Therefore, the current audit addresses the three year period between 23 October 2019 and 18 October 2022 (the date of the audit site inspection for the ONR Quarry).

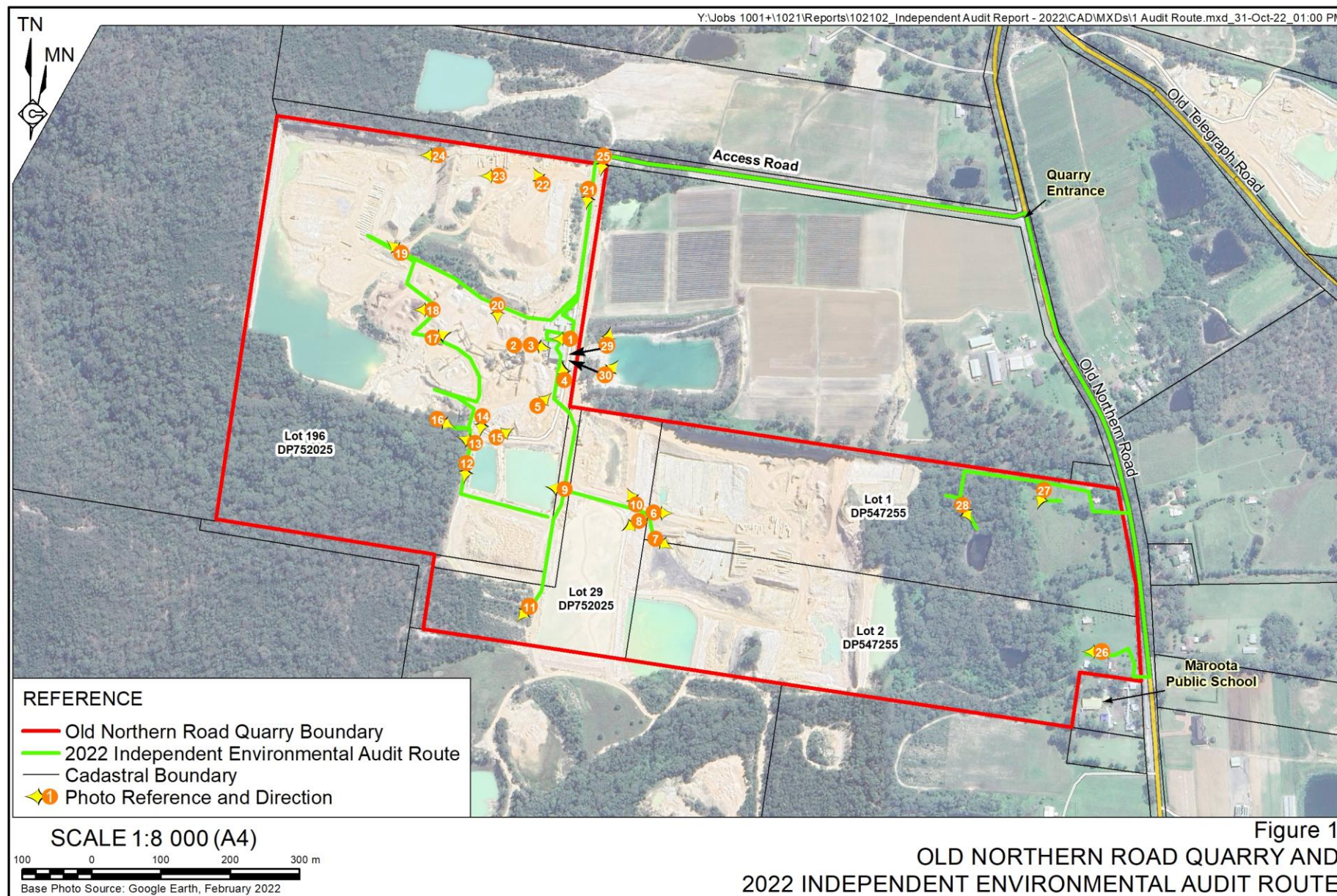
## 1.5 Limitations

The findings in this report are based on a site inspection on 18 October 2022, discussions with Company personnel and documentation provided prior to, during and following the inspection.

The assessment of compliance relying upon documentation has been limited to documentation that has been supplied or otherwise obtained from public sources. R.W. Corkery & Co. Pty Limited has made every endeavour to identify compliance based upon the available documentation assuming it to be authentic and that all copies of original documents are a true and accurate copy.

The site inspection was undertaken as a combination “drive over” / “walk-over” with observations made of the various features of the Quarry Site. A record of the traverse across the Quarry Site is presented in **Figure 1**. The main components of the Quarry were observed to gain an appreciation of activities undertaken on site and the Company’s compliance with the various conditional requirements. Not all areas of the Quarry Site were inspected nor were any subsurface investigations carried out or any samples collected for analysis during or following the inspections. On this basis, it cannot be discounted that issues could exist within areas of the site not inspected.





## 2. Audit Methodology

### 2.1 Introduction

The audit was undertaken in accordance with the requirements of *Schedule 5, Condition 13* of DA 250-09-01 and generally in accordance with the *Independent Audit Post Approval Requirements 2020*.

The following subsections outline the development of the audit plan and methodology used in undertaking the audit. The development of the audit scope and endorsement of the audit team are outlined in Sections 1.2 and 1.3.

Dixon Sand sought and received endorsement from DPE for RWC to undertake the independent environmental audit (see **Appendix 1**).

### 2.2 Audit Plan

The audit plan was compiled by RWC in consultation with Dixon Sand to outline all of the activities necessary for planning, organising and conducting the audit and involved the following.

**Planning:** RWC completed an initial review of the Company's website and public registers for copies of approvals, leases and licences and other relevant publicly available information. These were principally located on the Dixon Sand website. Discussions were then held with the Company's Environmental Officer to confirm the currency of documentation and the existence of any additional relevant approvals, leases and licences. It is noted that Dixon Sand has not sought or received any new or modified approvals since the 2019 audit. Editable versions of the various approval requirements as well as requirements specified in the approved management plans were provided by the Company, verified by RWC and utilised for the preparation of the compliance tables.

During the planning phase, relevant government agencies and the CCC were consulted to identify any specific issues that they believed the audit should address.

**Table 2.1** provides a list of the government agencies / stakeholders that were consulted by email on 13 September 2022 and requested to identify any issues they considered should be addressed during the audit. As required, further email and telephone follow up was undertaken. Each issue raised is summarised in **Table 2.1** with a cross reference to where it is addressed in this audit report.

As part of the audit preparation, the minutes from the CCC meetings held during the audit period were also reviewed. During the audit period, a total of seven CCC meetings were held (*Document HR55-2019*). A summary of any



relevant compliance, environmental or operational issues raised by the community or Council representatives during each CCC meeting are provided in **Table 2.2**. It is noted that the issues raised in **Table 2.2** relate to either or both the ONR Quarry or HR Quarry.

All matters requiring review/confirmation during the site inspection were assembled in a Site Inspection Check List.

**Table 2.1**  
**Consultation Outcomes**

Agency / Stakeholder	Issues Raised and Location Addressed in Audit Report
Department of Planning and Environment	<ul style="list-style-type: none"> <li>The Independent Environmental Audit for the development to be undertaken in accordance with Schedule 5, Condition 13 of the consent and the department's <i>Independent Audit Post Approval Requirements 2020 [Entire Document]</i>.</li> </ul>
NSW EPA	<ul style="list-style-type: none"> <li>Reference to two non-compliances for the licence Annual Return period 7 September 2019 – 6 September 2020 i.e. exceedance of shoulder period noise emission criteria and an unplanned water discharge over the weir of the main water channel. <i>[Table A4.2 Conditions L1.1, L4.1 and L4.2]</i></li> </ul>
Department of Planning and Environment – Water	<ul style="list-style-type: none"> <li>The audit to address compliance with: <ul style="list-style-type: none"> <li>Water Management Plans and related sub-plans, Site Water Balance, Erosion and Sediment Control Plan, Stormwater Management Plan, Surface Water and Groundwater Management Plan;</li> <li>Extraction Plans and related sub-plans, Water Management Plan and Subsidence Management Plan; (not relevant)</li> <li>Trigger action response plans for water source impacts reporting on annual and exceedance based reporting;</li> <li>Water supply availability is clearly defined for the project;</li> <li>Water take at the site via storage, diversion, interception or extraction;</li> <li>Water metering at the site;</li> <li>Water Access Licence/s used to account for water take by the project nominates the work where the water is being taken from; and <i>[Annual reporting clearly documents; 1) water take, use and water source impacts, 2) compares results with previous year's; 3) identifies exceedances and how there are managed]</i>.</li> </ul> </li> </ul>
Transport for NSW	<ul style="list-style-type: none"> <li>Any condition which TfNSW recommended and are contained in the development consent. <i>[Table A4.1 Conditions 3(21) to 3(23)]</i>.</li> </ul>
Hills Shire Council	<ul style="list-style-type: none"> <li>Ensure that all setback areas are marked with survey markers or similar and that works have not encroached into the setback areas <i>[Table A4.1 Conditions 2(2b) and 2(15)]</i>; and</li> <li>The maintenance of landscape screening around the site <i>[Figure 1]</i>.</li> </ul>
Community Consultative Committee – Independent Chairperson	<ul style="list-style-type: none"> <li>No requirements were nominated.</li> </ul>
Resources Regulator	<ul style="list-style-type: none"> <li>No requirements were received.</li> </ul>
Biodiversity and Conservation Division	<ul style="list-style-type: none"> <li>No requirements were received.</li> </ul>

**Table 2.2**  
**Issues Raised in CCC Meetings Held During the Audit Period**

CCC Meeting	Issues Raised and Location Addressed
20 November 2019	<ul style="list-style-type: none"> <li>Reduction of buffer area to 30m from Wisemans Ferry Road.</li> <li>Turning restrictions at new intersection works.</li> <li>Enquiry regarding sighting of Koalas.</li> <li>Truck speeding (not related to Dixon operations).</li> </ul>
24 February 2020	<ul style="list-style-type: none"> <li>No compliance, environmental or operator issues raised by community or Council representatives.</li> </ul>
13 May 2020	<ul style="list-style-type: none"> <li>Use of exhaust brakes has markedly increased (during roadworks).</li> </ul>
11 November 2020 (Annual IEA)	<ul style="list-style-type: none"> <li>Access via crown land to adjoining private land near Old Northern Road Quarry.</li> </ul>
12 May 2021	<ul style="list-style-type: none"> <li>No compliance, environmental or operator issues raised by community or Council representatives.</li> </ul>
10 November 2021	<ul style="list-style-type: none"> <li>Need for speed reduction near Cattai School</li> <li>Ongoing discussion regarding timing for school zone and follow up with R. Preston MP.</li> <li>No compliance or environmental issues raised by community or Council representatives.</li> </ul>
13 May 2022	<ul style="list-style-type: none"> <li>Ongoing discussion regarding timing for school zone and follow up with R. Preston MP.</li> <li>Opportunity for joint meetings with PF Formation CCC (relating to common matters).</li> <li>Diesel pump running through the night – complaint to Council (<i>confirmed by Environmental Officer on 17 May 2022 – not Old Northern Road Quarry.</i>)</li> </ul>

**Document Review:** Prior to the audit inspection, an initial review of the compliance tables was undertaken, and an initial Request for Information made to the Company for electronic copies of various documentation required to demonstrate compliance. Documentation review continued throughout the audit process with a range of documentation also reviewed during and following the audit site inspection.

**Audit Site Inspection:** The audit site inspection followed the opening meeting at the Company's site office (located at the ONR Quarry) with the following Dixon Sand Personnel.

Mr David Dixon – Managing Director

Mr Mark Dixon – Company Manager

Mr Jamie Baker – Business Development Manager

Ms Hunny Churcher – Environmental Officer

Mr Ben Grogan – Operations Manager, Maintenance

Mr Michael Munnoch – Operations Manager, Civil Works

All the above personnel except Mr David Dixon were present during the opening meeting.

The site inspection of the ONR Quarry involved a pedestrian inspection of the extraction and processing operational areas and vehicle travel and then a pedestrian inspection around the eastern side of the Quarry Site. The level of coverage provided a good overview of the Quarry Site whilst focusing on key areas required to assess compliance and gain an appreciation of the approach taken with respect to environmental management. A checklist assembled during the preparation for the audit was referred to regularly throughout the site inspection.

**Figure 1** displays the traverse followed during the site inspection together with locations of the photographs presented in **Appendix 5**.

Following the site inspection, a period of on-site document review and verification was undertaken. A closing meeting was subsequently held at the end of the site inspection and document review with those personnel that attended the opening meeting to provide an overview of the audit observations and approach to making recommendations and suggested improvements.

Post Audit Site Inspection: A further Request for Information was made to the Company for documentation arising from the site inspection.

Report Preparation: It was planned that a draft of the completed audit report would be supplied to the Company to review for factual correctness and with a final request for any audit evidence.

It was planned that the audit report would be then finalised following the receipt of the Company's review of the draft audit report.

The conduct of the audit and report preparation was undertaken generally in accordance with the audit plan.

## 2.3 Audit Evidence

The following audit evidence was used to undertake the assessments nominated in *Schedule 5, Condition 13* of DA 250-09-01 and the *Independent Audit Post Approval Requirements 2020*.

1. Issues Raised by Relevant Agencies and the CCC

The issues raised by the relevant government agencies and the CCC were tabulated and considered through the assessment of environmental performance, compliance and approved strategies, plans and programs. Cross references to where the raised issues have been addressed are provided within the tabulated summary (see **Tables 2.1** and **2.2**).

2. Environmental Performance

This was assessed through a combination of:

- a) a review of any notices, orders, penalty notices or prosecutions;
- b) a review of any received complaints;

- c) a review of any incidents; and
- d) a review of relevant environmental monitoring results and audit observations against relevant criteria and/or predicted impacts.

The results of this assessment are outlined in Section 3.2. Where appropriate, recommended actions were identified (see Section 4).

3. Status of Compliance with Development Consent, EPL 3916 and WAL 24341

Statutory compliance was assessed by methodically reviewing each condition and, based either upon site observations, documentation and/or advice provided by Company representatives, determining whether compliance has been achieved during the audit period. Where documents were supplied, a document number has been assigned and cross referenced. Where documents were simply sighted on site and copies were not retained, these are referenced 'as sighted'.

All conditions the Development Consent DA 250-09-01, Environment Protection Licence 3916 and Water Access Licence 24341 were tabulated and columns provided for compliance assessment, the basis for compliance, and comments / recommended actions (see **Appendix 4**). Where appropriate, recommended actions arising from the assessment of compliance are presented in Section 4.

4. Compliance with and Adequacy of Approved Strategies, Plans and Programs

All currently approved strategies, plans and programs were reviewed and, in particular, relevant commitments made within these plans. Compliance with these commitments was then assessed and the adequacy of these plans reviewed in light of the conditional requirement, site inspection and document review. Where appropriate, recommended actions arising from the review of these documents are presented in Section 4.

5. Status of implementation of the previous Independent Audit findings

The Company's response document submitted following the 2019 Independent Environmental Audit was reviewed and tabulated with an additional column to assess the status of implementation during this audit period (see Section 3.5).

6. High Level Review of the Environmental Management System

The Environmental Management System (EMS) for the ONR Quarry is not a certified EMS. Therefore, review of the EMS was undertaken through a combination of document review, site observations and discussions with Company personnel to understand the systems in place and how these are utilised to manage environmental aspects. A commentary on the ONR Quarry EMS is provided in Section 3.6.



## 2.4 Compliance Status Descriptors

The assessment of compliance has been recorded generally in accordance with the *Independent Audit Post Approval Requirements 2020*. Compliance has been recorded as follows.

Compliant	The auditor has collected sufficient verifiable evidence to demonstrate that all elements of the requirement have been complied with within the scope of the audit.
Non-compliant	The auditor has determined that one or more specific elements of the conditions or requirements have not been complied with within the scope of the audit.
Not triggered	A requirement has an activation or timing trigger that has not been met during the temporal scope of the audit being undertaken (may be a retrospective or future requirement), therefore an assessment of compliance is not relevant.

## 3. Audit Findings

### 3.1 Environmental Performance

#### 3.1.1 Summary of Agency Notices, Orders, Penalty Notices or Prosecutions

During the audit period, the Resources Regulator issued three Section 191 Improvement Notices, under the *Work Health and Safety Act 2011*, dated 8 April 2020, 27 May 2022, and 30 May 2022. These notices and the required actions were reported within each respective Annual Review / viewed on site. These notices were principally focused upon safety and workplace hazards and were not directly relevant to environmental considerations at the Quarry.

A further three notices were issued under section 23 of the *Work Health and Safety (Mines and Petroleum Sites) Act 2013* by the Resources Regulator during the audit period, dated 23 November 2021, 20 May 2022 and 30 May 2022. These notices were principally focused upon safety and workplace hazards and were not directly relevant to environmental considerations at the Quarry.

No other notices, orders, penalty notices or prosecutions have been reported by the Company or were identified during the audit.

#### 3.1.2 Complaints

A total of six complaints were received during the audit period (see **Table 3.1**). Of these, four related to trucks and one to noise.

**Table 3.1**  
**Summary of Complaints Received during Audit Period**

Page 1 of 2

Date	Nature of Complaint	Follow-up Action
15/10/19	Truck was alleged to be driven exceeding the speed limit.	The truck driver and haulage company were informed of the complaint. The truck driver denied speeding at the time specified in the complaint. The haulage company committed to the installation of a GPS tracking system to enable the identification of truck locations and speeds in the event of future complaints.
15/10/19	Separate complaint received from a second individual regarding the above incident.	As above.
02/09/20	Truck was alleged to have been driving in a dangerous manner and exceeding the speed limit.	The registration of the truck was checked against the Company's register and was not found to match any registered trucks associated with the Quarry. Similar checks were completed by nearby quarries (PF Formation and Hodgson) at the Company's request and the truck was not found to match any truck on those registers. The complainant was informed that appropriate action would be taken in the event that the truck was found to be associated with either the Quarry or the nearby quarries consulted regarding the complaint.

**Table 3.1 (Cont'd)**  
**Summary of Complaints Received during Audit Period**

Page 2 of 2

Date	Nature of Complaint	Follow-up Action
30/11/21	Truck was alleged to have been driving in a dangerous manner.	The Quarry Manager raised the complaint with the identified truck driver and reminded the driver of the 3-strike out policy outlined in the TMP. An official warning was issued to the truck driver and the weighbridge operator commenced a campaign to remind truck drivers of their responsibilities under the TMP.
13/05/22	Alleged that the Quarry was operating diesel pumps at night for a 6-month period resulting in noise impacts and sleep disruption.	The Environmental Officer investigated the allegation and consulted with Quarry personnel to confirm that no pumps were operated outside of the Quarry's approved operating hours.
03/06/22	Alleged that sediment from the Quarry was being tracked onto Old Northern Road.	The Company reviewed photographic evidence of the alleged sediment tracking and confirmed that the road section photographed was not the location of the Quarry Access Road. Evidence that the Quarry was mitigating sediment tracking using broom sweeping and watercart spraying was also provided.

Three of the complaints received during the audit period, including one truck driving in a dangerous manner, noise generated at night through the operation of diesel pumps, and the tracking of sediment onto Old Northern Road, were found not to be associated with the Quarry following investigation of the complaints.

Of the three remaining truck-related complaints, one complaint resulted in an official warning being issued under the Company's '3-strike out' policy in accordance with the TMP and the two other complaints resulted in the implementation of a GPS tracking system which will enable the implicated haulage contractor to verify future complaints.

### 3.1.3 Incidents

The following five incidents occurred at the Quarry during the audit period.

03/12/2019 – Noise exceedance recorded during attended noise monitoring during the shoulder period.

- Noise exceedance attributed to the simultaneous operation of a dozer and saw during the trialling of a diamond tip configured cutting attachment.
- Noise monitoring report received by Dixon Sand on 10/12/2019.
- Preliminary notification to the then Department of Planning, Infrastructure and Environment (DPIE)<sup>1</sup> made on 13/12/2019.
- Incident reported to the EPA on 17/12/2019.
- Full incident report provided to DPIE on 16/12/2019.
- Full incident report provided to the EPA on 17/12/2019.

<sup>1</sup> The Department of Planning, Infrastructure and Environment became the Department of Planning and Environment on 21 December 2021.

16/06/2020 – Uncontrolled discharge from the Main Dam at LDP01 identified during an EPA site inspection.

- Incident notified to DPIE and full incident report provided to DPIE on 30/06/2020.
- Full incident provided to the EPA on 30/06/2020.
- Supplementary information provided to the EPA on 8/07/2020.

30/11/2020 – Rolling 24-hour average PM10 exceedance recorded by monitoring system.

- Preliminary investigation concluded that the exceedance was not Quarry-related.
- Exceedance reported to the EPA on 30/11/2020.

25/04/2021 – Rolling 24-hour PM10 exceedance (not Quarry-related).

- Preliminary investigation concluded that the exceedance was not Quarry-related.
- Exceedance notified and reported to DPIE and the EPA on 26/04/2021.

18/06/2021 – Exceedance of daytime noise criteria (not a non-compliance).

- Noise exceedance attributed to the ripping of hard rock material.
- Noise monitoring report received by Dixon Sand on 25/06/2021.
- Incident notified to DPIE and the EPA on 28/06/2021.
- Supplementary information provided to the EPA on 7/07/2021.

### 3.1.4 Actual Verses Predicted Environmental Impacts

A summary of the approval criteria and/or predicted environmental outcomes for the principal environmental aspects relevant to the Quarry is provided in **Table 3.2** together with a discussion of performance / compliance during the audit period. Information for assessing performance has largely been drawn from the Annual Reviews, available monitoring data and, to a lesser extent, the observations during the site inspection.

**Table 3.2**  
**Summary of Actual Verses Predicted Environmental Impacts / Performance**

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Aspect	Approval Criteria / EIS Prediction	Performance During the Audit Period
Noise	All private residences Day: 44dB(A). Shoulder: 37dB(A). Any class room at Maroota Public school. Day: 45B(A). (DA Condition 3(3))	Once complaint received relating to noise outside of approved hours of operation. The Company confirmed that no operations had occurred outside of the approved hours.  Noise monitoring was undertaken during December 2019, June 2020, December 2020, June 2021, December 2021 and June 2022. Two monitoring events (December 2019 and June 2021) identified exceedances of the relevant noise criteria.
Air Quality	PM <sub>10</sub> 24hr (incremental) = 50ug/m <sup>3</sup> PM <sub>10</sub> Annual (cumulative) = 30ug/m <sup>3</sup> TSP Annual (cumulative) = 90ug/m <sup>3</sup> Dep Dust (cumulative) = 4g/m <sup>2</sup> /month Dep Dust (incremental) = 2g/m <sup>2</sup> /month (DA Condition 3(7))	No air quality-related complaints were received during the audit period.  Whilst the results of air quality monitoring during the audit period recorded a number of exceedances of the 24hr PM <sub>10</sub> criteria, in all instances this was attributed to either non-Quarry related activities or extraordinary weather events (e.g. dust storms, bushfires).

**Table 3.2 (Cont'd)**  
**Summary of Actual Verses Predicted Environmental Impacts / Performance**

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Aspect	Approval Criteria / EIS Prediction	Performance During the Audit Period
Traffic	Truck movement limits: 180 per day 40 between 5.45 am and 7.00 am (DA Condition 2(7))	Four truck-related complaints received during the audit period, one of which was found not to be associated with the Quarry. During the audit period, maximum daily truck movements remained within the approved limit with the following maximums. <ul style="list-style-type: none"> <li>2019/2020 maximum daily truck movements = 180</li> <li>2020/2021 maximum daily truck movements = 180</li> <li>2021/2022 maximum daily truck movements = 180</li> </ul> No trucks dispatched prior to 6:00am. Maximum recorded outbound truck movements before 7:00am as follows. <ul style="list-style-type: none"> <li>2019/2020 maximum outbound movements = 20</li> <li>2020/2021 maximum outbound movements = 20</li> <li>2021/2022 maximum outbound movements = 20</li> </ul> Therefore, compliance would be achieved with the 40 total truck movement requirement.
Surface Water	The DA does not specify criteria. Discharge water quality limits pH 4.5 to 6.5 TSS 50mg/L (EPL Condition L2.4) 2001 EIS predicted that there would be no significant impacts.	Uncontrolled discharge was identified at the Quarry on 16 June 2020 as a result of water transfer issues causing overtopping of the Main Dam. Controlled discharges occurred on two occasions during the audit period. Water monitoring results at LDP01 confirmed that water quality was within the relevant water quality criteria prior to discharge on all occasions.
Ground Water	Neither the DA nor EPL specify quality criteria. No extraction is to occur within 2m of the highest recorded wet weather groundwater level within the MTSGS buffer zone. (DA Condition 2(20)) The 2001 EIS predicted it would be unlikely that there would be extraction induced lowering of groundwater levels. Due to removal of humic material during quarrying, it was considered possible that a slight increase in groundwater pH may occur.	The extraction limit above the Maroota Tertiary Sands Groundwater Source (MTSGS) buffer zone has been calculated to be 204m AHD. Extraction remained above this level during the audit period. Extraction area depths are regularly checked using GPS. Procedures for extraction depth limit checks, including the engagement of surveyors once extraction approaches within 5m of the maximum extraction depth, are outlined in the SWMP. Surveys of extraction areas are undertaken annually to confirm extraction volumes. Groundwater quality monitoring indicates a relatively stable pH with no discernible increase (or decrease) in pH levels and no impacts upon the MTSGS have been reported.
Heritage	No heritage matters were identified or expected to be encountered.	The Environmental Officer confirms that no items suspected of being Aboriginal heritage have been encountered during the reporting period.
Biodiversity	A biodiversity offset strategy must be implemented. (DA Condition 3(25))  Progressive rehabilitation must be undertaken. (DA Condition 3(27))	The biodiversity offset strategy has been prepared, offset areas surveyed, plans submitted, and monitoring and management of the biodiversity offset areas has commenced. Proposed terms for a Public Positive Covenant were submitted by Dixon Sand to DPIE on 24 August 2019 and a response is awaited. Progressive rehabilitation has been undertaken at the quarry where practicable to reduce the area of exposed surfaces. Additionally, interim stabilisation measures including the establishment of cover crops on bunds have been implemented to control dust emission prior to final rehabilitation

## 3.2 Compliance Assessment

### 3.2.1 Status of Approvals and Licences

**Table 3.3** provides a summary of the status of relevant approvals and licences that have been granted for the ONR Quarry.

**Table 3.3**  
**ONR Quarry Approvals and Licences**

Approval / Licence / Permit	Issue Date	Expiry Date	Details / Comments
<b>Development Approvals</b>			
Development Consent 250-09-01	02/01/2003	Extraction 24/05/2042 Processing 14/02/2046	Development consent originally granted by the (then) Minister for Planning on 02 January 2003 and upheld by the Land and Environment Court, Decision 10206/2003 on 24 May 2004. The development consent has been subsequently modified on five occasions, with modification No. 5 approved 17 November 2017.
<b>Environment Protection Licence</b>			
Environment Protection Licence No. 3916	7/12/2000	Renewed annually	Issued by EPA. Current version date 1 March 2021. Reporting period 7 September to 6 September.
<b>Other Approvals &amp; Licences</b>			
Water Supply Works Approval 10WA109393	1 July 2011	29 March 2025	Approves bore construction within the Sydney Basin Central Groundwater Source and Maroota Tertiary Sands Groundwater Source within Lot 196. This is the nominated work for WAL 24341.
Water Access Licence 24341	Continuing		Provides an entitlement of 30ML from the Sydney Basin Central Groundwater Source. Works Approval 10WA109393 is the nominated work.

### 3.2.2 Compliance Performance

A tabulated compliance assessment was completed against the requirements of DA 250-09-01, EPL3916 and WAL 24341. The full compliance assessment is presented as **Appendix 4** with a summary of the compliance performance provided as follows.

#### DA 250-09-01

The status of compliance against the conditional components of DA 250-09-01 was assessed as follows.

<b>Compliant</b>	-	<b>190</b>
Non-Compliant	-	10
Not Triggered	-	17
<b>Total</b>		<b>217</b>

### EPL 3916

The status of compliance against the conditional components of EPL 3916 was assessed as follows.

<b>Compliant</b>	-	<b>41</b>
Non-Compliant	-	7
Not Triggered	-	6
<b>Total</b>		<b>54</b>

### WAL 24341

The status of compliance against the conditional components of WAL 24341 was assessed as follows.

<b>Compliant</b>	-	<b>2</b>
Non-Compliant	-	0
Not Triggered	-	8
<b>Total</b>		<b>10</b>

### 3.2.3 Summary of Non-Compliances

Non-compliances recorded against DA 250-09-01 and EPL3916 are presented in full within **Appendix 4** and summarised as follows in **Tables 3.4** and **3.5**. No non-compliances were recorded against WAL 24341.

**Table 3.4**  
**Summary of Non-compliances with DA 250-09-01**

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Cond. No.	Conditional Requirement	Compliance Status	Basis for Compliance	Comments and Recommended Actions												
2(2)(b)	in accordance with the conditions of this consent and the Development Layout Plan. <i>Note: The Development Layout Plan is shown in Appendix 1.</i>	Non-compliant	Observations.	The Quarry layout was observed to reflect the Development Layout Plan included as Appendix 1 of DA 250-09-01.  However, several non-compliances have been recorded against the conditions of this consent during the audit period and hence contributed to the non-compliance status for this condition. See Conditions 3(3), 3(21), 3(24)(c), 4(1)(a), 5(5)(a), 5(7), 5(7)(c), & 5(10).												
3(3)	<p>The Applicant must ensure that the noise generated by the development does not exceed the criteria in Table 2 at any residence on privately-owned land or at the Maroota Public School.</p> <p><b>Table 2: Noise Criteria Db(a)</b></p> <table><tr><th>Receiver</th><th>Averaging Period</th><th>Shoulder (6:00am to 7:00am)</th><th>Day (7:00am to 6:00pm)</th></tr><tr><td>Any residence on privately owned land</td><td>L<sub>Aeq</sub> (15 minutes)</td><td>37</td><td>44</td></tr><tr><td>Any classroom at Maroota Public School</td><td>L<sub>Aeq</sub> (15 minutes)</td><td>-</td><td>45</td></tr></table>	Receiver	Averaging Period	Shoulder (6:00am to 7:00am)	Day (7:00am to 6:00pm)	Any residence on privately owned land	L <sub>Aeq</sub> (15 minutes)	37	44	Any classroom at Maroota Public School	L <sub>Aeq</sub> (15 minutes)	-	45	Non-compliant	ONR60-2022 ONR61-2022 ONR62-2022 ONR63-2022 ONR64-2022	<p>Attended noise monitoring undertaken during the following periods during the audit period identified exceedances of the relevant noise criteria for the Quarry.</p> <ul style="list-style-type: none"><li>December 2019</li><li>June 2021</li></ul> <p>Attended noise monitoring undertaken in December 2019 identified noise criteria exceedances at receivers R3, R4 and R5 during the shoulder period associated with the trialling of a diamond tip configurated blade attachment on an excavator used for sandstone cutting. The incident was notified and a written report was provided to the (then) DPIE and the EPA on 16 and 17 December 2019 respectively.</p> <p>Attended noise modelling undertaken in June 2021 identified noise criteria exceedances at receivers OR1, OR3, R4 and R5 during the daytime period. This incident was notified to the (then) DPIE and the EPA on 28 June 2021. However, as the noise monitoring results indicated an exceedance of ≤2dB above the relevant criteria, these exceedances are not considered to represent a non-compliance in accordance with Section 11.1.3 of the NSW Industrial Noise Policy.</p> <p>See <b>Recommendation R8/22</b>.</p> <p>Attended noise monitoring undertaken during the following periods during the audit period indicated compliance with the relevant noise criteria for the Quarry.</p> <ul style="list-style-type: none"><li>June 2020</li><li>December 2020</li><li>December 2021</li><li>June 2022</li></ul>
Receiver	Averaging Period	Shoulder (6:00am to 7:00am)	Day (7:00am to 6:00pm)													
Any residence on privately owned land	L <sub>Aeq</sub> (15 minutes)	37	44													
Any classroom at Maroota Public School	L <sub>Aeq</sub> (15 minutes)	-	45													



**Table 3.4 (Cont'd)**  
**Summary of Non-compliances with DA 250-09-01**

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Cond. No.	Conditional Requirement	Compliance Status	Basis for Compliance	Comments and Recommended Actions
3(13)	The Applicant must comply with the discharge limits in any EPL, or with section 120 of the POEO Act.	<b>Non-compliant</b>	ONR60-2022 ONR61-2022 ONR62-2022 ONR63-2022 ONR64-2022 ONR04-2022 ONR54-2022	<p>Water sampling at LDP01 prior to controlled discharge events (February and March 2020) indicated compliance with the relevant EPL discharge criteria.</p> <p>Procedures for controlled discharge are outlined in Section 5.1 of the WMP.</p> <p>An uncontrolled discharge at location LDP01 was observed on 16 June 2020 during an inspection conducted by the NSW EPA. This uncontrolled discharge was the result of overtopping of the Main Dam weir following continued transfer of water from the Twin Ponds during a period where when pumps to the processing plant were not operational and the overflow pipe to Cons Hill was shut off. As monitoring was not undertaken prior to discharge to determine compliance with water quality parameters specified under EPL 3916, the uncontrolled discharge event was reported as an incident to the EPA on 30 June 2020 (see <b>Recommendation R11/22</b>).</p> <p>An uncontrolled discharge at location LDP01 also occurred during March 2022. This discharge event occurred during the exemption period nominated by the NSW EPA (3 March 2022 to 14 March 2022) during which discharge incidents were not required to be reported as a result of significant rainfall.</p>
3(21)	The Applicant must keep accurate records of all laden truck movements to and from the site (including time of arrival and dispatch) and publish a summary of records on its website every 6 months.	<b>Non-compliant</b>	Spot check of weighbridge dockets.	<p>Laden truck movement records are retained on site as weighbridge dockets and in an Excel spreadsheet. Weighbridge dockets do not record the time of arrival from laden trucks entering the site from the Haerses Road Quarry (see <b>Recommendation ONR RX3/22</b>)</p> <p>It is noted that laden truck despatch times from HR Quarry can be used to determine arrival times at ONR Quarry.</p> <p>Dixon Sand advised that they are currently implementing new weighbridge software to track truck movements and expect this software to be operational from December 2022.</p> <p>A summary is published on the Dixon Sand website.</p>
3(25)(c)	provide appropriate long term security for the Haerses Road Biodiversity Offset Area; and	<b>Non-compliant</b>	Advice from Environmental Officer.	<p>Proposed terms for a Public Positive Covenant were submitted by Dixon Sand to DPIE on 24 August 2019. However, confirmation of these terms is awaited and, once confirmed, Dixon Sand will seek to register the Haerses Road Biodiversity Offset Area under this arrangement.</p> <p>See <b>Recommendation ONR R9/19</b>.</p>

**Table 3.4 (Cont'd)**  
**Summary of Non-compliances with DA 250-09-01**

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Cond. No.	Conditional Requirement	Compliance Status	Basis for Compliance	Comments and Recommended Actions
4(1)(a)	an exceedance of any criteria in Schedule 3, the Applicant must notify the affected landowners in writing of the exceedance, and provide regular monitoring results, at least every 3 months, to each affected landowner until the development is again complying with the relevant criteria; and	<b>Non-compliant</b>	ONR60-2022 ONR61-2022 ONR62-2022 Advice from Environmental Officer	An exceedance of the relevant noise criteria under Schedule 3 was recorded during attended noise monitoring undertaken on 3 December 2019. The cause of this exceedance (trial use of a diamond tipped configurated blade during the shoulder period) was addressed immediately and no supplementary noise monitoring was required. Maroota Public School was notified of the attended noise monitoring results, however, other affected landowners (R3, R4 and R5) were not notified of the exceedance in writing within 7 days of obtaining the monitoring results. (See <b>Recommendation ONR R12/2022</b> ).
5(5)(a)	Within 3 months of the submission of an: incident report under condition 10 below;	<b>Non-compliant</b>	ONR82-2022 ONR83-2022 ONR84-2022 Advice from Environmental Officer.	<p>The following incidents were recorded during the audit period.</p> <ul style="list-style-type: none"> <li>• 3/12/2019 – Noise exceedance during shoulder period.</li> <li>• 16/06/2020 – Uncontrolled discharge at LDP01.</li> <li>• 30/11/2020 – Rolling 24-hour PM10 exceedance (not Quarry-related).</li> <li>• 25/04/2021 – Rolling 24-hour PM10 exceedance (not Quarry-related).</li> <li>• 18/06/2021 – Exceedance of daytime noise criteria (not a non-compliance).</li> </ul> <p>The Environmental Officer advises that the relevant strategies, plans and programs were reviewed following each incident. However, no record of notification to DPIE of these reviews within 3 months following submission of each incident report was provided. (See <b>Recommendation R10/2022</b>).</p> <p>Management strategies and plans were reviewed within the applicable timeframes following submission of the 2019/2020 and 2020/2021 Annual Reviews. The period for review following submission of the 2021/2022 Annual Review had not elapsed during the audit period.</p> <p>Management strategies and plans were reviewed within the applicable timeframes following submission of the 2019 IEA.</p> <p>No Modifications to the consent were made during the audit period.</p>

**Table 3.4 (Cont'd)**  
**Summary of Non-compliances with DA 250-09-01**

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Cond. No.	Conditional Requirement	Compliance Status	Basis for Compliance	Comments and Recommended Actions
5(7)	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 as soon as becoming aware of any exceedance:	<b>Non-compliant</b>	ONR60-2022 ONR61-2022 ONR62-2022 ONR63-2022 ONR64-2022	The following incidents represent Quarry-related exceedances of criteria and/or performance measures during the audit period. <ul style="list-style-type: none"> <li>3/12/2019 – Noise exceedance during shoulder period.</li> <li>16/06/2020 – Uncontrolled discharge at LDP01.</li> <li>18/06/2021 – Exceedance of daytime noise criteria (not a non-compliance under NSW Noise Policy for Industry guidelines).</li> </ul> <p>See <b>Recommendation ONR 10/2022</b></p> <p>The period between the identification of the uncontrolled discharge incident on 16 June 2020 and the notification and provision of an incident report to the (then) DPIE was 24 days. All other incidents were notified to DPIE within 14 days of the incident (or within 14 days of receiving monitoring results identifying an incident had occurred).</p>
5(7)(c)	Within 14 days of the exceedance occurring, submit a report to the Secretary describing these remediation options and any preferred remediation measures or other course of action; and	<b>Non-compliant</b>	ONR60-2022 ONR61-2022 ONR62-2022 ONR63-2022 ONR64-2022	The following incidents represent Quarry-related exceedances of criteria and/or performance measures during the audit period. <ul style="list-style-type: none"> <li>3/12/2019 – Noise exceedance during shoulder period.</li> <li>16/06/2020 – Uncontrolled discharge at LDP01.</li> <li>18/06/2021 – Exceedance of daytime noise criteria (not a non-compliance under NSW Noise Policy for Industry guidelines).</li> </ul> <p>See <b>Recommendation ONR 10/2022</b></p> <p>The period between the identification of the uncontrolled discharge incident on 16 June 2020 and the notification and provision of an incident report to the (then) DPIE was 24 days. All other incidents were notified to DPIE within 14 days of the incident (or within 14 days of receiving monitoring results identifying an incident had occurred).</p>

**Table 3.4 (Cont'd)**  
**Summary of Non-compliances with DA 250-09-01**

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Cond. No.	Conditional Requirement	Compliance Status	Basis for Compliance	Comments and Recommended Actions
5(10)	Within 7 days of the date of the incident, the Applicant must provide the Secretary and any relevant agencies with a detailed report on the incident, and such further reports as may be requested. This report must include the time and date of the incident, details of the incident, measures implemented to prevent re-occurrence and must identify any non-compliance with this consent.	<b>Non-compliant</b>	As above	<p>The following incidents occurred at the Quarry during the audit period.</p> <ul style="list-style-type: none"> <li>3/12/2019 – Noise exceedance during shoulder period. <ul style="list-style-type: none"> <li>Noise monitoring report received by Dixon Sand on 10/12/2019.</li> <li>Preliminary notification to DPIE on 13/12/2019.</li> <li>Reported to the EPA on 17/12/2019.</li> <li>Full incident report to DPIE on 16/12/2019.</li> <li>Full incident report to the EPA on 17/12/2019.</li> </ul> </li> <li>16/06/2020 – Uncontrolled discharge at LDP01. <ul style="list-style-type: none"> <li>Incident notified to DPIE and full incident report provided on 30/06/2020</li> <li>Full incident provided to the EPA on 30/06/2020.</li> <li>Supplementary information provided to the EPA on 8/07/2020.</li> </ul> </li> <li>30/11/2020 – Rolling 24-hour PM10 exceedance (not Quarry-related). <ul style="list-style-type: none"> <li>Exceedance reported to the EPA on 30/11/2020.</li> </ul> </li> <li>25/04/2021 – Rolling 24-hour PM10 exceedance (not Quarry-related). <ul style="list-style-type: none"> <li>Exceedance notified and reported to the EPA and DPIE on 26/04/2021.</li> </ul> </li> <li>18/06/2021 – Exceedance of daytime noise criteria (not a non-compliance). <ul style="list-style-type: none"> <li>Noise monitoring report received by Dixon Sand on 25/06/2021.</li> <li>Incident notified to DPIE and the EPA on 28/06/2021.</li> <li>Supplementary information provided to the EPA on 7/07/2021.</li> </ul> </li> </ul> <p>The period between the identification of the uncontrolled discharge incident on 16 June 2020 and the notification and provision of an incident report to the (then) DPIE was 24 days. See <b>Recommendation R10/2022</b>.</p>

**Table 3.5**  
**Summary of Non-compliances with EPL 3916**

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Cond. No.	Conditional Requirement	Compliance Status	Basis for Compliance	Comments and Recommended Actions
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.	Non-compliant	ONR60-2022 ONR61-2022 ONR62-2022	Uncontrolled discharge at location LDP01 was observed on 16 June 2020 during an inspection conducted by the NSW EPA. This uncontrolled discharge was the result of overtopping of the Main Dam weir following continued transfer of water from the Twin Ponds during a period where when pumps to the processing plant were not operational and the overflow pipe to Cons Hill was shut off.  As monitoring was not undertaken prior to discharge to determine compliance with water quality parameters specified under EPL 3916, the uncontrolled discharge event was reported as an incident to the EPA on 30 June 2020. The discharge event lasted for approximately 45 minutes and resulted in the discharge of <5 000L with unknown pollutant (pH and TSS) concentrations. (See <b>Recommendation R11/22</b> ).
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.	Non-compliant	ONR54-2022.	The concentration of pollutants in uncontrolled discharge recorded on 16 June 2020 was not quantified. The incident report provided to the EPA notes that water samples from Monitoring Point 1 have historically returned results within the concentration limits specified under L2.4.
L2.2	Where a pH quality limit is specified in the table, the specified percentage of samples must be within the specified ranges.	Non-compliant		

**Table 3.5 (Cont'd)**  
**Summary of Non-compliances with EPL 3916**

Page 2 of 3

Cond. No.	Conditional Requirement	Compliance Status	Basis for Compliance	Comments and Recommended Actions
L4.1	Noise from the premises must not exceed: a) An $L_{Aeq}(15 \text{ minute})$ noise emission criterion of 44dB(A) between 7.00am to 6.00pm Monday to Saturday; and, b) An $L_{Aeq}(15 \text{ minute})$ noise emission criterion of 37dB(A) between 6am and 7am Monday to Saturday; at any nearby residence not owned by the licensee.	Non-compliant	ONR60-2022 ONR61-2022 ONR62-2022 ONR63-2022 ONR64-2022	<p>Attended noise monitoring undertaken during the following periods during the audit period identified exceedances of the relevant noise criteria for the Quarry.</p> <ul style="list-style-type: none"> <li>December 2019</li> <li>June 2021</li> </ul> <p>Attended noise monitoring undertaken in December 2019 identified noise criteria exceedances at receivers R3, R4 and R5 during the shoulder period associated with the trialling of a diamond tip configured blade attachment on an excavator used for sandstone cutting. The incident was notified and a written report was provided to the (then) DPIE and the EPA on 16 and 17 December respectively.</p> <p>Attended noise modelling undertaken in June 2021 identified noise criteria exceedances at receivers OR1, OR3, R4 and R5 during the daytime period. This incident was notified to the (then) DPIE and the EPA on 28 June 2021. However, as the noise monitoring results indicated an exceedance of <math>\leq 2\text{dB}</math> above the relevant criteria, these exceedances are not considered to represent a non-compliance in accordance with Section 11.1.3 of the NSW Industrial Noise Policy.</p> <p>See <b>Recommendation R8/22</b>.</p>
L4.1 (Cont'd)				<p>Attended noise monitoring undertaken during the following periods during the audit period indicated compliance with the relevant noise criteria for the Quarry.</p> <ul style="list-style-type: none"> <li>June 2020</li> <li>December 2020</li> <li>December 2021</li> <li>June 2022</li> </ul>
L4.2	Noise from the premises must not exceed an $L_{Aeq}$ (1 hour) noise emission criterion of 45dB(A) at the most affected classroom of Maroota Public School.	Non-compliant	ONR60-2022 ONR61-2022 ONR62-2022 ONR63-2022 ONR64-2022	<p>Exceedance of the noise criteria at the most affected classroom of Maroota Public School occurred on two occasions during the audit period (see above).</p> <p>See <b>Recommendation R8/22</b>.</p>

Table 3.5 (Cont'd)  
Summary of Non-compliances with EPL 3916

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Cond. No.	Conditional Requirement	Compliance Status	Basis for Compliance	Comments and Recommended Actions																
M2.3	Water and/ or Land Monitoring Requirements <b>Point 1</b> <table><tr><th>Pollutant</th><th>Units of measure</th><th>Frequency</th><th>Sampling Method</th></tr><tr><td>pH</td><td>pH</td><td>Daily during any discharge</td><td>Grab sample</td></tr><tr><td>Total suspended solids</td><td>milligrams per litre</td><td>Daily during any discharge</td><td>Grab sample</td></tr><tr><td>Turbidity</td><td>nephelometric turbidity units</td><td>Daily during any discharge</td><td>Grab sample</td></tr></table>	Pollutant	Units of measure	Frequency	Sampling Method	pH	pH	Daily during any discharge	Grab sample	Total suspended solids	milligrams per litre	Daily during any discharge	Grab sample	Turbidity	nephelometric turbidity units	Daily during any discharge	Grab sample	Non-compliant	ONR60-2022 ONR61-2022 ONR62-2022 ONR63-2022 ONR64-2022 ONR54-2022	Results of water sampling at Point 1 undertaken for planned discharge events confirm the use of correct units, frequency and sampling method. Monitoring was not undertaken at the correct frequency (i.e. daily during discharge) during the uncontrolled discharge event which occurred on 16 June 2020. See <b>Recommendation R11/2022</b> .
Pollutant	Units of measure	Frequency	Sampling Method																	
pH	pH	Daily during any discharge	Grab sample																	
Total suspended solids	milligrams per litre	Daily during any discharge	Grab sample																	
Turbidity	nephelometric turbidity units	Daily during any discharge	Grab sample																	
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.	Non-compliant	ONR54-2022 ONR60-2022 ONR61-2022 ONR62-2022 ONR63-2022 ONR64-2022	The following incidents occurred at the Quarry during the audit period. <ul style="list-style-type: none"><li>3/12/2019 – Noise exceedance during shoulder period.<ul style="list-style-type: none"><li>Noise monitoring report received by Dixon Sand on 10/12/2019.</li><li>Preliminary notification to DPIE on 13/12/2019.</li><li>Reported to the EPA on 17/12/2019.</li><li>Full incident report to DPIE on 16/12/2019.</li><li>Full incident report to the EPA on 17/12/2019.</li></ul></li><li>16/06/2020 – Uncontrolled discharge at LDP01.<ul style="list-style-type: none"><li>Incident notified to DPIE and full incident report provided on 30/06/2020</li><li>Full incident provided to the EPA on 30/06/2020.</li><li>Supplementary information provided to EPA on 8/07/2020.</li></ul></li><li>30/11/2020 – Rolling 24-hour PM10 exceedance (not Quarry-related).<ul style="list-style-type: none"><li>Exceedance reported to the EPA on 30/11/2020.</li></ul></li><li>25/04/2021 – Rolling 24-hour PM10 exceedance (not Quarry-related).<ul style="list-style-type: none"><li>Exceedance notified and reported to the EPA and DPIE on 26/04/2021.</li></ul></li><li>18/06/2021 – Exceedance of daytime noise criteria (not a non-compliance).<ul style="list-style-type: none"><li>Noise monitoring report received by Dixon Sand on 25/06/2021.</li><li>Incident notified to DPIE and the EPA on 28/06/2021.</li><li>Supplementary information provided to the EPA on 7/07/2021.</li></ul></li></ul> The period between the identification of the uncontrolled discharge incident on 16 June 2020 and the provision of a written incident report to the EPA was 24 days. See <b>Recommendation R10/2022</b> .																



### 3.3 Compliance with and Adequacy of Strategies, Plans and Programs

#### 3.3.1 Status of Strategies, Plans and Programs

A list of the strategies, plans and programs relied upon to guide environmental practices and their status as at the audit date is provided in **Table 3.6**.

**Table 3.6**  
**Strategies, Plans and Programs Audited**

Strategy / Plan / Program	Status
Environmental Management Strategy (EMS)	Dated May 2018. Prepared by Umwelt. Requirement of DA 250-09-01 <i>Schedule 5 Condition 1</i> . Approved by (then) DPIE 31 May 2018. Current version dated April 2020 approved on 20 November 2020.
Noise Management Plan (NMP)	Appendix 6 of the Environmental Management Strategy. Dated April 2018. Prepared by Umwelt. Requirement of DA 250-09-01 <i>Schedule 3 Condition 6</i> . Approved by (then) DPIE 1 May 2018. Current version dated April 2020 approved on 22 October 2020.
Air Quality Management Plan (AQMP)	Appendix 7 of the Environmental Management Strategy. Dated April 2018. Prepared by Umwelt. Requirement of DA 250-09-01 <i>Schedule 3 Condition 9</i> . Approved by (then) DPIE 1 May 2018. Current version dated November 2020 approved on 16 November 2020.
Soil and Water Management Plan (SWMP)	Appendix 8 of the Environmental Management Strategy. Dated May 2018. Prepared by Umwelt. Requirement of DA 250-09-01 <i>Schedule 3 Condition 20</i> . Approved by (then) DPIE 31 May 2018. Current version dated November 2020 approved on 16 November 2020.
Traffic Management Plan (TMP)	Appendix 9 of the Environmental Management Strategy. Dated April 2018. Prepared by Umwelt. Requirement of DA 250-09-01 <i>Schedule 3 Condition 23</i> . Approved by (then) DPIE 1 May 2018. Current version dated November 2020 approved on 16 November 2020.
Biodiversity and Rehabilitation Management Plan (BRMP)	Appendix 10 of the Environmental Management Strategy. Dated April 2018. Prepared by Umwelt. Requirement of DA 250-09-01 <i>Schedule 3 Condition 29</i> . Approved by (then) DPIE 1 May 2018. Current version dated November 2020 approved on 16 November 2020.
Community Relations Plan (CRP)	Appendix 11 of the Environmental Management Strategy. Dated April 2018. Prepared by Umwelt. Requirement of DA 250-09-01 <i>Schedule 5 Condition 1(f)</i> . Approved by (then) DPIE 1 May 2018. Current version dated April 2020 approved on 16 November 2020.

#### 3.3.2 Review of Strategies, Plans and Programs

##### 3.3.2.1 Environmental Management Strategy

The Environmental Management Strategy addresses the requirements of DA 250-09-01 *Schedule 5 Condition 1* and is structured in an appropriate manner. The Environmental Management Strategy is supported by the other management plans required by DA 250-09-01



which are appended to the Environmental Management Strategy. In relation to matters considered appropriate for improvement, the following are noted (See **Improvements ONR I2/22** and **ONR I7/22**).

Section 4 and the Table of Contents for the TMP requires update to accurately reflect the locations of those appendices which form the Driver's Code of Conduct.

All publicly available documents prepared by the Company and placed on the Company's website should be formatted to provide interactive / navigable Table of Contents links to elements within the document (e.g. sections, figures, tables, appendices).

### **3.3.2.2 Noise Management Plan**

The Noise Management Plan (NMP) adequately addresses the requirements of DA 250-09-01 and EPL 3916 and includes a summary of the regulatory requirements, the existing noise environment, assessment criteria, mitigation measures, monitoring, reporting, responsibilities and review. Given the range of modifications that have occurred to DA 250-09-01, the inclusion of a summary of relevant noise management commitments included in the documentation supporting the modifications is very useful. The presentation of the management measures, both proactive and reactive, in a table format with timing, responsibility and performance indicator is commended.

In relation to implementation of the NMP, operations at the Quarry appear to be undertaken generally in accordance with the management measures, monitoring and reporting requirements outlined in the document. However, exceedances of the relevant noise criteria recorded during the audit period were found to be associated with new activities (e.g. trial of new plant attachments, ripping of hard material). A procedure for trialling new plant/equipment or activities with the potential to result in increased noise impacts should be incorporated into the NMP (see **Recommendation R8/2022**).

### **3.3.2.3 Air Quality Management Plan**

The Air Quality Management Plan (AQMP) adequately addresses the requirements of DA 250-09-01 and EPL 3916 and includes a summary of the regulatory requirements, baseline data, assessment criteria, mitigation measures, monitoring, reporting, responsibilities and review. The AQMP has generally been prepared to a high standard. Given the range of modifications that have occurred to DA 250-09-01, the inclusion of a summary of relevant air quality management commitments included in the documentation supporting the modifications is very useful. The presentation of the management measures, both proactive and reactive, in a table format with timing, responsibility and performance indicator is commended.

No non-conformances with the implementation of the AQMP were identified.

### **3.3.2.4 Soil and Water Management Plan**

The Soil and Water Management Plan (SWMP) adequately addresses the requirements of DA 250-09-01 Schedule 3 Condition 20 and is structured in an appropriate manner. The inclusion of a summary of relevant soil and water management commitments included in the documentation supporting the various modifications to the development consent is very useful.

In relation to matters considered appropriate for improvement, the following is noted. See **Improvements ONR I4/22** and **ONR R6/22**.

Section 3.2.3.6 – The requirement for monthly inspections of long-term erosion and sediment controls, in addition to inspections prior to and after forecasted rainfall events, is identified in the SWMP and the Monthly Site Condition Checklist. The basis for assessing the condition of diversion bunds and recommending maintenance should be clarified in SWMP and on the Monthly Site Condition Checklist to avoid uncertainty.

Permanent labels or identification tags should be affixed to all groundwater monitoring bore monuments to ensure that external identification of monitoring points is possible.

In relation to implementation of the SWMP, non-conformances were identified with respect to the following.

Section 3.2.3.6 - Areas were observed where runoff from the upper surface of the western wall of the Twin Dams had flowed to the west and over the steep slopes on the western side of the Twin Dams and adjoining current overburden stockpile area. In one area, considerable erosion had occurred with runoff potentially being able to flow beyond the western boundary of the Quarry (Photo 13) (see **Recommendation R4/22**).

Section 5.1.2.2 – Water quality monitoring was not undertaken at the frequency specified in EPL3916 (i.e. daily during discharge) during uncontrolled discharge event on 16 June 2020 (see **Recommendation R12/2022**).

### **3.3.2.5 Traffic Management Plan**

The Traffic Management Plan (TMP) adequately addresses the requirements of DA 250-09-01 Schedule 3 Condition 23 and is structured in an appropriate manner. The TMP is supported by a number of appendices including the Site Traffic Control Plan and Site Traffic Management Plan, Maroota Local Traffic Management Policy and Site Induction for Drivers.

Given that the Company does not operate or contract its own trucks, the measures as outlined within the TMP are generally considered adequate.

In relation to matters considered appropriate for improvement, the following is noted. See **Improvements ONR I2/22** and **ONR I5/22**.

Section 4 – The Driver's Code of Conduct requires update to improve clarity and provide for records of driver inductions. Additionally, Section 4 and the Table of Contents for the TMP incorrectly identify appendices which form part of the Driver's Code of Conduct.

In relation to implementation of the TMP, one non-conformance was identified with respect to the following.

The current practice to control the total number of trucks entering and leaving the Quarry between 5:45am and 7:00am is reliant upon preventing no more than 20 laden trucks to leave the weighbridge before 7:00am. This approach assumes only 20 trucks enter during this period. At present, uncertainty exists about the number of unladen trucks that enter the Quarry during this period. It is important that the new software system being implemented at the Quarry accounts for both unladen trucks entering and laden trucks leaving the Quarry during this period (see **Recommendation ONR R3/22**).

### **3.3.2.6 Biodiversity and Rehabilitation Management Plan**

The Biodiversity and Rehabilitation Management Plan (BRMP) adequately addresses the requirements of DA 250-09-01 Schedule 3 Condition 29 and is generally structured in an appropriate manner. It is noted that performance and completion criteria for threatened species are included in Section 6.5.6 whilst the remaining performance and completion criteria, including those for translocation, are outlined in Section 5.2. Broad performance criteria are also included in Appendix 5 of the approved Flora and Fauna Monitoring Program.

No non-conformances or improvements were identified with respect to the BRMP.

### **3.3.2.7 Community Relations Management Plan**

The Community Relations Management Plan (CRMP) adequately addresses the requirements of DA 250-09-01 Schedule 5 Condition 1(f) and is generally structured in an appropriate manner. The CRMP provides a useful summary of the strategy for and approach to communication with the community. The preparation of the plan in consultation with the Hills Shire Council, Maroota Public School, and the CCC provides a level of confidence that preferred communication methods and frequencies are being applied. The inclusion and use of attitudinal surveys is commended and provides an excellent opportunity to ensure that focus is being placed on relevant matters.

No non-conformances with the implementation of the CRMP were identified.

## **3.4 Implementation of Previous Audit Recommendations**

The Company prepared a response to 2019 Independent Environmental Audit findings which included proposed actions for each non-compliance identified in the audit. **Appendix 6** presents a copy of the 2019 audit response together with a review of the status of the proposed actions as at the time of the 2022 audit.

In summary, all recommendations and improvements proposed in the 2019 Independent Environmental Audit had been adopted and implemented at the Quarry at the time of this audit with the exception of the following.

- ONR R2/19 – The Company is still awaiting confirmation from DPE regarding the condition terms for the Positive Public Covenant and the instrument for providing long-term security of the Hearses Road Biodiversity Offset Area has therefore not been implemented.
- ONR R12/19 – Whilst six-monthly truck movement data is now available on the Dixon Sand website, six-monthly production data was not available on the website at the time of this audit.

### 3.5 Review of Environmental Management System

The Company does not have a formal or certified Environmental Management System. Notwithstanding, the Company's informal Environmental Management System is supported by the Environmental Management Strategy and associated management plans as well as a range of registers for complaints, engagement / consultation, incidents, TEOM alarms etc, inspection checklists / records, toolbox talks, additional forms and records.

Overall, the existing system appears to be supporting the necessary functions. Whilst existing personnel are familiar with the various components of the system, a simple summary checklist that details response requirements in the event of an incident is advisable to ensure that personnel are aware of all notification requirements and timelines (**Recommendations ONR R10/2022 and R11/2022**).

### 3.6 Approach to Environmental Management

During the audit, a high degree of knowledge of environmental management matters was evident amongst all employee levels. This was reflected in the condition of the site which displayed excellent housekeeping and no obvious 'ad hoc' management. Whilst a range of recommended actions have been provided to assist in maintaining compliance and improving environmental management, there is an existing proactive and collaborative approach to environmental management.

The Company's commitment to maintaining records is also commended with well organised documentation / records provided throughout the audit.

## 4. Recommended Actions

### 4.1 Introduction

The audit of the ONR Quarry has identified a number of recommended actions either in response to a non-compliance (“Recommendation”) or a potential for improvement in environmental performance (suggested “Improvement”). Recommendations have been presented with the prefix “ONR R” and are provided in Section 4.2 whilst suggested “Improvements” have been presented with the prefix “ONR I” and are provided in Section 4.3. Each of the recommended actions in the following subsections has been referred to throughout Section 3 and/or **Appendix 4**. A brief commentary is provided in italics beneath each recommended action to explain the background to the recommended action.

In light of the results of the environmental audit, a total of 12 compliance-based Recommendations and seven suggested Improvements are provided for the Company’s consideration and action.

### 4.2 Recommendations Arising From Non-compliances

**ONR R1/22** All employees undertaking pre-start checks for any equipment used on site should be requested to fully and accurately complete the Daily Plant Inspection List. Periodic checks should be undertaken to ensure all lists have been accurately completed.

*Three random examples of Daily Plant Inspection Lists were inspected (51428, 51653 and 51903) and each list was found to contain insufficient or clearly wrong information or insufficient information about which Quarry the equipment was located. Attention to detail on all documentation within the Quarry is fundamental to accurately recording information required regarding quarry operations.*

**ONR R2/22** The current Site Traffic Management Plan should be updated to reflect all requirements of truck drivers when within the Quarry Site and on the public road network travelling to and from the Quarry.

*The current Site Traffic Management Plan contains a range of requirements for truck drivers travelling to and from the Old Northern Road Quarry. Some of the requirements are outdated and no longer relevant This is an important document given it is to be cross-referenced in the Driver’s Code of Conduct (see Suggested Improvement ONR I2/22).*

- ONR R3/22** The new Clearway software program to be installed at the Old Northern Road Quarry in November/December 2022 should ensure that the vehicles entering the Quarry between 5:45am and 7:00am are accounted for in the total traffic counts for that period.

*The current practice to control the total number of trucks entering and leaving the Quarry between 5:45am and 7:00am is reliant upon preventing no more than 20 laden trucks to leave the weighbridge before 7am. This approach assumes only 20 trucks enter during this period. At present, uncertainty exists about the number of unladen trucks that enter the Quarry during this period. Hence, it is important that the new software system accounts for both unladen vehicles entering and laden trucks leaving the Quarry during this period. The new program would also record the number of laden trucks entering and leaving the Quarry at other times of day, i.e. in accordance with Condition 3(21).*

- ONR R4/22** The upper surface of the entire western wall of the Twin Ponds and the adjoining current overburden stockpile area roadway should be reshaped to prevent runoff flowing over the western slope into areas without any sediment control, All areas where erosion has occurred should be repaired.

*Areas were observed where runoff from the upper surface of the western wall of the Twin Dams had flowed to the west and over the steep slopes on the western side of the Twin Dams and adjoining current overburden stockpile area. In one area, considerable erosion had occurred with runoff potentially being able to flow beyond the western boundary of the Quarry (Photo 13).*

- ONR R5/22** All star posts installed around the perimeter of the approved extraction area should be painted in a bright colour to alert all Quarry personnel of their location on the boundary.

*The surveyed star posts observed on the eastern boundary of Stage 5 within Lot 1 DP 547255 are steel grey in colour and not readily detected, particularly by operators of earthmoving equipment (Photo 28).*

- ONR R6/22** All monuments above the groundwater piezometers on site and deposited dust gauges within the Quarry should be better identified with a painted / engraved / panel displaying the monitoring site reference number.

*The monument on Monitoring Well MW2 on the eastern side of Lot 1 DP 547255 was observed to be without any external identification.*

- ONR R7/22** The SDS register should be structured to record alphabetically the product type and manufacturer.

*Uncertainty existed on site during the audit site inspection regarding how various products were filed within the register. Arrangement of the register by both product type and manufacturer should assist any person to quickly locate the relevant SDS sheet, particularly in the event of an emergency.*



- ONR R8/22** The introduction of new and potentially noisy items of equipment, or undertaking new tasks where operating circumstances are different to those previously encountered, should be planned to occur in an isolated area of the Quarry or at a time when all other equipment is not operating.

*This modified procedure is recommended in response to the measured noise exceedances recorded in December 2019 and June 2021. Gaining an appreciation of the implications upon the total noise generated prior to the introduction of the new equipment or procedures would assist to identify if additional controls are needed or the use of certain equipment needs to be adjusted.*

- ONR R9/22** Continue to follow up with the DPE to ensure that the Positive Public Covenant to provide long-term security of the Haerses Road Biodiversity Offset Area is fully processed to enable it to be implemented.

*Dixon Sand has submitted all required information regarding the Positive Public Covenant to DPE and awaits the Department's response in order for this matter to be finalised.*

- ONR R10/22** A general *Incident Response Checklist* should be prepared for the Quarry to ensure that all relevant follow up actions, including review of strategies, plans and programs and notification of the review process to relevant authorities, are undertaken within appropriate timeframes in the event of an incident.

*No record of strategies, plans and programs having been reviewed within three months following the submission of incident reports were maintained during the audit period. Additionally, DPE was not notified in writing that a review of strategies, plans and programs had been undertaken within 3 months following the submission of an incident report. The period between the identification of an uncontrolled discharge event and notification of the incident to DPE and the EPA exceeded the specified 7-day notification period and 14-day reporting period.*

- ONR R11/22** The quality of any water discharging off site at the licenced discharge monitoring Point 1 should be established through the collection of a representative sample daily during the period of discharge (including uncontrolled discharge) and analysis at an accredited laboratory. Where access to Monitoring Point 1 (i.e. Main Dam weir, LDP01) is not possible during discharge due to safety concerns, a representative sample should be taken from the Main Dam daily during discharge.

*The reported uncontrolled discharge of water at Monitoring Point 1 on 16 June 2020 did not include any water quality data, which is a requirement of the EPA and EPL 3916.*

- ONR R12/22** All landowners affected by noise exceedances should be notified in the manner consistent with Condition 4(1)(a).

*Not all affected landowners were notified regarding the results of noise monitoring undertaken on 3 December 2019.*



## 4.3 Suggested Improvements

**ONR I1/22** Position Statements for all employees should include a list of work tasks that need to be undertaken and the safety and environmental responsibilities / requirements contained in the Development Consent for Quarry to be undertaken as they carry out their work tasks. A copy of the Position Statement should be signed by a company representative and the employee with a copy retained by both parties.

*Current Position Statements simply state the title of the position without documenting the required work tasks and the employee's responsibilities for safety and environmental matters that are specific to their position. Where appropriate, the environmental matters should be cross-referenced to the relevant Development Consent conditions, Management Plan(s) or site-based operational procedures. These matters need to be discussed during an induction with a copy of the entire statement (signed) held by both the Company and new employee.*

**ONR I2/22** All documentation referred to in the Driver's Code of Conduct should be reviewed and updated, where appropriate. These include:

- the Maroota Local Traffic Management Policy;
- the Site Induction for Drivers; and
- the Site Traffic Control Plan.

A copy of the Code should be signed by a representative of the Company and the nominated driver, with a copy of the Code and all attachments held by both the Company and the driver. Ideally, re-inductions should occur annually to ensure any adjustments to the Code are brought to the attention of all drivers. Section 4 of the TMP, and the Table of Contents of the TMP, should be updated to correctly identify appendices which form part of the Code.

*The current version of the Site Induction for Drivers is outdated and requires review and improvement. It is important that all drivers sign a copy of the Site Induction and are given a full set of all documents. The importance of annual re-inductions cannot be over-emphasised.*

**ONR I3/22** All documentation relied upon on site with respect to environmental and other matters should include relevant document control information including the computer file path, date created and review date.

*Most of the documentation sighted during the audit didn't include sufficient document control information to assist in locating the document on the Company's server, whether it is the current version and when it should be reviewed. The progressive introduction of document control will assist in improved management of documentation on site. It is important to clarify differences for documentation for either Old Northern Road Quarry or Haerses Road Quarry.*

- ONR I4/22** The basis for indicating compliance with individual requirements on the Monthly Site Condition Check List should be clarified and/or the requirements adjusted to match the information relied upon.

*The current Monthly Site Condition Check List should be reviewed to ensure it captures all key operational management commitments documented in the Quarry's Development Consent, Environment Protection Licence and Management Plans.*

*The current Monthly Site Condition Check List appears comprehensive – not withstanding this, it is preferable that all commitments for the Quarry are captured. It is noted that not all commitments would need to be assessment monthly.*

- ONR I5/22** The Company should introduce a Re-induction Program for all employees and relevant contractors on a regular basis to make each person aware of any changes to the requirements for environmental management practices on site and to re-enforce all other requirements.

*Currently there is no Re-induction Program on site with reliance placed upon relevant environmental practices being raised at Toolbox Meetings. Whilst this practice is commendable, a Re-induction Program would provide a more formal approach to ensure that all existing and recently required practices are fully understood by on-site personnel.*

- ONR I6/22** The Company should amend the current practices and documentation involved in the Job Safety Analysis (JSA) to incorporate environmental issues, i.e. to become Job Safety and Environmental Analysis (JSEA). This practice would ensure that for each new task/project undertaken on site that environmental issues are appropriately managed.

*A JSEA would ensure that all relevant environmental issues/documentation is addressed and consolidated in a structured manner before a new task or project is commenced. Issues to be addressed could include completion of a pre-clearance form, notifications to nearby neighbours, pre-operations photography, supply of relevant waste containers for solid/liquid wastes, placement of silt-stop fencing, adequate water for dust controls, are any noise mitigation measures needed or notifications to adjoining landowners?*

- ONR I7/22** All publicly available documents placed on the Company's website should provide direct links from the Table of Contents or other references in the reports to the relevant Figure, table, photos or appendices.

*At present, all documents placed on the Company's website do not include the requested direct links which makes reviewing documents/search for information more difficult.*

# Appendices

Appendix 1	Planning Secretary Audit Team Agreement
Appendix 2	Independent Audit Declaration Form
Appendix 3	Consultation with Government Agencies and Community Consultative Committee
Appendix 4	Compliance Review – Approvals
Appendix 5	Site Inspection Photographs
Appendix 6	Status of Implementation of 2019 Audit Response Actions
Appendix 7	Document Reference Table

# Appendix 1

## Planning Secretary Audit Team Agreement

(Total No. of pages including blank pages = 3)



Department of Planning and Environment

Hunny Churcher  
DIXON SAND P/L  
4610 OLD NORTHERN ROAD  
MAROOTA NSW 2756

08/09/2022

Dear Ms Churcher

**Old Northern Road Quarry (DA250-09-01)  
Independent Auditor Endorsement**

I refer to your request (DA250-09-01-PA-22) for the Planning Secretary to endorse the appointment of a suitably qualified and experienced team of experts to conduct an Independent Environmental Audit (IEA) of the Northern Road Quarry development (the **development**) DA250-09-01 as modified (the **consent**).

The Department of Planning and Environment (the **department**) has reviewed the nominations and information you have provided and is satisfied that the nominated experts are suitably qualified and experienced.

Consequently, as nominee of the Secretary I endorse the appointment of the following audit team from RW Corkery & Co Pty Ltd:

- Mr Rob Corkery as lead auditor; and
- Mr Jack Flanagan as assistant auditor

to undertake the Independent Audit for the development, in accordance with Schedule 5, Condition 13 of the consent and the department's *Independent Audit Post Approval Requirements (2020)* (IAPARs).

Please ensure this correspondence is appended to the Independent Audit Report.

The Independent Audit must be prepared, undertaken and finalised in accordance with the IAPARs. Failure to meet these requirements will require revision and resubmission.

The department reserves the right to request an alternate auditor or audit team for future audits.

Notwithstanding the agreement for the above listed audit team for this project, each respective project approval or consent requires a request for the agreement to the auditor or audit team be submitted to the department, for consideration of the Secretary. Each request is reviewed and depending on the complexity of future projects, the suitability of a proposed auditor or audit team will be considered.

Should you wish to discuss the matter further, please contact contact Maria Divis, Senior Compliance Officer, on 02 8275 1156 or [compliance@planning.nsw.gov.au](mailto:compliance@planning.nsw.gov.au).

Yours sincerely



Department of Planning and Environment

A handwritten signature in blue ink, appearing to read "Julia Pope".

Julia Pope  
Team Leader Compliance - Metro  
Compliance

As nominee of the Planning Secretary

# Appendix 2

## Independent Audit Declaration Form

(Total No. of pages including blank pages = 5)



#### Declaration of Independence - Auditor

Project Name	Old Northern Road Quarry / Haerses Road Quarry
Consent Number	DA250-09-01 / DA165-7-2005
Description of Project	Independent Environmental Audit for Nominated Development Consents
Project Address	4610 Old Northern Road Maroota NSW 2756
Proponent	Dixon Sand (Penrith) Pty Ltd
Date	1 September 2022

I declare that:

- i. I am not related to any proponent, owner, operator or other entity involved in the delivery of the project. Such a relationship includes that of employer/employee, a business partnership, sharing a common employer, a contractual arrangement outside an Independent Audit, or that of a spouse, partner, sibling, parent, or child;
- ii. I do not have any pecuniary interest in the project, proponent or related entities. Such an interest includes where there is a reasonable likelihood or expectation of financial gain (other than being reimbursed for performing the audit) or loss to the auditor, or their spouse, partner, sibling, parent, or child;
- iii. I have not provided services (not including independent reviews or auditing) to the project with the result that the audit work performed by themselves or their company, except as otherwise declared to the Department prior to the audit;
- iv. I am not an Environmental Representative for the project; and
- v. I will not accept any inducement, commission, gift or any other benefit from auditee organisations, their employees or any interested party, or knowingly allow colleagues to do so.

Notes:

- a) Under section 10.6 of the *Environmental Planning and Assessment Act 1979* a person must not include false or misleading information (or provide information for inclusion in) in a report of monitoring data or an audit report produced to the Minister in connection with an audit if the person knows that the information is false or misleading in a material respect. The proponent of an

approved project must not fail to include information in (or provide information for inclusion in) a report of monitoring data or an audit report produced to the Minister in connection with an audit if the person knows that the information is materially relevant to the monitoring or audit. The maximum penalty is, in the case of a corporation, \$1 million and for an individual, \$250,000; and  
b) The *Crimes Act 1900* contains other offences relating to false and misleading information: section 307B (giving false or misleading information – maximum penalty 2 years imprisonment or 200 penalty units, or both)

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Name of Proposed Auditor     Robert Corkery

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Signature



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Qualification     Principal Environmental Consultant / Lead Auditor

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Company     R.W. Corkery & Co. Pty Limited

#### Declaration of Independence - Auditor

Project Name	Old Northern Road Quarry / Haerses Road Quarry
Consent Number	DA250-09-01 / DA165-7-2005
Description of Project	Independent Environmental Audit for Nominated Development Consents
Project Address	4610 Old Northern Road Maroota NSW 2756
Proponent	Dixon Sand (Penrith) Pty Ltd
Date	6 September 2022

I declare that:

- i. I am not related to any proponent, owner, operator or other entity involved in the delivery of the project. Such a relationship includes that of employer/employee, a business partnership, sharing a common employer, a contractual arrangement outside an Independent Audit, or that of a spouse, partner, sibling, parent, or child;
- ii. I do not have any pecuniary interest in the project, proponent or related entities. Such an interest includes where there is a reasonable likelihood or expectation of financial gain (other than being reimbursed for performing the audit) or loss to the auditor, or their spouse, partner, sibling, parent, or child;
- iii. I have not provided services (not including independent reviews or auditing) to the project with the result that the audit work performed by themselves or their company, except as otherwise declared to the Department prior to the audit;
- iv. I am not an Environmental Representative for the project; and
- v. I will not accept any inducement, commission, gift or any other benefit from auditee organisations, their employees or any interested party, or knowingly allow colleagues to do so.

Notes:


- a) Under section 10.6 of the *Environmental Planning and Assessment Act 1979* a person must not include false or misleading information (or provide information for inclusion in) in a report of monitoring data or an audit report produced to the Minister in connection with an audit if the person knows that the information is false or misleading in a material respect. The proponent of an

- approved project must not fail to include information in (or provide information for inclusion in) a report of monitoring data or an audit report produced to the Minister in connection with an audit if the person knows that the information is materially relevant to the monitoring or audit. The maximum penalty is, in the case of a corporation, \$1 million and for an individual, \$250,000; and
- b) The *Crimes Act 1900* contains other offences relating to false and misleading information: section 307B (giving false or misleading information – maximum penalty 2 years imprisonment or 200 penalty units, or both)

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Name of Proposed Auditor      Jack Flanagan

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Signature      

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Qualification      Senior Environmental Consultant

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Company      R.W. Corkery & Co. Pty Limited

# Appendix 3

## Consultation with Government Agencies and Community Consultative Committee

(Total No. of pages including blank pages = 8)

Our ref: OUT22/15793

Rob Corkery  
RW Corkery & Co  
[rob@rwcorkery.com](mailto:rob@rwcorkery.com)

13 September 2022

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**Subject: Old Northern Road Quarry (DA250-09-01) Independent Environmental Audit**

Dear Mr Corkery,

I refer to your request seeking advice from the Department of Planning and Environment – Water (the department) on an upcoming audit for the above matter. It is understood this consultation is in accordance with conditions of approval for the project.

The department understands that the scope of the audit as outlined under the development consent and the reference guideline, “*Independent Audit Post Approval Requirements (2020)*” extends to at least the following:

- Identification of compliance requirements and documentation of any non-compliances.
- Assessment of the adequacy and implementation of management plans and sub plans.
- Assessment of compliance against relevant regulatory requirements and legislation.
- Assessment of compliance between actual and predicted impacts in the environmental assessment.
- Reporting requirements for management plans.
- Identification of strengths of the project in environmental management and opportunities for improvement.

The department requests that the audit address compliance with the following specific elements of the consent conditions and related legislative requirements in a manner consistent with the above audit scope:

- The requirement to prepare and implement management plans that relate to water sources and their dependent ecosystems and users, and associated impact management and mitigation. These plans may include:
  - Water Management Plans and related sub-plans eg. Site Water Balance, Erosion and Sediment Control Plan, Stormwater Management Plan, Surface and Groundwater Management Plan.
  - Extraction Plans and related sub-plans eg. Water Management Plan, Subsidence Management Plan.
- The requirement to prepare and implement trigger action response plans for water source impacts which set clearly defined limits and actions. This is to be reported on within annual and exceedance based reporting.
- Water supply availability is clearly defined for the project.

## Department of Planning and Environment

- Water take at the site via storage, diversion, interception or extraction is clearly documented and is authorised by a relevant Water Access Licence or exemption under the Water Management (General) Regulation 2018.
- Water metering at the site is in accordance with the NSW Non-Urban Metering Framework where relevant.
- Water Access Licence/s used to account for water take by the project nominates the work where the water is being taken from.
- Annual reporting clearly documents; 1) water take, use and water source impacts, 2) compares results with previous year's, and 3) identifies exceedances and how these are managed/mitigated.

Should you have any further queries in relation to this submission please do not hesitate to contact DPE Water Assessments at [water.assessments@dpie.nsw.gov.au](mailto:water.assessments@dpie.nsw.gov.au)

Yours sincerely,

A handwritten signature in blue ink, appearing to read "Z. Baker".

Timothy Baker  
Senior Project Officer  
Water Assessments  
**Department of Planning and Environment: Water**





DOC22/812778-1

Rob Corkery  
Lead Auditor  
RW Corkery & Co.  
Level 1, 12 Danagar Road  
PO BOX 239  
BROOKLYN NSW 2083

Email: [admin@rwcorkery.com](mailto:admin@rwcorkery.com)

12 October 2022

Dear Mr Corkery

### **Consultation for Independent Audit of Old Northern Road & Haerses Road Quarries**

Thank you for your letter dated 13 September 2022 regarding consultation with the Environment Protection Authority (EPA) on the independent environmental audits of Old Northern Road & Haerses Road Quarries. The EPA understands R.W. Corkery & Co. Pty Limited has been approved as the auditor to undertake audits in accordance with Schedule 5, Condition 13 of Development Consents DA 250-09-01 and DA 165-7-2005.

A review of EPA records shows the Old Northern Road Quarry has held Environment Protection Licence No. 3916 for the entire audit period of 22 October 2019 to date. During this period the licensee reported two non-compliances for the licence Annual Return period 7 September 2019 – 6 September 2020. These non-compliances were for an exceedance of shoulder period noise emission criteria at Receivers R3, 4 and 5 (Licence condition L4.1(b)) and an unplanned water discharge over the weir of the main water channel (Licence condition O1.1, O2.1 and M2.1).

The Haerses Road Quarry has held Environment Protection Licence No. 12513 for the entire audit period of 22 October 2019 to date. During this period the licensee has reported several non-compliances with licence condition O3.6 relating to exceedances in dust levels. However, it is acknowledged there have been external factors contributing to these exceedances e.g. bush fires and farming activities on nearby properties.

The Environment Protection Licences and regulatory histories of the sites can be viewed on the EPA's Public Register <https://www.epa.nsw.gov.au/licensing-and-regulation/public-registers/about-prpoeo>

If you have any questions in relation to this matter, please contact Larissa Borysko on (02) 9995 6843 or at [larissa.borysko@epa.nsw.gov.au](mailto:larissa.borysko@epa.nsw.gov.au).

Yours sincerely

A handwritten signature in black ink, appearing to read 'L Borysko'.

**Larissa Borysko**  
**A/Unit Head**  
**REGULATORY OPERATIONS**

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28 September 2022

Contact: Alison Kniha  
Telephone: 0407 088 372  
Our ref: D2022/114916

Rob Corkery  
Lead Auditor  
RW Corkery & Co  
PO Box 239  
Brooklyn NSW 2083  
By email: [rob@rwcorkery.com](mailto:rob@rwcorkery.com)

Dear Mr Corkery,

**Environmental Audit – Old Northern Rd Quarry (EPL 3916) and Haerses Rd Quarry (EPL 12513)**

Thank you for your letter dated 13 September 2022 requesting consultation with WaterNSW for the above audits.

WaterNSW does not own or manage any interests in these locations, and notes in your letter that you are actually 'seeking to identify and specific matters that the *NSW Environment Protection Authority* deem appropriate to be considered or assessed', rather than WaterNSW. As such, we do not have any comments or particular requirements.

If you have any questions regarding this letter, please contact me at [alison.kniha@waternsw.com.au](mailto:alison.kniha@waternsw.com.au).

Yours sincerely

A handwritten signature in black ink, appearing to be "Alison Kniha", written over a light blue horizontal line.

**ALISON KNIHA**  
**Catchment Protection Planning Manager**

(no subject)



Kristine McKenzie <[kmckenzie@thehills.nsw.gov.au](mailto:kmckenzie@thehills.nsw.gov.au)>

To Rob Corkery

You forwarded this message on 22/09/2022 8:12 PM.



Reply

Reply All

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Fri 16/09/2022 3:39 PM

Hi Rob,

Thank you for the opportunity to comment on your upcoming Independent Environmental Audit for Dixon Sand in regard to DA 250-09-01 and DA 165-7-2005.

The two key issues raised are:

1. Ensure that all setback areas are marked with survey markers or similar and that works have not encroached into the setback areas; and
2. The maintenance of landscape screening around the site.

I would request that these matters be reviewed as part of your audit.

Please don't hesitate to call or email me if you wish to discuss this matter further.

Regards, Kristine



**Kristine McKenzie**

**Principal Coordinator Development Assessment**

+61298430319 | [kmckenzie@thehills.nsw.gov.au](mailto:kmckenzie@thehills.nsw.gov.au)

Administration Centre, 3 Columbia Court Norwest NSW 2153

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## SYD10/00405/05 - TfNSW Response



Simon Turner <Simon.Turner2@transport.nsw.gov.au>

To ● Rob Corkery

 You forwarded this message on 6/10/2022 1:59 PM.



 Reply

 Reply All

 Forward



Thu 6/10/2022 1:08 PM

Good afternoon,

TfNSW is not in a position to comment on the requirements of an audit other than to ensure that the quarry is operating in accordance with any condition which TfNSW recommended and are contained in the development consent.

Please send any further correspondence to [Development.Sydney@transport.nsw.gov.au](mailto:Development.Sydney@transport.nsw.gov.au) for registration and action.

Regards,

**Simon Turner**

Land Use Planner

Planning and Programs

Greater Sydney

**Transport for NSW**

**M** 0476 559 807 **T** (02) 8265 6363 **E** [simon.turner2@transport.nsw.gov.au](mailto:simon.turner2@transport.nsw.gov.au)

[transport.nsw.gov.au](https://transport.nsw.gov.au)

27-31 Argyle Street  
Parramatta NSW 2750



**Transport  
for NSW**

Re: 1021/1022\_Consultation for Independent Audit of Old Northern Road & Haerses Road Quarries



Lisa Andrews <lisaandrews.ic@gmail.com>

To: Rob Corkery  
Cc: Hunny Churcher



Reply

Reply All

Forward



Wed 5/10/2022 1:32 PM

You forwarded this message on 6/10/2022 1:59 PM.

Hi Rob/Jack

Just letting you know that I did not receive any feedback/comments or matters from the CCC members for inclusion in the Independent Audit of the quarries.

Best regards  
Lisa

Lisa Andrews  
Independent Chairperson &  
Director  
Articulate Solutions Pty Ltd  
t: 0401 609 693  
e: [lisaandrews.ic@gmail.com](mailto:lisaandrews.ic@gmail.com)

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# Appendix 4

## Compliance Review – Approvals

(Total No. of pages including blank pages = 75)

Table A4-1     DA 250-09-01

Table A4-2     EPL 3916

Table A4-3     WAL 24341

Table A4-1  
Compliance Review – Development Consent DA 250-09-01

Page 1 of 50

Cond. No.	Conditional Requirement	Compliance Status	Basis for Compliance	Comments and Recommended Actions
<b>SCHEDULE 2 – ADMINISTRATIVE CONDITIONS</b>				
<b>OBLIGATION TO MINIMISE HARM TO THE ENVIRONMENT</b>				
1	In addition to meeting the specific performance measures and criteria established under this consent, the Applicant must implement all reasonable and feasible measures to prevent or minimise any harm to the environment that may result from the construction, operation, or rehabilitation of the development.	Compliant	Observations Reviewed management documentation This audit	Whilst this audit has recommended a range of improvements, the Company generally appears to be adequately implementing reasonable and feasible measures to prevent or minimise the potential for environmental harm.
<b>TERMS OF CONSENT</b>				
2.	The Applicant must carry out the development:			
2. (a)	generally in accordance with the EIS, SEE (Mod 1), SEE (Mod 2), EA (Mod 3), EA (Mod 4) and EA (Mod 5); and	Compliant	Observations ONR15-2019 ONR16-2019 ONR17-2019 ONR18-2019 ONR19-2019 ONR20-2019 ONR21-2019	The Quarry was found to be generally in accordance with the operations as outlined in the project descriptions and impact assessments contained within the various assessment documents.
2. (b)	in accordance with the conditions of this consent and the Development Layout Plan. <i>Note: The Development Layout Plan is shown in Appendix 1.</i>	<b>Non-compliant</b>	Observations.	The Quarry layout was observed to reflect the Development Layout Plan included as Appendix 1 of DA 250-09-01. All disturbance has been undertaken within approved areas with all buffer areas retained as proposed.  However, several non-compliances have been recorded against the conditions of this consent during the audit period and hence contributed to the non-compliance status for this condition. See Conditions 3(3), 3(21), 3(24)(c), 4(1)(a), 5(5)(a), 5(7), 5(7)(c), and 5(10).
3.	If there is any inconsistency between the documents in condition 2(a), 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.



Table A4-1 (Cont'd)  
Compliance Review – Development Consent DA 250-09-01

Page 2 of 50

Cond. No.	Conditional Requirement	Compliance Status	Basis for Compliance	Comments and Recommended Actions
<b>SCHEDULE 2 – ADMINISTRATIVE CONDITIONS (Cont'd)</b>				
<b>TERMS OF CONSENT (Cont'd)</b>				
4.	The Applicant must comply with any written requirement/s of the Secretary arising from the Department's assessment of:	Compliant	ONR68-2022	Following review of the 2019-2020 Annual Review the (then) DPIE required additional information (24/12/2020). The 2019-2020 Annual Review and an Addendum were submitted to the satisfaction of DPE (letter not dated).
4.(a)	any strategies, plans, programs, reviews, audits, reports or correspondence that are submitted in accordance with this consent (including any stages of these documents);			
4. (b)	any reviews, reports or audits undertaken or commissioned by the Department regarding compliance with this consent;			
4. (c)	and the implementation of any actions or measures contained in these documents.			
<b>LIMITS OF CONSENT</b>				
5.	The Applicant may:			
5. (a)	carry out quarrying operations on the site until 24 May 2042; and	Compliant	-	The approved timing for quarrying operations has not expired.
5. (b)	continue to receive and process extractive material from Haerses Road Sand Quarry, and dispatch quarry products from the site, until 14 February 2046.	Compliant	-	The approved timing for dispatch operations has not expired.
	<i>Notes: Under this consent, the Applicant is required to rehabilitate the site and carry out additional requirements and undertakings to the satisfaction of the Secretary. Consequently, this consent will continue to apply until the rehabilitation of the site and those requirements and undertakings have been carried out to the standard required by the applicable conditions.</i>	Not Triggered	-	The Quarry remains within the approved operational period.
6.	The combined production of quarry products from the site, including extractive material sourced from the Haerses Road Sand Quarry, must not exceed 495,000 tonnes per annum.	Compliant	ONR60-2022. ONR61-2022 ONR62-2022 ONR63-2022. ONR64-2022.	During the audit period production remained within the approved limit. <ul style="list-style-type: none"> <li>• 2019/2020 = 378 959t</li> <li>• 2020/2021 = 425 945.75t</li> <li>• 2021/2022 = 449 885.32t</li> </ul>

Table A4-1 (Cont'd)  
Compliance Review – Development Consent DA 250-09-01

Page 3 of 50

Cond. No.	Conditional Requirement	Compliance Status	Basis for Compliance	Comments and Recommended Actions
<b>SCHEDULE 2 – ADMINISTRATIVE CONDITIONS (Cont'd)</b>				
<b>LIMITS OF CONSENT (Cont'd)</b>				
7.	Truck movements at the site (i.e. one way trip, either arrival or dispatch), including truck movements between the site and the Haerses Road Sand Quarry, must not exceed:	Compliant	ONR60-2022 ONR63-2022 ONR64-2022	During the audit period maximum daily truck movements remained within the approved limit. <ul style="list-style-type: none"> <li>2016/2017 maximum daily truck movements = 180</li> <li>2017/2018 maximum daily truck movements = 180</li> <li>2018/2019 maximum daily truck movements = 180</li> </ul>
7. (a)	180 per day; and			
7. (b)	40 between 5.45 am and 7.00 am. <i>Note: Operating hours for arrival and dispatch of trucks are also controlled under condition 1 of Schedule 3.</i>	Compliant	ONR60-2022 ONR63-2022 ONR64-2022 Spot check of despatch records	No truck movements departing the Quarry recorded prior to 6:00am during the audit period. Annual Reviews record that the maximum number of laden trucks despatched prior to 7:00am did not exceed 20. Uncertainty existed regarding the number of unladen trucks entering the quarry between 5:45am and 7:00am. This will be resolved with the implementation of the new Clearway software program (see <b>Recommendation ONR R3/22</b> )
<b>STRUCTURAL ADEQUACY</b>				
8.	The Applicant must ensure that all new buildings and structures, and any alterations or additions to existing buildings and structures, are constructed in accordance with the relevant requirements of the BCA. <i>Notes:</i> <ul style="list-style-type: none"> <li>Under Part 4A of the EP&amp;A Act, the Applicant is required to obtain construction and occupation certificates for any proposed building works; and</li> <li>Part 8 of the EP&amp;A Regulation sets out the requirements for the certification of the development.</li> </ul>	Not Triggered	Advice from Environmental Officer	No new buildings or structures requiring approval were constructed during the audit period.

Table A4-1 (Cont'd)  
Compliance Review – Development Consent DA 250-09-01

Page 4 of 50

Cond. No.	Conditional Requirement	Compliance Status	Basis for Compliance	Comments and Recommended Actions
<b>SCHEDULE 2 – ADMINISTRATIVE CONDITIONS (Cont'd)</b>				
<b>DEMOLITION</b>				
9.	The Applicant must ensure that all demolition work is carried out in accordance with Australian Standard AS 2601-2001: The Demolition of Structures, or its latest version.	Not Triggered	Advice from Environmental Officer	No demolition work was undertaken during the audit period.
<b>PROTECTION OF PUBLIC INFRASTRUCTURE</b>				
10.	Unless the Applicant and the applicable authority agree otherwise the Applicant must:	Not Triggered	Advice from Environmental Officer. Observation.	No repairs to public infrastructure have been required during the audit period. No readily visible damage was observed during the audit inspection.
10. (a)	repair, or pay the full costs associated with repairing, any public infrastructure that is damaged by the development; and			
10. (b)	relocate, or pay the full costs associated with relocating, any public infrastructure that needs to be relocated as a result of the development. <i>Note: This condition does not apply to damage to roads caused as a result of general road usage or otherwise addressed by contributions required by condition 12 below.</i>	Not Triggered	Advice from Environmental Officer.	No relocation of public infrastructure has been required during the audit period.
<b>OPERATION OF PLANT AND EQUIPMENT</b>				
11.	The Applicant must ensure that all the plant and equipment used at the site, or to monitor the performance of the development is:	Compliant	Sighted plant daily inspection checklists completed by operators. Sighted vehicle and equipment maintenance records.	Plant and equipment used at the Quarry, including monitoring equipment, were considered to be compliant. Operators are required to complete a daily inspection checklist for plant. Maintenance records indicated regular maintenance of vehicles and equipment, as appropriate.
11. (a)	maintained in a proper and efficient condition; and			

Table A4-1 (Cont'd)  
Compliance Review – Development Consent DA 250-09-01

Page 5 of 50

Cond. No.	Conditional Requirement	Compliance Status	Basis for Compliance	Comments and Recommended Actions
<b>SCHEDULE 2 – ADMINISTRATIVE CONDITIONS (Cont'd)</b>				
<b>OPERATION OF PLANT AND EQUIPMENT (Cont'd)</b>				
11. (a) Cont'd			Advice from Environmental Officer and Operations Manager.	<p>The following notices were issued under section 23 of the <i>Work Health and Safety (Mines and Petroleum Sites) Act 2013</i> by the Resources Regulator during the audit period.</p> <ul style="list-style-type: none"> <li>NTCE0009343 (23/11/2021) – Risk assessment (entanglement) did not cover all plant; Not all controls were listed in the Mechanical Engineering Control Plan.</li> <li>NTCE0010280 (20/05/2022) – Written training records not maintained regarding competency of plant operators.</li> <li>NTCE0010314 (30/05/2022) – Concerns including documentation of inspections / observations, absence of a dedicated hazards reporting documentation system, documentation on design of waste dumps and large stockpiles, and absence of bunding/signage to prevent unauthorised access.</li> </ul> <p>All notices were resolved during the audit period.</p>
11. (b)	operated in a proper and efficient manner.	Compliant	<p>Observations.</p> <p>Advice from Environmental Officer and Operations Manager.</p> <p>ONR70-2022 ONR71-2022 ONR72-2022</p>	<p>No inappropriate operations were sighted during the audit inspection. No incidents were recorded during the audit period where plant or equipment were not operated in a proper and efficient manner.</p> <p>The following improvement notice were issued under section 191 of the <i>Work Health and Safety Act 2011</i> by the Resources Regulator during the audit period.</p> <ul style="list-style-type: none"> <li>NTCE0005168 (8/04/2020) – Review of Principal Mining Hazard Plan</li> <li>NTCE0010313 (27/05/2022) – Ensure availability of a PMHP for ground and strata failure; Prepare and implement a dedicated mine plan.</li> <li>NTCE0010330 (30/05/2022) – Ensure notification of incidents to the Resources Regulator.</li> </ul>

Table A4-1 (Cont'd)  
Compliance Review – Development Consent DA 250-09-01

Page 6 of 50

Cond. No.	Conditional Requirement	Compliance Status	Basis for Compliance	Comments and Recommended Actions
<b>SCHEDULE 2 – ADMINISTRATIVE CONDITIONS (Cont'd)</b>				
<b>OPERATION OF PLANT AND EQUIPMENT (Cont'd)</b>				
11. (b) Cont'd				<p>All notices were resolved during the audit period.</p> <p>The following incidents were reported to the Resources Regulator during the audit period.</p> <ul style="list-style-type: none"> <li>IncNot0041095 (15/11/2021) – FEL rolled during loading operations.</li> <li>IncNot0042164 (13/05/2022) – excavator damage to under slung earth wire (power).</li> <li>IncNot0042306 (3/03/2022) – collapse of retaining wall following heavy rain.</li> </ul> <p>These incidents reports do not suggest a culture of improper or inefficient operation during the audit period.</p>
<b>SECTION 94 CONTRIBUTION</b>				
12.	The Applicant must pay Council an annual financial contribution toward the maintenance of local roads used for haulage of quarry products. The contribution must be determined in accordance with The Hills Shire Council Contributions Plan No. 6 Extractive Industries, or any subsequent relevant contributions plan adopted by Council.	Compliant	Remittance records for the audit period sighted.	Records indicate that financial contributions have been made in accordance with the contribution agreement for the Quarry during the audit period.
<b>PRODUCTION DATA</b>				
13.	The Applicant must:			
13. (a)	from the commencement of quarrying operations provide calendar year annual quarry production data to DRG using the standard form for that purpose; and	Compliant	ONR73-2022 ONR74-2022 ONR75-2022	DRG Mineral Returns submitted during the audit period (2018-2019, 2019-2020 & 2020-2021).
13. (b)	include a copy of this data in the Annual Review.	Compliant	ONR60-2022 ONR61-2022 ONR62-2022 ONR63-2022 ONR64-2022	Production data included in Annual Reviews relevant to the audit period.

Table A4-1 (Cont'd)  
Compliance Review – Development Consent DA 250-09-01

Page 7 of 50

Cond. No.	Conditional Requirement	Compliance Status	Basis for Compliance	Comments and Recommended Actions
<b>SCHEDULE 2 – ADMINISTRATIVE CONDITIONS (Cont'd)</b>				
<b>COMPLIANCE</b>				
14.	The Applicant must ensure that all employees, contractors and sub-contractors are aware of, and comply with, the conditions of this consent relevant to their respective activities.	Compliant	Induction records sighted. Advice from Environmental Officer.	Regular toolbox talks are used to highlight key conditions relevant to site personnel. All employees and contractors are required to undergo inductions which include the identification of consent conditions relevant to their positions (see <b>Improvement ONR I1/22</b> ).
<b>LIMITS OF EXTRACTION</b>				
<b>Buffer Zones</b>				
15.	The Applicant must maintain the fenced buffer zones between the approved limits of extraction and nearby land uses or sensitive environmental areas. The boundary of the buffer zones must be located:	Compliant	Observations. Advice from Managing Director.	Buffer zones and extraction areas are clearly fenced and fences are well maintained. Perimeter walks are conducted every six months to inspect the condition of fencing.
15. (a)	not less than 250m from the boundary of Maroota Public School (Lot 78 DP 752025);	Compliant	Observations. ONR25-2019.	Fences sighted during the site inspection were consistent with extraction areas and buffer areas as depicted in the Environmental Monitoring Program. Survey markers were evident along the boundaries of extraction and buffer areas although they were steel grey in colour and no easily identified ( <b>Photo 28</b> ). See <b>Recommendation ONR R5/22</b> . Survey plans were prepared by McKinlay Morgan and Associated Pty Ltd.
15. (b)	not less than 10m from the boundary of Lot 117 DP 752025 along the boundary of Lot 1 DP 547255;	Compliant		
15. (c)	not less than 50m from the existing house on Lot 1 DP 547255;	Compliant		
15. (d)	not less than 50m from the <i>Kunzea rupestris</i> plant species on Lot 29 DP 752025;	Compliant		
15. (e)	not less than 10m from the western boundary of Lot 196 DP 752025; and	Compliant		
15. (f)	not less than 100m from the mapped extent of the MTSGS, with the exception of the area in the north of Lot 1 DP 547255 shown in blue edging in the figure in Appendix 2.  <i>Note: This condition does not establish a new requirement to undertake these actions following the approval of Modification 5. Rather, it continues the previous requirement to undertake these actions.</i>	Compliant		

Table A4-1 (Cont'd)  
Compliance Review – Development Consent DA 250-09-01

Page 8 of 50

Cond. No.	Conditional Requirement	Compliance Status	Basis for Compliance	Comments and Recommended Actions
<b>SCHEDULE 2 – ADMINISTRATIVE CONDITIONS (Cont'd)</b>				
<b>LIMITS OF EXTRACTION (Cont'd)</b>				
<b>Identification of Areal Extraction Limits</b>				
16.	The Applicant must:			
16. (a)	engage a registered surveyor to mark out the boundaries of the approved areal limits of extraction, incorporating the buffer zones identified in condition 15 above, prior to the commencement of quarrying operations on Lots 1 and 2 DP 547255;	Compliant	Observations. ONR25-2019.	Survey markers delineating extraction and buffer areas were sighted during the site inspection See <b>Recommendation ONR R5/22</b> . A survey was undertaken and survey plan prepared by McKinlay Morgan and Associates Pty Ltd.
16. (b)	submit a survey plan of the buffer zones and setback boundary to the Secretary for approval at least one month prior to the commencement of quarrying operations on Lots 1 and 2 DP 547255;	Compliant	ONR25-2019.	Correspondence between Dixon Sand and DPE dated 30 September 2015 confirms the submission of a survey plan showing buffer zones and setback boundaries.
16. (c)	establish and maintain fencing along the surveyed buffer zone boundaries to prevent vehicles and unauthorized persons entering the area(s);	Compliant	Observations. Advice from Managing Director. Sighted monthly checklist.	Well maintained fencing along surveyed buffer zone boundaries sighted during site inspection. Perimeter inspections of Quarry fencing are undertaken every six months. Fence inspections are included on the site condition checklist completed on a monthly basis by the Environmental Officer or delegate.
16. (d)	ensure that the boundaries of the approved limits of extraction are clearly marked at all times in a permanent manner that allows operating staff and inspecting officers to clearly identify those limits; and	Compliant	Observations ONR04-2022	Permanent markers including timber stakes and steel fence pickets clearly delineate the approved limits of extraction See <b>Recommendation ONR R5/22</b> . A surveyed marker is present on the northern wall of the Lot 1 and 2 pit to provide a basis for visual extraction depth estimates. Procedures for progressive surveys of depth, including the engagement of surveyors once extraction reaches within 5m of the approved maximum extraction depth, are outlined in the SWMP.



Table A4-1 (Cont'd)  
Compliance Review – Development Consent DA 250-09-01

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Cond. No.	Conditional Requirement	Compliance Status	Basis for Compliance	Comments and Recommended Actions
<b>SCHEDULE 2 – ADMINISTRATIVE CONDITIONS (Cont'd)</b>				
<b>LIMITS OF EXTRACTION (Cont'd)</b>				
<b>Identification of Areal Extraction Limits (Cont'd)</b>				
16. (e)	not commence work or operations on Lots 1 and 2, DP 547255 until the approved boundary has been fenced.	Compliant	ONR48-2019 Advice from Environmental Officer.	Fencing was completed on prior to 2016. Work / operations commenced in Lots 1 and 2 in February 2006.
<b>Maximum Extraction Depth</b>				
17.	Extraction below a depth of 15.24m below original ground level is restricted to Lot 196 DP 752025 within the hatched area shown in the figure in Appendix 2 and to a depth not greater than 127.5m AHD.	Compliant	ONR04-2022 Advice from Managing Director.	The extraction limits shown on the Maximum Extraction Depth Map are in accordance with the specified extraction depth restrictions in Lot 196 DP 752025, Lot 29 DP 752025, and Lots 1 and 2 DP 752025.  The Maximum Extraction Depth Map limits maximum extraction depths to within 2m of the highest recorded wet weather ground level for the MTSGS buffer zone.  Extraction area depths are regularly checked using GPS. Procedures for extraction depth limit checks, including the engagement of surveyors once extraction approaches within 5m of the maximum extraction depth, are outlined in the SWMP. Surveys of extraction areas are undertaken annually to confirm extraction volumes.
18.	Extraction on Lot 29 DP 752025 is limited to a depth not greater than 15.24m below original ground level.	Compliant		
19.	Extraction on Lots 1 and 2 DP 547255, with the exception of the MTSGS buffer zone, is limited to a depth not greater than 170m AHD in the east, gradually reducing to 153m AHD in the west, and as shown conceptually in the figure in Appendix 4.	Compliant		
20.	The Applicant must ensure that no extraction occurs with 2m of the highest recorded wet weather groundwater level within the MTSGS buffer zone.	Compliant		
21.	The Applicant must:	Compliant	ONR04-2022	Table 1 of Appendix 3 of the SWMP for the Quarry identifies 202mAHD as the highest recorded wet weather groundwater level within the MTSGS buffer, based on records from monitoring bore MW2 since July 2003.
21. (a)	establish the highest recorded wet weather groundwater level within the MTSGS buffer zone based on all available (and at least 12 months) site specific groundwater monitoring data;			
21. (b)	engage a suitably qualified and experienced expert to establish the maximum depths to which extraction can be undertaken within the MTSGS buffer zone to comply with condition 20 above; and	Compliant	ONR04-2022.	Appendix 3 of the SWMP for the Quarry, prepared by Golder Associates, identifies a maximum extraction depth of 204mAHD within the MTSGS buffer zone.

Table A4-1 (Cont'd)  
Compliance Review – Development Consent DA 250-09-01

Page 10 of 50

Cond. No.	Conditional Requirement	Compliance Status	Basis for Compliance	Comments and Recommended Actions
<b>SCHEDULE 2 – ADMINISTRATIVE CONDITIONS (Cont'd)</b>				
<b>LIMITS OF EXTRACTION (Cont'd)</b>				
<b>Maximum Extraction Depth (Cont'd)</b>				
21. (c)	submit a Maximum Extraction Depth Map (contour map or similar) for the development, which demonstrates compliance with conditions 17 to 20 above (inclusive), to the Secretary for approval within 3 months of the approval of Modification 5.	Compliant	ONR04-2022. ONR38-2019.	The Maximum Extraction Depth Map, prepared by Golder Associates and submitted to DPE on 16 February 2018, demonstrates compliance with Conditions 17 to 20.  The Maximum Extraction Depth Map was approved by DPE on 3 July 2018.
22.	The Applicant must comply with the extraction depths specified in the Maximum Extraction Depth Map to the satisfaction of the Secretary.	Compliant	ONR04-2022. Advice from Managing Director.	The Maximum Extraction Depth Map and associated extraction limits are included as Appendix 3 in the SWMP.  Monthly visual inspections, regular GPS checks, and survey procedures have been implemented to ensure compliance with specified depth restrictions.
23.	Within 3 months of the completion of the Independent Environmental Audit (see condition 13 of Schedule5), the Applicant must review and update the Maximum Extraction Depth Map for the development to the satisfaction of the Secretary.	Compliant	-	Revised Maximum Extraction Depth Map, included as Appendix 3 of the SWMP, was submitted on 30 March 2020 (within 3 weeks following the 2019 IEA which was submitted in January 2020).

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Cond. No.	Conditional Requirement	Compliance Status	Basis for Compliance	Comments and Recommended Actions															
SCHEDULE 3 – SPECIFIC ENVIRONMENTAL CONDITIONS																			
NOISE																			
Hours of Operation																			
1.	<p>The Applicant must comply with the operating hours set out in Table 1.</p> <p>Table 1: Operating hours</p> <table><tr><th>Activity</th><th>Permissible Hours</th></tr><tr><td rowspan="2">Quarrying operations (excluding truck arrival, loading and dispatch)</td><td>7:00am to 6:00pm Monday to Saturday</td></tr><tr><td>At no time on Saturdays or public holidays</td></tr><tr><td rowspan="2">Truck arrival (unladen)</td><td>5:45am to 6:00pm Monday to Saturday</td></tr><tr><td>At no time on Sundays or public holidays</td></tr><tr><td rowspan="2">Truck loading Truck dispatch Truck arrival (laden)</td><td>6:00am to 6:00pm Monday to Saturday</td></tr><tr><td>At no time on Sundays or public holidays</td></tr><tr><td>Bund construction or rehabilitation works within 250m of Maroota Public School</td><td>7:00am to 6:00pm Monday to Friday during school holiday periods unless otherwise approved in writing by the EPA</td></tr><tr><td>Maintenance</td><td>May be conducted at any time, provided that these activities are not audible at any privately-owned residence</td></tr></table>	Activity	Permissible Hours	Quarrying operations (excluding truck arrival, loading and dispatch)	7:00am to 6:00pm Monday to Saturday	At no time on Saturdays or public holidays	Truck arrival (unladen)	5:45am to 6:00pm Monday to Saturday	At no time on Sundays or public holidays	Truck loading Truck dispatch Truck arrival (laden)	6:00am to 6:00pm Monday to Saturday	At no time on Sundays or public holidays	Bund construction or rehabilitation works within 250m of Maroota Public School	7:00am to 6:00pm Monday to Friday during school holiday periods unless otherwise approved in writing by the EPA	Maintenance	May be conducted at any time, provided that these activities are not audible at any privately-owned residence	Compliant.	Spot check despatch records.  ONR60-2022 ONR61-2022 ONR62-2022 ONR63-2022 ONR64-2022	<p>A spot check of despatch records undertaken during the site inspection indicated that the Quarry was operating within approved hours.</p> <p>The response to a noise-related complaint received on 13 May 2022 indicates that the Quarry was operating within approved hours.</p>
Activity	Permissible Hours																		
Quarrying operations (excluding truck arrival, loading and dispatch)	7:00am to 6:00pm Monday to Saturday																		
	At no time on Saturdays or public holidays																		
Truck arrival (unladen)	5:45am to 6:00pm Monday to Saturday																		
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Truck loading Truck dispatch Truck arrival (laden)	6:00am to 6:00pm Monday to Saturday																		
	At no time on Sundays or public holidays																		
Bund construction or rehabilitation works within 250m of Maroota Public School	7:00am to 6:00pm Monday to Friday during school holiday periods unless otherwise approved in writing by the EPA																		
Maintenance	May be conducted at any time, provided that these activities are not audible at any privately-owned residence																		
2.	The following activities may be carried out outside the hours specified in condition 1 above:																		
2. (a)	delivery or dispatch of materials as requested by the NSW Police Force or other public authorities; and	Not Triggered	Advice from Environmental Officer	No despatch of materials outside of approved operational hours was requested by a public authority during the audit period.															
2. (b)	emergency work to avoid the loss of lives, property or to prevent environmental harm.  In such circumstances, the Applicant must notify the Secretary and affected residents prior to undertaking the activities, or as soon as is practical thereafter.	Not Triggered	Advice from Environmental Officer	No emergency work was required outside of approved operational hours during the audit period.															

Table A4-1 (Cont'd)  
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Cond. No.	Conditional Requirement	Compliance Status	Basis for Compliance	Comments and Recommended Actions												
SCHEDULE 3 – SPECIFIC ENVIRONMENTAL CONDITIONS (Cont'd)																
NOISE (Cont'd)																
Hours of Operation (Cont'd)																
3.	<p>The Applicant must ensure that the noise generated by the development does not exceed the criteria in Table 2 at any residence on privately-owned land or at the Maroota Public School.</p> <p>Table 2: Noise Criteria Db(a)</p> <table><tr><th>Receiver</th><th>Averaging Period</th><th>Shoulder (6:00am to 7:00am)</th><th>Day (7:00am to 6:00pm)</th></tr><tr><td>Any residence on privately owned land</td><td>L<sub>Aeq</sub> (15 minutes)</td><td>37</td><td>44</td></tr><tr><td>Any classroom at Maroota Public School</td><td>L<sub>Aeq</sub> (15 minutes)</td><td>-</td><td>45</td></tr></table>	Receiver	Averaging Period	Shoulder (6:00am to 7:00am)	Day (7:00am to 6:00pm)	Any residence on privately owned land	L <sub>Aeq</sub> (15 minutes)	37	44	Any classroom at Maroota Public School	L <sub>Aeq</sub> (15 minutes)	-	45	Non-compliant	<p>ONR60-2022</p> <p>ONR61-2022</p> <p>ONR62-2022</p> <p>ONR63-2022</p> <p>ONR64-2022</p>	<p>Attended noise monitoring undertaken during the following periods during the audit period identified exceedances of the relevant noise criteria for the Quarry.</p> <ul style="list-style-type: none"><li>December 2019</li><li>June 2021</li></ul> <p>Attended noise monitoring undertaken in December 2019 identified noise criteria exceedances at receivers R3, R4 and R5 during the shoulder period associated with the trialling of a diamond tip configured blade attachment on an excavator used for sandstone cutting. The incident was notified and a written report was provided to the (then) DPIE and the EPA on 16 and 17 December 2019 respectively.</p> <p>Attended noise modelling undertaken in June 2021 identified noise criteria exceedances at receivers OR1, OR3, R4 and R5 during the daytime period. This incident was notified to the (then) DPIE and the EPA on 28 June 2021. However, as the noise monitoring results indicated an exceedance of ≤2dB above the relevant criteria, these exceedances are not considered to represent a non-compliance in accordance with Section 11.1.3 of the NSW Industrial Noise Policy.</p> <p>See <b>Recommendation R8/22</b>.</p> <p>Attended noise monitoring undertaken during the following periods during the audit period indicated compliance with the relevant noise criteria for the Quarry.</p> <ul style="list-style-type: none"><li>June 2020</li><li>December 2020</li><li>December 2021</li><li>June 2022</li></ul>
Receiver	Averaging Period	Shoulder (6:00am to 7:00am)	Day (7:00am to 6:00pm)													
Any residence on privately owned land	L <sub>Aeq</sub> (15 minutes)	37	44													
Any classroom at Maroota Public School	L <sub>Aeq</sub> (15 minutes)	-	45													

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Cond. No.	Conditional Requirement	Compliance Status	Basis for Compliance	Comments and Recommended Actions
<b>SCHEDULE 3 – SPECIFIC ENVIRONMENTAL CONDITIONS (Cont'd)</b>				
<b>NOISE (Cont'd)</b>				
<b>Hours of Operation (Cont'd)</b>				
3. Cont'd	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 6 sets out the meteorological conditions under which these criteria apply and the requirements for evaluating compliance with these criteria.	Compliant	ONR60-2022 ONR61-2022 ONR62-2022 ONR63-2022 ONR64-2022	Noise monitoring reports included in Annual reviews during the audit period indicate that noise measurements were undertaken in accordance with the <i>Noise Policy for Industry</i> (EPA, 2017).
	However, the noise criteria in Table 2 do not apply if the Applicant has an agreement with the relevant landowner to exceed the noise criteria, and the Applicant has advised the Department in writing of the terms of this agreement.  <i>Note: Should an agreement with a landowner be terminated for any reason, the Applicant must comply with the noise criteria in Table 2.</i>	Compliant	ONR05-2022. ONR39-2019.	A noise agreement exists between Dixon Sand and Mr G & Mrs M Accurso. This agreement was provided to DPE along with documents in support of Modification 2 and is referenced in the Modification 2 conditions of consent.
<b>Operating Conditions</b>				
4.	The Applicant must:			
4. (a)	construct all bunds on the eastern, south-eastern and northern sides of Lots 1 and 2 DP 547255 to at least 5m above the existing ground level;	Compliant	Observations.	Bunds on the eastern, south-eastern and northern sides of Lots 1 and 2 have been constructed to at least 5m above existing ground level.
4. (b)	not use the bulldozer concurrently with any other plant on strips 4, 5 and 6 of Lots 1 and 2 DP 547255 for any operations at quarry depths between existing ground level and six metres below the existing ground level;	Not Triggered	-	Extraction has not yet commenced on strips 4, 5 or 6.
4. (c)	only use the bulldozer for clearing, topsoil stripping and bund construction on Lots 1 and 2 DP 547255 in calm wind conditions;	Compliant	ONR05-2022. Site Condition Checklist records sighted. Advice from Operations Manager.	The requirement to only use the bulldozer for clearing, topsoil stripping and bund construction on Lots 1 and 2 DP 547255 in calm wind conditions is included in the NMP. This condition is also specified in the daily/monthly site condition checklist.

Table A4-1 (Cont'd)  
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Cond. No.	Conditional Requirement	Compliance Status	Basis for Compliance	Comments and Recommended Actions
<b>SCHEDULE 3 – SPECIFIC ENVIRONMENTAL CONDITIONS (Cont'd)</b>				
<b>NOISE (Cont'd)</b>				
<b>Operating Conditions (Cont'd)</b>				
4. (d)	implement best practice management to minimise the construction, operational and road transportation noise of the development;	Compliant	ONR05-2022.	Best practice noise management and monitoring measures are outlined in the Noise Management Plan for the Quarry.
4. (e)	minimise the noise impacts of the development during meteorological conditions when the noise criteria in this consent do not apply (see Appendix 6);	Compliant	ONR05-2022 Advice from Environmental Officer.	Requirements to minimise noise impacts under various weather conditions are described in the NMP. Quarry operations are managed in accordance with daily weather forecast results and weather observations made by Quarry personnel.
4. (f)	engage an independent person/s to conduct noise monitoring at sensitive residential locations and Maroota Public School every six months, or as otherwise agreed by the Secretary, to determine whether the development is complying with the relevant conditions of this consent; and	Compliant	ONR60-2022 ONR61-2022 ONR62-2022 ONR63-2022 ONR64-2022	Noise monitoring conducted every six months during the reporting period (December 2019, June 2020, December 2020, June 2021, December 2021 and June 2022) by Hutchinson Weller Pty Ltd, a contractor commissioned by Dixon Sand to undertake environmental work for the Quarry.
4. (g)	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. <i>Note: Required frequency of noise monitoring may be reduced if approved by the Secretary.</i> <i>Refer to the figure in Appendix 2 for the location of the bunds and strips.</i>	Compliant	ONR60-2022 ONR61-2022 ONR62-2022 ONR63-2022 ONR64-2022	Noise monitoring data is assessed upon receipt of monitoring reports and regularly in Annual Reviews during the audit period.  Quarry operations are managed to ensure compliance with relevant noise criteria, including consideration of site weather conditions and their impacts on noise emissions.
5.	In the event that noise from the site exceeds the noise criteria in Table 2, or a negotiated agreement with landowner is terminated for any reason, then the Applicant must actively manage noise in excess of the criteria at the affected receptor. The Applicant must:	Compliant	ONR60-2022 ONR61-2022 ONR62-2022 ONR63-2022 ONR64-2022	Attended noise monitoring undertaken during the audit period indicate that noise impacts associated with the Quarry exceeded relevant noise criteria during monitoring events undertaken in December 2019 and June 2021.  One negotiated agreement with a landowner (R1) exists for the Quarry. This agreement has not been terminated.

Table A4-1 (Cont'd)  
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Cond. No.	Conditional Requirement	Compliance Status	Basis for Compliance	Comments and Recommended Actions
SCHEDULE 3 – SPECIFIC ENVIRONMENTAL CONDITIONS (Cont'd)				
NOISE (Cont'd)				
Operating Conditions (Cont'd)				
5. (a)	implement a reactive management system where site operations are modified in adverse weather conditions identified through meteorological monitoring;	Compliant	ONR05-2022 ONR60-2022 ONR61-2022 ONR62-2022 ONR63-2022 ONR64-2022	Reactive management measures and associated triggers are outlined in Table 5.2 of the Noise Management Plan for the Quarry.  Details of responses to recorded noise exceedances, including active management of noisy plant at the Quarry, restriction of operating hours for noisy plant, and the restriction of simultaneous plant operation where necessary, are provided in Annual Reviews.
5. (b)	implement additional controls or treatments on individual sources on the site, or otherwise modify operations to ensure compliance; or	Compliant		
5. (c)	provide other forms of benefit or amelioration of noise impacts agreed between the Applicant and the affected party, as providing acceptable compensation for noise levels experienced; and	Compliant		
5. (d)	identify long term strategies to eliminate noise levels that exceed the noise criteria in Table 2.	Compliant		
Noise Management Plan (NMP)				
6.	The Applicant must prepare a Noise Management Plan for the development to the satisfaction of the Secretary. This plan must:	Compliant	ONR05-2022. ONR76-2022.	The NMP for the Quarry was approved by the (then) DPIE on 22 October 2020.
6. (a)	be prepared in consultation with the EPA;	Compliant	ONR05-2022.	Consultation with the EPA is presented as Appendix 2 and responded to in Section 2.4 of the NMP.
6. (b)	be submitted to the Secretary for approval within 3 months of the approval of Modification 5, unless otherwise agreed by the Secretary;	Compliant	ONR05-2022. ONR37-2019.	The submission period for the NMP was extended from 17 February 2018 to 17 March 2018 following approval from DPE on 10 January 2018. The plan was submitted for approval on 19 March 2018 and resubmitted on 23 April 2018.
6. (c)	describe the measures to be implemented to ensure: <ul style="list-style-type: none"><li>compliance with the noise criteria and operating conditions of this consent;</li><li>best practice management is being employed; and</li><li>the noise impacts of the development are minimised during meteorological conditions under which the noise criteria in this consent do not apply (see Appendix 6);</li></ul>	Compliant	ONR05-2022	Section 5 of the NMP describes the pro-active and reactive noise management measures necessary to ensure compliance with noise and operating conditions.  Section 9 outlines responsibilities for implementing management and monitoring measures, including: <ul style="list-style-type: none"><li>reviewing meteorological forecasts on a daily basis;</li><li>evaluating and reporting noise monitoring results; and</li><li>undertaking regular reviews of the plan.</li></ul>

Table A4-1 (Cont'd)  
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Cond. No.	Conditional Requirement	Compliance Status	Basis for Compliance	Comments and Recommended Actions																				
SCHEDULE 3 – SPECIFIC ENVIRONMENTAL CONDITIONS (Cont'd)																								
NOISE (Cont'd)																								
Noise Management Plan (NMP) (Cont'd)																								
6. (d)	describe the proposed noise management system;	Compliant	ONR05-2022	The NMP represents the noise management system for the Quarry.																				
6. (e)	include a noise monitoring program that: <ul style="list-style-type: none"><li>is capable of evaluating the performance of the development;</li><li>includes a protocol for determining any exceedances of the relevant conditions of this consent;</li><li>includes a specific program to be implemented in the event that noise from the site exceeds the noise criteria in Table 2, including, as a minimum, the measures described in condition 5 above; and</li><li>effectively supports the noise management system.</li></ul>	Compliant	ONR05-2022	Section 6 of the Noise Management Plan presents a suitable noise monitoring program. Section 5.2 presents reactive management measures which include actions to be undertaken in the event that noise criteria exceedances are identified.																				
	The Applicant must implement the Noise Management Plan as approved by the Secretary.	Compliant	ONR05-2022	The site currently operates in accordance with the approved NMP.																				
AIR QUALITY																								
Air Quality Impact Assessment Criteria																								
7.	<div>The Applicant must ensure that particulate matter emissions generated by the development do not cause exceedances of the criteria in Table 3 at any residence on privately-owned land or at the Maroota Public School.</div> <div>Table 3: Air Quality Criteria</div> <table><tr><td>Pollutant</td><td>Averaging Period</td><td colspan="2">Criterion</td></tr><tr><td>Particulate matter &lt; 10µm (PM<sub>10</sub>)</td><td>Annual</td><td colspan="2">a,d 30µg/m<sup>3</sup></td></tr><tr><td>Particulate matter &lt; 10µm (PM<sub>10</sub>)</td><td>24 hour</td><td colspan="2">b. 50µg/m<sup>3</sup></td></tr><tr><td>Total Suspended particulate (TSP)</td><td>Annual</td><td colspan="2">a,d 90µg/m<sup>3</sup></td></tr><tr><td><sup>c</sup> Deposited dust</td><td>Annual</td><td><sup>B</sup> 2 g/m<sup>2</sup>/month</td><td><sup>B</sup> 4 g/m<sup>2</sup>/month</td></tr></table>	Pollutant	Averaging Period	Criterion		Particulate matter < 10µm (PM <sub>10</sub> )	Annual	a,d 30µg/m <sup>3</sup>		Particulate matter < 10µm (PM <sub>10</sub> )	24 hour	b. 50µg/m <sup>3</sup>		Total Suspended particulate (TSP)	Annual	a,d 90µg/m <sup>3</sup>		<sup>c</sup> Deposited dust	Annual	<sup>B</sup> 2 g/m <sup>2</sup> /month	<sup>B</sup> 4 g/m <sup>2</sup> /month	Compliant	ONR60-2022 ONR61-2022 ONR62-2022 ONR63-2022 ONR64-2022	Annual Reviews during the audit period record multiple exceedances of the relevant air quality criteria, the majority of which are attributed to either non-Quarry related activities or extraordinary weather events (e.g. dust storms, bushfires) or occurred outside of the hours when the Quarry was operating.
Pollutant	Averaging Period	Criterion																						
Particulate matter < 10µm (PM <sub>10</sub> )	Annual	a,d 30µg/m <sup>3</sup>																						
Particulate matter < 10µm (PM <sub>10</sub> )	24 hour	b. 50µg/m <sup>3</sup>																						
Total Suspended particulate (TSP)	Annual	a,d 90µg/m <sup>3</sup>																						
<sup>c</sup> Deposited dust	Annual	<sup>B</sup> 2 g/m <sup>2</sup> /month	<sup>B</sup> 4 g/m <sup>2</sup> /month																					



Table A4-1 (Cont'd)  
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Cond. No.	Conditional Requirement	Compliance Status	Basis for Compliance	Comments and Recommended Actions
<b>SCHEDULE 3 – SPECIFIC ENVIRONMENTAL CONDITIONS (Cont'd)</b>				
<b>AIR QUALITY (Cont'd)</b>				
<b>Air Quality Impact Assessment Criteria (Cont'd)</b>				
	<p><i>Notes to Table 3:</i></p> <p>a) <i>Cumulative impact (i.e. increase in concentrations due to the development plus background concentrations due to all other sources).</i></p> <p>b) <i>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.</i></p> <p>c) <i>Deposited dust is to be assessed as insoluble solids as defined by Standards Australia, AS/NZS 3580.10.1:2003:</i></p> <p>d) <i>Methods for Sampling and Analysis of Ambient Air - Determination of Particulate Matter - Deposited Matter - Gravimetric Method.</i></p> <p>e) <i>Excludes extraordinary events such as bushfires, prescribed burning, dust storms, sea fog, fire incidents or any other activity agreed by the Secretary.</i></p>			
<b>Operation Condition</b>				
8. 8. (a)	<p>The Applicant must:</p> <p>implement best practice management to minimise the dust emissions of the development;</p>	Compliant	ONR11-2022 Observations.	<p>The AQMP for the Quarry includes best practice management measures targeting the minimisation of dust emissions.</p> <p>Management measures including covered truck loads, spraying of exposed surfaces using a water cart, and the alarm system integrated into real time air quality monitoring systems were observed during the site inspection.</p>

Table A4-1 (Cont'd)  
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Cond. No.	Conditional Requirement	Compliance Status	Basis for Compliance	Comments and Recommended Actions
<b>SCHEDULE 3 – SPECIFIC ENVIRONMENTAL CONDITIONS (Cont'd)</b>				
<b>AIR QUALITY (Cont'd)</b>				
<b>Operation Condition (Cont'd)</b>				
8. (b)	operate a continuous monitoring system to minimise air quality impacts at sensitive sites such as the Maroota Public School, including: <ul style="list-style-type: none"> <li>a monitoring device that is connected to an alarm system at the site;</li> <li>trigger level(s) as agreed with the EPA;</li> <li>procedures to cease or modify operations in the event that the trigger level(s) are reached, to ensure compliance with the criteria in condition 7 of Schedule 3, to the satisfaction of the EPA;</li> </ul>	Compliant	ONR11-2022. Observations. Advice from Environmental Officer.	A continuous air quality monitoring system, including a PM <sub>10</sub> monitoring station and a weather station, continue to operate at the relevant monitoring locations at the Quarry. An alarm system indicates exceedances of the 37µg/m <sup>3</sup> trigger value by informing site personnel of exceedances via text. Procedures to adjust operations in the event that trigger levels are reached or exceeded are outlined in the AQMP.
8. (c)	assess meteorological and air quality monitoring data on an ongoing basis and relocate, modify and/or stop operations on site to ensure compliance with the air quality criteria in this consent;	Compliant	ONR11-2022. Advice from Environmental Officer. ONR60-2022 ONR61-2022 ONR62-2022 ONR63-2022 ONR64-2022	Procedures to adjust operations in the event that trigger levels are reached or exceeded are outlined in the AQMP. Air quality monitoring data is reviewed regularly and has been comprehensively reviewed in the Annual Reviews during the audit period.
8. (d)	minimise the air quality impacts of the development during adverse meteorological conditions and extraordinary events (see Note d under Table 3);	Compliant	ONR11-2022. Advice from Environmental Officer.	Requirements to minimise air quality impacts during adverse meteorological conditions and extraordinary events are discussed in the AQMP. Weather forecasts and potential implications for air quality impacts are reviewed daily by site personnel.
8. (e)	monitor and report on compliance with the relevant air quality conditions in this consent; and	Compliant	ONR60-2022 ONR61-2022 ONR62-2022 ONR63-2022 ONR64-2022	Air quality monitoring and compliance with relevant criteria and trigger values was reported in the Annual Reviews during the audit period.

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Cond. No.	Conditional Requirement	Compliance Status	Basis for Compliance	Comments and Recommended Actions
<b>SCHEDULE 3 – SPECIFIC ENVIRONMENTAL CONDITIONS (Cont'd)</b>				
<b>AIR QUALITY (Cont'd)</b>				
<b>Operation Condition (Cont'd)</b>				
8. (f)	minimise the area of surface disturbance and undertake progressive rehabilitation of the site, to the satisfaction of the Secretary.	Compliant	Observations.	Exposed operational areas and active extraction areas have been minimised to the greatest extent practicable whilst still supporting efficient Quarry operations. Progressive rehabilitation of an exposed portion of Lot 196 DP 752025 was observed to be underway during the site inspection.
<b>Air Quality Management Plan</b>				
9.	The Applicant must prepare an Air Quality Management Plan for the development to the satisfaction of the Secretary. This plan must:	Compliant	ONR11-2022. ONR53-2019.	The Quarry currently operates in accordance with the AQMP as approved by the (then) DPIE on 16 November 2020.
9. (a)	be prepared in consultation with the EPA;	Compliant	ONR11-2022.	Appendix 2 of the AQMP contains consultation with the EPA undertaken during the preparation of the AQMP.
9. (b)	be submitted to the Secretary for approval within 3 months of the approval of Modification 5, unless otherwise agreed by the Secretary;	Compliant	ONR11-2022. ONR37-2019.	DPE approved an extension of the AQMP submission date from 17 February 2018 to 17 March 2018. The AQMP was submitted to DPE on 16 March 2018 and resubmitted on 23 April 2018.
9. (c)	describe the measures to be implemented to ensure: <ul style="list-style-type: none"> <li>compliance with the air quality criteria and operating conditions of this consent;</li> <li>best practice management is being employed; and</li> <li>the air quality impacts of the development are minimised during adverse meteorological conditions and extraordinary events;</li> </ul>	Compliant	ONR11-2022.	The AQMP includes best practice management measures, measures addressing impacts of weather conditions, and procedures to ensure the implementation of management measures.
9. (d)	describe the proposed air quality management system; and	Compliant	ONR11-2022.	The AQMP outlines the air quality management system employed at the Quarry.
9. (e)	include an air quality monitoring program that: <ul style="list-style-type: none"> <li>is capable of evaluating the performance of the development and informing day to day operational decisions;</li> <li>includes a protocol for determining any exceedances of the relevant conditions of this consent; and</li> <li>effectively supports the air quality management system. The Applicant must implement the Air Quality Management Plan as approved by the Secretary.</li> </ul>	Compliant	ONR11-2022.	The AQMP includes an air quality monitoring program which informs day to day operations at the Quarry, includes a protocol for determining exceedances of relevant criteria and trigger values and supports the air quality management system.

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Cond. No.	Conditional Requirement	Compliance Status	Basis for Compliance	Comments and Recommended Actions
<b>SCHEDULE 3 – SPECIFIC ENVIRONMENTAL CONDITIONS (Cont'd)</b>				
<b>AIR QUALITY (Cont'd)</b>				
<b>Meteorological Monitoring</b>				
10.	For the life of the development, the Applicant must ensure that there is a suitable meteorological station operating in the vicinity of the site that complies with the requirements in the Approved Methods for Sampling and Analysis of Air Pollutants in New South Wales guideline.	Compliant	Weather station and weather records sighted during site inspection.	A weather station was operational during the audit period at the relevant monitoring location adjacent to Maroota Public School.
<b>Greenhouse Gas Emissions</b>				
11.	The Applicant must implement all reasonable and feasible measures to minimise the release of greenhouse gas emissions from the site.	Compliant	ONR11-2022 Advice from Environmental Officer	The management measures targeting the minimisation of greenhouse gas emissions that are included in the AQMP have been adopted throughout the audit period.
<b>SOIL AND WATER</b>				
<b>Water Supply</b>				
12.	The Applicant must ensure that it has sufficient water for all stages of the development, and if necessary, adjust the scale of operations under the consent to match its available water supply, to the satisfaction of the Secretary.  <i>Note: Under the Water Act 1912 and/or the Water Management Act 2000, the Applicant is required to obtain all necessary water licences for the development.</i>	Compliant	ONR60-2022 ONR61-2022 ONR62-2022 ONR63-2022 ONR64-2022	Annual water usage reporting indicates that operational demands remain below water allocation volumes.
<b>Water Discharges</b>				
13.	The Applicant must comply with the discharge limits in any EPL, or with section 120 of the POEO Act.	Non-compliant	ONR60-2022 ONR61-2022 ONR62-2022 ONR63-2022 ONR64-2022 ONR04-2022 ONR54-2022	Water sampling at LDP01 prior to controlled discharge events (February and March 2020) indicated compliance with the relevant EPL discharge criteria.  Procedures for controlled discharge are outlined in Section 5.1 of the WMP.  An uncontrolled discharge at location LDP01 was observed on 16 June 2020 during an inspection conducted by the NSW EPA.

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Cond. No.	Conditional Requirement	Compliance Status	Basis for Compliance	Comments and Recommended Actions
<b>SCHEDULE 3 – SPECIFIC ENVIRONMENTAL CONDITIONS (Cont'd)</b>				
<b>SOIL AND WATER (Cont'd)</b>				
<b>Water Discharges (Cont'd)</b>				
13. Cont'd				<p>This uncontrolled discharge was the result of overtopping of the Main Dam weir following continued transfer of water from the Twin Ponds during a period when pumps to the processing plant were not operational and the overflow pipe to Cons Hill was shut off. As monitoring was not undertaken prior to discharge to determine compliance with water quality parameters specified under EPL 3916, the uncontrolled discharge event was reported as an incident to the EPA on 30 June 2020</p> <p>See <b>Recommendation ONR R12/22</b>.</p> <p>An uncontrolled discharge at location LDP01 also occurred during March 2022. This discharge event occurred during the exemption period nominated by the NSW EPA (3 March 2022 to 14 March 2022) during which discharge incidents were not required to be reported as a result of significant rainfall.</p>
<b>Groundwater Management</b>				
14.	<p>The Applicant must ensure that all bores and associated groundwater monitoring equipment for the development are maintained, and/or replaced if necessary, throughout the life of the development, to the satisfaction of DPI Water.</p> <p><i>Note: MW4 may be removed immediately prior to quarrying in that area.</i></p>	Compliant	<p>Observations. Monthly Site Inspection Checklist. Advice from Environmental Officer.</p>	<p>Groundwater bores were installed prior to the audit period. Groundwater monitoring and extraction bores were observed to be well maintained during the site inspection although one bore (MW2) was not visibly numbered (see <b>Recommendation R6/22</b>). Bores are regularly inspected in accordance with the monthly inspection checklist.</p>
15.	<p>Prior to commencing works associated with Modification 4, the Applicant must install additional monitoring bores within the MTSGS buffer zone within Lot 2 DP 547255 (south of MW2), including at least one deep monitoring bore that targets the regional groundwater table and at least one shallow groundwater monitoring bore.</p> <p><i>Note: This condition does not establish a new requirement to undertake these actions following the approval of Modification 5. Rather, it continues the previous requirement to undertake these actions.</i></p>	Compliant	<p>ONR27-2019. ONR10-2022.</p>	<p>Bores 8 and 9, located within the MTSGS buffer zone and shown in the Environmental Monitoring Plan, were installed on 6 August 2019.</p>

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Cond. No.	Conditional Requirement	Compliance Status	Basis for Compliance	Comments and Recommended Actions
<b>SCHEDULE 3 – SPECIFIC ENVIRONMENTAL CONDITIONS (Cont'd)</b>				
<b>SOIL AND WATER (Cont'd)</b>				
<b>Groundwater Management (Cont'd)</b>				
16.	Seepage of groundwater from the MTSGS buffer zone into the quarry pit must be measured and recorded (if there is sufficient water volume to pump and measure).	Compliant	Advice from Environmental Officer.	No significant groundwater inflow into the extraction area pit has been observed during the audit period.
17.	The Applicant must ensure that groundwater in the regional groundwater source managed under the Water Sharing Plan for the Greater Metropolitan Groundwater Sources 2011 is not intercepted or contaminated by its operations. In the event of this groundwater being intercepted or contaminated, operations are to cease within the vicinity of the affected area and the Applicant must consult with the Secretary and DPI Water to determine the basis upon which extraction may recommence.  <i>Note: Perched groundwater lenses that are above the regional groundwater source and are outside the MTSGS buffer zone may be intercepted however Water Access Licences must be held to account for all groundwater taken.</i>	Compliant	ONR04-2022.	Procedures to monitor and, if necessary, licence any groundwater seepage into the extraction area pit are outlined in the SWMP.
18.	In the event that the regional groundwater table is intercepted by any on-site dams, the Applicant must carry out remedial works, such as backfilling to the depth of the water table, to the satisfaction of the Secretary.	Not Triggered.	Advice from Environmental Officer.	On-site dams have not intercepted regional groundwater tables.
<b>Soil and Water Management</b>				
19.	The Applicant must consult with DPI Water prior to commencement of operations in strip 4 (as shown in the figure in Appendix 2) on Lots 1 and 2 DP 547255 and, if required, obtain a permit under the Fisheries Management Act 1994 for works to be carried out on the site.	Not Triggered.	Observations. Advice from Environmental Officer.	Operations have not yet commenced in the Strip 4 area.
20.	The Applicant must prepare a Soil and Water Management Plan for the development to the satisfaction of the Secretary. This plan must:	Compliant	ONR04-2022 ONR78-2022	The Quarry currently operates in accordance with a SWMP dated November 2020 and approved by the (then) DPIE on 16 November 2020.

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Cond. No.	Conditional Requirement	Compliance Status	Basis for Compliance	Comments and Recommended Actions
<b>SCHEDULE 3 – SPECIFIC ENVIRONMENTAL CONDITIONS (Cont'd)</b>				
<b>SOIL AND WATER (Cont'd)</b>				
<b>Soil and Water Management (Cont'd)</b>				
20. (a)	be prepared by a suitably qualified and experienced person/s approved by the Secretary;	Compliant	ONR04-2022	A DPE endorsement letter is included as Appendix 2 of the SWMP.
20. (b)	be prepared in consultation with the EPA and DPI Water;	Compliant	ONR04-2022	Consultation with the EPA and DPI Water is included as Appendix 2 of the SWMP.
20. (c)	be submitted to the Secretary for approval within 3 months of the approval of Modification 5, unless otherwise agreed by the Secretary; and include a:	Compliant	ONR04-2022 ONR37-2019 Advice from Environmental Officer.	Submission date extension from 17 February 2018 to 17 March 2018 confirmed in letter from DPE dated 10 January 2018. The SWMP was submitted for approval on 16 March 2018 and resubmitted on 27 April 2018.
20. (d) (i)	Site Water Balance that includes: <ul style="list-style-type: none"> <li>details of: <ul style="list-style-type: none"> <li>sources and security of water supply;</li> <li>water use and management on site;</li> <li>any off-site water transfers; and</li> <li>reporting procedures; and</li> </ul> </li> <li>measures to be implemented to minimise clean water use on site.</li> </ul>	Compliant	ONR04-2022	Section 4 of the SWMP outlines the Quarry water balance while Section 5 details discharges and reporting procedures. It is noted that water for use in dust suppression and processing are wholly met by water captured within the Quarry. Therefore, the minimisation of the volume of clean water from upslope acts to minimise the volume of clean water used on site.
20. (d) (ii)	Surface Water Management Plan, that includes: <ul style="list-style-type: none"> <li>a program for obtaining detailed baseline data on surface water flows and quality in water bodies that could potentially be affected by the development;</li> </ul>	Compliant	ONR04-2022	Section 5.1.2.1 of the SWMP details the monitoring program for receiving waters.
	<ul style="list-style-type: none"> <li>a detailed description of the surface water management system on site including the: <ul style="list-style-type: none"> <li>clean water diversion system;</li> <li>erosion and sediment controls;</li> <li>dirty water management system; and</li> <li>water storages; and</li> </ul> </li> </ul>	Compliant	ONR04-2022	The surface water management system is described in Section 3 of the SWMP. The condition of water diversion banks / bunds was observed to be variable across the site. <b>See Recommendation ONR R4/22.</b> <b>See Improvement ONR I4/2022.</b>

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Cond. No.	Conditional Requirement	Compliance Status	Basis for Compliance	Comments and Recommended Actions
<b>SCHEDULE 3 – SPECIFIC ENVIRONMENTAL CONDITIONS (Cont'd)</b>				
<b>SOIL AND WATER (Cont'd)</b>				
<b>Soil and Water Management (Cont'd)</b>				
20. (d) (ii) Cont'd	<ul style="list-style-type: none"> <li>a program to monitor and report on: <ul style="list-style-type: none"> <li>any surface water discharges;</li> <li>the effectiveness of the water management system;</li> <li>the quality of water discharged from the site to the environment; and</li> <li>surface water flows and quality in local watercourses; and</li> </ul> </li> </ul>	Compliant	ONR04-2022	Monitoring and reporting procedures are outlined in Section 5.1 of the SWMP.
20. (d) (iii)	Groundwater Management Plan that includes: <ul style="list-style-type: none"> <li>detailed management measures to ensure that quarrying operations, other than monitoring bores, do not intercept the highest recorded wet weather groundwater level within the MTSGS buffer zone and/or the regional groundwater table within the Sydney Basin Central Groundwater Source;</li> </ul>	Compliant	ONR04-2022	Measures concerning extraction depth monitoring and management are detailed in Section 5.2 of the SWMP.
	<ul style="list-style-type: none"> <li>a protocol to obtain appropriate water licence(s) to cover the volume of any unforeseen groundwater inflows into the quarry from the quarry face or floor; and</li> </ul>	Compliant	ONR04-2022	Section 6.2 includes monitoring measures and a protocol to obtain appropriate licencing in the event that groundwater inflows exceed licenced volumes.
	<ul style="list-style-type: none"> <li>a monitoring program to manage potential impacts, if any, on any alluvium and associated surface water source near the proposed extraction area that includes: <ul style="list-style-type: none"> <li>identification of a methodology for determining threshold water level criteria;</li> <li>contingency measures in the event of a breach of thresholds; and</li> <li>a program to regularly report on monitoring.</li> </ul> </li> </ul> <p>The Applicant must implement the Soil and Water Management Plan as approved by the Secretary.</p>	Compliant	ONR04-2022	Sections 5.2 and 6.2 detail monitoring and reporting procedures as well as a trigger action response plan to be implemented in the event that water quality results exceed trigger values.



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Cond. No.	Conditional Requirement	Compliance Status	Basis for Compliance	Comments and Recommended Actions
<b>SCHEDULE 3 – SPECIFIC ENVIRONMENTAL CONDITIONS (Cont'd)</b>				
<b>TRANSPORT</b>				
<b>Monitoring of Product Transport</b>				
21.	The Applicant must keep accurate records of all laden truck movements to and from the site (including time of arrival and dispatch) and publish a summary of records on its website every 6 months.	<b>Non-compliant</b>	Spot check of weighbridge dockets.	Laden truck movement records are retained on site as weighbridge dockets and in an Excel spreadsheet. Weighbridge dockets do not record the time of arrival from laden trucks entering the site from the Haerses Road Quarry  See <b>Recommendation ONR R3/22)</b>  It is noted that laden truck despatch times from HR Quarry can be used to determine arrival times at ONR Quarry.  Dixon Sand advised that they are currently implementing new weighbridge software to track truck movements and expect this software to be operational from December 2022.  A summary is published on the Dixon Sand website.
<b>Operating Conditions</b>				
22.	The Applicant must:			
22. (a)	advise its drivers and its clients not to arrive at the site prior to 5:45 am on any day;	Compliant	ONR06-2022. Observations. Sighting of induction records.	Driver requirements are outlined in the Site Traffic Management Plan: Maroota, which forms Appendix 3 of the TMP, and during driver inductions.
22. (b)	ensure that all laden trucks have their loads covered when arriving at or leaving the site;	Compliant		Vehicles were observed with covered loads during the site inspection and no vehicles with loose material with the potential to fall from vehicles were observed during the site inspection. The design of trailers observed effectively prevents the accumulation of loose material on the exterior of the trailer.
22. (c)	ensure that all laden trucks are cleaned of material that may fall from vehicles, before leaving the site; and	Compliant		
22. (d)	use its best endeavours to ensure that appropriate signage is displayed on all trucks used to transport product from the development so they can be easily identified by road users.	Compliant	ONR06-2022.	The requirement to display appropriate truck signage (registration plate, branding, identification features) is outlined in Section 5 of the TMP. The bulk of the trucks travelling to and from the ONR Quarry include ownership/corporate details on the exterior of the truck and/or trailers.

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Cond. No.	Conditional Requirement	Compliance Status	Basis for Compliance	Comments and Recommended Actions
<b>SCHEDULE 3 – SPECIFIC ENVIRONMENTAL CONDITIONS (Cont'd)</b>				
<b>TRANSPORT (Cont'd)</b>				
<b>Transport Management Plan</b>				
23.	The Applicant must prepare a Traffic Management Plan for the development to the satisfaction of the Secretary. This plan must:	Compliant	ONR06-2022 ONR79-2022	The site currently operates in accordance with TMP dated November 2020 and approved by the (then) DPIE on 16 November 2022.
23. (a)	be prepared in consultation with the RMS and Council;	Compliant	ONR06-2022	Consultation with RMS and Hills Shire Council is presented as Appendix 2 of the TMP.
23. (b)	be submitted to the Secretary for approval within 3 months of the approval of Modification 5, unless otherwise agreed by the Secretary;	Compliant	ONR06-2022. ONR37-2019. Advice from Environmental Officer.	Extension of the submission date from 17 February to 17 March 2018 was granted by DPE on 10 January 2019. The TMP was submitted for approval on 16 March 2018 and resubmitted on 23 April 2018.
23. (c)	describe the processes in place to control the arrival and dispatch of trucks;	Compliant	ONR06-2022	Section 5 of the TMP details traffic management controls for the Quarry.
23. (d)	include a Drivers' Code of Conduct that details the safe and quiet driving practices that must be used by drivers travelling to and from the site, particularly in the vicinity of the Maroota Public School;	Compliant	ONR06-2022	Section 4 of the TMP outlines the Drivers Code of Conduct, detailing expected safe and quiet driving practices.
23. (e)	describe the measures to be put in place to ensure compliance with the Drivers' Code of Conduct;	Compliant	ONR06-2022	Measures to ensure compliance with the Drivers Code of Conduct are outlined in Section 4.2 of the TMP. <b>See Improvement I2/2022.</b>
23. (f)	include specific measures to minimise the impact of heavy vehicles, including restrictions on routes and times (particularly in relation to peak hours, holiday periods and times immediately before and after school hours, i.e. 8.30 am – 9.00 am and 3.00 pm – 3.30 pm); and	Compliant	ONR06-2022	Management measures concerning movement and route restrictions with specific regard for school and holiday periods are outlined in Section 5 of the TMP.
23. (g)	propose measures to minimise the transmission of dust and tracking of material onto the surface of the public road from vehicles leaving the quarry.	Compliant	ONR06-2022	Measures to minimise dust and material tracking are outlined in Section 5 of the TMP.
	The Applicant must implement the approved Traffic Management Plan as approved by the Secretary.	Compliant	ONR06-2022	The Quarry operates in accordance with the approved TMP.

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Cond. No.	Conditional Requirement	Compliance Status	Basis for Compliance	Comments and Recommended Actions						
SCHEDULE 3 – SPECIFIC ENVIRONMENTAL CONDITIONS (Cont'd)										
ABORIGINAL HERITAGE										
24.	If any suspected object or place of Aboriginal heritage significance is identified on site, the Applicant must ensure that:	Not Triggered	ONR08-2022	No Aboriginal sites have been identified within the Quarry site. An Unexpected Archaeological Finds protocol is included as Section 9 of the EMS.						
24. (a)	all work in the immediate vicinity of the suspected Aboriginal object or place ceases immediately;									
24. (b)	a 10m buffer area around the suspected Aboriginal object or place is cordoned off; and									
24. (c)	the OEH is contacted immediately Work in the immediate vicinity of the suspected Aboriginal object or place may only recommence in accordance with the provisions of Part 6 of the National Parks and Wildlife Act 1974.									
BIODIVERSITY AND REHABILITATION										
Biodiversity Offset Strategy										
25.	The Applicant must:	Compliant	ONR07-2022 ONR60-2022 ONR61-2022 ONR62-2022 ONR63-2022 ONR64-2022	The biodiversity offset strategy for the Native Vegetation Corridor and Haerses Road Biodiversity Offset Area are outlined in the BRMP for the Quarry. Details of rehabilitation and weed control activities undertaken during the audit period are provided in annual bush regeneration reports and biodiversity and rehabilitation management reports included in the Annual Reviews.						
25. (a)	implement the Biodiversity Offset Strategy (see Table 4); Table 4: Biodiversity Offset Strategy									
	<table><tr><th>Offset Areas</th><th>Minimum Size</th></tr><tr><td>Native Vegetation Corridor (on-site), as shown conceptually in Appendix 1.</td><td>6.83 hectares</td></tr><tr><td>Haerses Road Biodiversity Offset Area (off-site)</td><td>8.70 hectares</td></tr></table>				Offset Areas	Minimum Size	Native Vegetation Corridor (on-site), as shown conceptually in Appendix 1.	6.83 hectares	Haerses Road Biodiversity Offset Area (off-site)	8.70 hectares
Offset Areas	Minimum Size									
Native Vegetation Corridor (on-site), as shown conceptually in Appendix 1.	6.83 hectares									
Haerses Road Biodiversity Offset Area (off-site)	8.70 hectares									
25. (b)	ensure that adequate resources are dedicated towards the implementation of this strategy;	Compliant	Advice from Environmental Officer. ONR07-2022	Proposed terms for a Public Positive Covenant were submitted by Dixon Sand to DPIE on 24 August 2019 and a response is awaited. Monitoring and management activities associated with the Biodiversity Offset Area commenced in July 2015.						
25. (c)	provide appropriate long term security for the Haerses Road Biodiversity Offset Area; and	Non-compliant	Advice from Environmental Officer.	Proposed terms for a Public Positive Covenant were submitted by Dixon Sand to DPIE on 24 August 2019. However, confirmation of these terms is awaited and, once confirmed, Dixon Sand will seek to register the Haerses Road Biodiversity Offset Area under this arrangement. See Recommendation ONR R9/19.						

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Cond. No.	Conditional Requirement	Compliance Status	Basis for Compliance	Comments and Recommended Actions
<b>SCHEDULE 3 – SPECIFIC ENVIRONMENTAL CONDITIONS (Cont'd)</b>				
<b>BIODIVERSITY AND REHABILITATION (Cont'd)</b>				
<b>Biodiversity Offset Strategy (Cont'd)</b>				
25. (d)	provide a timetable for the implementation of the offset strategy by the end of June 2016, or as otherwise agreed by the Secretary, to the satisfaction of the Secretary.	Compliant	ONR07-2022	A timetable for the implementation of the Native Vegetation Corridor component of the offset strategy is provided in Section 7 of the BRMP.  Completion criteria for the Haerses Road Biodiversity Offset Area component of the strategy are provided in Appendix 3 of the BRMP. These criteria are effectively ongoing performance indicators. The strategy provides timing for management actions and monitoring which remain ongoing during the Project life.
	"Prior to 30 September 2015, the Applicant must confirm the boundary of the Haerses Road Biodiversity Offset Area to the satisfaction of the Secretary. No vegetation clearing is to occur within the expanded extraction area within Lot 2 DP 547255 approved under Modification 4 until the Secretary's approval for the boundary of the Haerses Road Biodiversity Offset Area is obtained.  <i>Note: For the purposes of this consent suitable arrangements may include the use of Public Positive Covenants in combination with Restrictions in Use of Land on the land titles of the Offset Area. Other arrangements such as dedication of land under the National Parks and Wildlife Act 1974, Trust Agreements under the Nature Conservation Trust Act 2001 or a Property Vegetation Plan registered on title under the Native Vegetation Act 2003 would be considered for their suitability by the Secretary. "</i>	Compliant	2016 Independent Environmental Audit.	A survey of the HRBOA boundary was conducted by McKinley Morgan and Associates in September 2015 and the survey plans were submitted to DPE on 29 September 2015.

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Cond. No.	Conditional Requirement	Compliance Status	Basis for Compliance	Comments and Recommended Actions						
SCHEDULE 3 – SPECIFIC ENVIRONMENTAL CONDITIONS (Cont'd)										
BIODIVERSITY AND REHABILITATION (Cont'd)										
Rehabilitation Objectives										
26.	<p>The Applicant must rehabilitate the site to the satisfaction of the Secretary. This rehabilitation must be generally consistent with the conceptual final landform in Appendix 5 and must comply with the objectives in Table 5.</p> <p><i>Table 5: Rehabilitation Objectives</i></p> <table><tr><th>Feature</th><th>Objective</th></tr><tr><td>All areas of the site affected by the development</td><td><ul style="list-style-type: none"><li>• Safe</li><li>• Hydraulically and geotechnically stable</li><li>• Non-polluting</li><li>• Fit for the intended final land use(s)</li><li>• Final landform integrated with surrounding natural landforms as far as is reasonable and feasible, and minimising visual impacts when viewed from surrounding land</li><li>• Landscaped and vegetated using native tree and understorey species or agricultural species in accordance with the Biodiversity and Rehabilitation Management Plan</li></ul></td></tr><tr><td>Surface infrastructure</td><td><ul style="list-style-type: none"><li>• Decommissioned and removed, unless otherwise agreed by the Secretary</li></ul></td></tr></table>	Feature	Objective	All areas of the site affected by the development	<ul style="list-style-type: none"><li>• Safe</li><li>• Hydraulically and geotechnically stable</li><li>• Non-polluting</li><li>• Fit for the intended final land use(s)</li><li>• Final landform integrated with surrounding natural landforms as far as is reasonable and feasible, and minimising visual impacts when viewed from surrounding land</li><li>• Landscaped and vegetated using native tree and understorey species or agricultural species in accordance with the Biodiversity and Rehabilitation Management Plan</li></ul>	Surface infrastructure	<ul style="list-style-type: none"><li>• Decommissioned and removed, unless otherwise agreed by the Secretary</li></ul>	Compliant	ONR07-2022	Rehabilitation at the Quarry site to date has been undertaken in accordance with the BRMP and has included revegetation using native tree and understorey species as well as the preparation of stable final landform areas (e.g. a portion of Lot 196 DP 752025).
Feature	Objective									
All areas of the site affected by the development	<ul style="list-style-type: none"><li>• Safe</li><li>• Hydraulically and geotechnically stable</li><li>• Non-polluting</li><li>• Fit for the intended final land use(s)</li><li>• Final landform integrated with surrounding natural landforms as far as is reasonable and feasible, and minimising visual impacts when viewed from surrounding land</li><li>• Landscaped and vegetated using native tree and understorey species or agricultural species in accordance with the Biodiversity and Rehabilitation Management Plan</li></ul>									
Surface infrastructure	<ul style="list-style-type: none"><li>• Decommissioned and removed, unless otherwise agreed by the Secretary</li></ul>									
Progressive Rehabilitation										
27.	<p>"The Applicant must rehabilitate the site progressively, that is, as soon as reasonably practicable following disturbance. All reasonable 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.</p> <p><i>Note: It is accepted that parts of the site that are progressively rehabilitated may be subject to future re-disturbance.</i></p>	Compliant	ONR07-2022 Observations.	Progressive rehabilitation has been undertaken at the quarry where practicable to reduce the area of exposed surfaces. Additionally, interim stabilisation measures including the establishment of cover crops (native species) on bunds have been implemented to control dust emission prior to final rehabilitation.						
Riparian Management										
28	The Applicant must establish a riparian zone, revegetated with local native species, along the entire length of the reconstructed ephemeral waterway on the site. The riparian zone shall be no less than 20m wide measured horizontally and at right angles to the flow from the top of both banks. No exotic plant species, other than sterile cover crops, are to be planted in the riparian zone.	Not Triggered	Observation.	The riparian zone has not yet been established as final rehabilitation and reconstruction of the ephemeral waterway within Lot 2 547255 has not yet commenced.						

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Cond. No.	Conditional Requirement	Compliance Status	Basis for Compliance	Comments and Recommended Actions
<b>SCHEDULE 3 – SPECIFIC ENVIRONMENTAL CONDITIONS (Cont'd)</b>				
<b>BIODIVERSITY AND REHABILITATION (Cont'd)</b>				
<b>Biodiversity and Rehabilitation Management Plan</b>				
29	The Applicant must prepare a Biodiversity and Rehabilitation Management Plan for the development to the satisfaction of the Secretary. This plan must:	Compliant	ONR07-2022 ONR80-2022	The site currently operates in accordance with the BRMP dated November 2020 as approved by the (then) DPIE on 16 November 2020.
29 (a)	be prepared by a suitably qualified expert;	Compliant	ONR07-2022	Prepared by Alison Riley of Umwelt - Alison Riley (Umwelt NSW Ecology Manager).
29 (b)	be prepared in consultation with OEH and Council;	Compliant	ONR07-2022	Consultation with OEH and Hills Shire Council is presented as Appendix 2 of the BRMP.
29 (c)	be submitted to the Secretary for approval within 3 months of the approval of Modification 5, unless otherwise agreed by the Secretary;	Compliant	ONR07-2022 ONR37-2019 Advice from Environmental Officer.	Extension of the submission date from 17 February to 17 March 2018 was granted by DPE on 10 January 2019. The BRMP was submitted for approval on 16 March 2018 and resubmitted on 23 April 2018.
29 (d)	provide details of the conceptual final landform and associate final land use(s) for the site;	Compliant	ONR07-2022	Conceptual final landform and land use detailed in Sections 5.3 and 5.4 of the BRMP.
29 (e)	describe how the implementation of the Biodiversity Offset Strategy will be integrated with the overall rehabilitation of the site;	Compliant	ONR07-2022	The BRMP details the integration of the Riparian Vegetation Corridor offset component into the broader Quarry site through integrated management and monitoring approaches. A conceptual final landform including this area is provided in Figure 5.1.  The Haerses Road Biodiversity Offset Area is located adjacent to a separate Quarry site, the Haerses Road Quarry, and will therefore be integrated into the final landform for that site.
29 (f)	"describe the short, medium and long term measures to be implemented to: <ul style="list-style-type: none"><li>manage remnant vegetation and habitat on site, including within the Biodiversity Offset Strategy area; and</li><li>ensure compliance with the rehabilitation objectives and progressive rehabilitation obligations in this consent;"</li></ul>	Compliant	ONR07-2022	Section 6 of the BRMP details remnant vegetation and habitat management measures and measures targeting compliance with rehabilitation objectives. Section 7 provides an indication of the rehabilitation staging timeframe.

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Cond. No.	Conditional Requirement	Compliance Status	Basis for Compliance	Comments and Recommended Actions
<b>SCHEDULE 3 – SPECIFIC ENVIRONMENTAL CONDITIONS (Cont'd)</b>				
<b>BIODIVERSITY AND REHABILITATION (Cont'd)</b>				
<b>Biodiversity and Rehabilitation Management Plan (Cont'd)</b>				
29 (g)	"include a detailed description of the measures described in paragraph (f) to be implemented over the next 3 years (to be updated for each 3 year period following initial approval of the plan) including the procedures to be implemented for: <ul style="list-style-type: none"> <li>establishment and maintenance of the riparian zone required under condition 29 above;</li> </ul>	Compliant	ONR07-2022	Actions concerning the establishment and maintenance of the riparian zone over the next 3 years are outlined in Section 7.2.
	<ul style="list-style-type: none"> <li>maximising the salvage of environmental resources within the approved disturbance area, including tree hollows, vegetative and soil resources, for beneficial reuse in the enhancement of the offset area or site rehabilitation;</li> </ul>	Compliant	ONR07-2022	Actions concerning the salvage of environmental resources over the next 3 years are outlined in Section 7.2.
	<ul style="list-style-type: none"> <li>restoring and enhancing the quality of native vegetation and fauna habitat in the biodiversity offset and rehabilitation areas through assisted natural regeneration, targeted vegetation establishment and the introduction of fauna habitat features;</li> </ul>	Compliant	ONR07-2022	Actions concerning the restoration and enhancement of native vegetation and habitat over the next 3 years are outlined in Section 7.2.
	<ul style="list-style-type: none"> <li>protecting vegetation and fauna habitat outside the approved disturbance area on-site;</li> </ul>	Compliant	ONR07-2022	Actions concerning the protection of vegetation and habitat over the next 3 years are outlined in Section 7.2.
	<ul style="list-style-type: none"> <li>minimising the impacts on native fauna, including undertaking pre-clearance surveys and avoiding clearing activities during sensitive hibernation and breeding periods;</li> </ul>	Compliant	ONR07-2022	Actions concerning the minimisation of impacts on native fauna over the next 3 years are outlined in Section 7.2.
	<ul style="list-style-type: none"> <li>establishing vegetation screening to minimise the visual impacts of the site on surrounding receivers;</li> </ul>	Compliant	ONR07-2022	Actions concerning the establishment of vegetation screens over the next 3 years are outlined in Section 7.2.
	<ul style="list-style-type: none"> <li>ensuring minimal environmental consequences for threatened species, populations and habitats;</li> </ul>	Compliant	ONR07-2022	Actions concerning the minimisation of consequences for threatened species, populations and habitats over the next 3 years are outlined in Section 7.2.
	<ul style="list-style-type: none"> <li>collecting and propagating seed;</li> </ul>	Compliant	ONR07-2022	Actions concerning the collection and propagation of seeds over the next 3 years are outlined in Section 7.2.
	<ul style="list-style-type: none"> <li>controlling weeds and feral pests;</li> </ul>	Compliant	ONR07-2022	Actions concerning the control of weed and pest species over the next 3 years are outlined in Section 7.2.
	<ul style="list-style-type: none"> <li>controlling erosion; and</li> </ul>	Compliant	ONR07-2022	Actions concerning control of erosion over the next 3 years are outlined in Section 7.2.



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Cond. No.	Conditional Requirement	Compliance Status	Basis for Compliance	Comments and Recommended Actions
<b>SCHEDULE 3 – SPECIFIC ENVIRONMENTAL CONDITIONS (Cont'd)</b>				
<b>BIODIVERSITY AND REHABILITATION (Cont'd)</b>				
<b>Biodiversity and Rehabilitation Management Plan (Cont'd)</b>				
29 (g) Cont'd	<ul style="list-style-type: none"> <li>managing bushfire risk;</li> </ul>	Compliant	ONR07-2022	Actions concerning the management of bushfire risk over the next 3 years are outlined in Section 7.2.
29 (h)	include a program to monitor the effects of the development on flora and fauna, including known populations of <i>Tetratheca glandulosa</i> , <i>Melaleuca deanei</i> , <i>Darwinia fascicularis subsp. oligantha</i> , and <i>Kunzea rupestris</i> on the site, including annual surveys of any threatened species for the duration of quarrying operations;	Compliant	ONR07-2022	Appendix 5 of the BRMP provides a flora and fauna monitoring program. This program has been followed and reported upon in the respective Annual Reviews.
29 (i)	include a specific program to translocate, propagate, and revegetate threatened plant species on the site including <i>Melaleuca deanei</i> , <i>Darwinia Fascicularis susp. oligantha</i> , and <i>Kunzea rupestris</i> , to be implemented under the direction of a qualified ecologist;	Compliant	ONR07-2022	Section 6.5 of the BRMP details the translocation and propagation program for threatened plant species. The mother plant of <i>Melaleuca deanei</i> was translocated to the VCN in June 2022.
29 (j)	include detailed performance and completion criteria for evaluating the performance of the translocation program in paragraph (i), the Biodiversity Offset Strategy and the rehabilitation of the site (including progressive rehabilitation), including triggers for any necessary remedial action;	Compliant	ONR07-2022	Performance and completion criteria for the translocation program are detailed in Section 6.5.6 of the BRMP and Section 3 of Appendix 5 of the BRMP.
29 (k)	include a program to monitor and report on the effectiveness of the measures described in paragraphs (f), (g) and (i), and progress against the performance and completion criteria;	Compliant	ONR07-2022	Monitoring and reporting procedures are outlined in Sections 8 and 9 of the BRMP. The Annual Reviews prepared during the audit period document the results of the monitoring program.
29 (l)	identify the potential risks to the successful implementation of the plan, and include a description of the contingency measures to be implemented to mitigate against or address these risks, including specific measures to be implemented in the event that the performance and completion criteria are not satisfied; and	Compliant	ONR07-2022	Potential risks and corrective management actions are identified in Section 11 of the BRMP.
29 (m)	include details of who is responsible for monitoring, reviewing, and implementing the plan.	Compliant	ONR07-2022	Section 12 of the BRMP outlines accountabilities for monitoring, reviewing and implementing the BRMP.



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Cond. No.	Conditional Requirement	Compliance Status	Basis for Compliance	Comments and Recommended Actions
<b>SCHEDULE 3 – SPECIFIC ENVIRONMENTAL CONDITIONS (Cont'd)</b>				
<b>BIODIVERSITY AND REHABILITATION (Cont'd)</b>				
<b>Biodiversity and Rehabilitation Bond</b>				
30.	"Within 6 months of the approval of the Biodiversity and Rehabilitation Management Plan, the Applicant must lodge a Biodiversity and Rehabilitation Bond with the Department to ensure that the Biodiversity Offset Strategy and rehabilitation of the site are implemented in accordance with the performance and completion criteria set out in the Biodiversity and Rehabilitation Management Plan and the relevant conditions of this consent. The sum of the bond must be determined by	Compliant	ONR49-2019 ONR50-2019 ONR51-2019 ONR52-2019 ONR56-2022	Confirmation of the Biodiversity and Rehabilitation Bond calculation was provided by DPE on 25 October 2018. The funds for the bond were provided to DPE on 1 November 2018.
30. (a)	calculating the full cost of implementing the Biodiversity Offset Strategy;			
30. (b)	calculating the cost of rehabilitating all disturbed areas of the site, taking into account the likely surface disturbance over the next 3 years of quarrying operations; and			
30. (c)	employing a suitably qualified quantity surveyor or other expert to verify the calculated costs, to the satisfaction of the Secretary. <i>Notes:</i> <ul style="list-style-type: none"> <li><i>Alternative funding arrangements for long term management of the Biodiversity Offset Strategy, such as provision of capital and management funding as agreed by OEH as part of a BioBanking Agreement, or transfer to conservation reserve estate can be used to reduce the liability of the Biodiversity and Rehabilitation Bond.</i></li> <li><i>Alternative funding arrangements for long term management of the Biodiversity Offset Strategy, such as provision of capital and management funding as agreed by OEH as part of a BioBanking Agreement, or transfer to conservation reserve estate can be used to reduce the liability of the Biodiversity and Rehabilitation Bond</i></li> <li><i>If capital and other expenditure required by the Biodiversity and Rehabilitation Management Plan is largely complete, the Secretary may waive the requirement for lodgement of a bond in respect of the remaining expenditure.</i></li> </ul>	-	-	Noted.

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Cond. No.	Conditional Requirement	Compliance Status	Basis for Compliance	Comments and Recommended Actions
<b>SCHEDULE 3 – SPECIFIC ENVIRONMENTAL CONDITIONS (Cont'd)</b>				
<b>BIODIVERSITY AND REHABILITATION (Cont'd)</b>				
<b>Biodiversity and Rehabilitation Bond (Cont'd)</b>				
30. (c) Cont'd	<ul style="list-style-type: none"> <li>If the Biodiversity Offset Strategy and/or rehabilitation of the site area are completed (or partially completed) to the satisfaction of the Secretary, then the Secretary will release the bond (or relevant part of the bond).</li> <li>If the Biodiversity Offset Strategy and rehabilitation of the site are 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.</li> <li>Any redundant rehabilitation or biodiversity bonds currently held by the Department in relation to the development may be released following acceptance of the Biodiversity and Rehabilitation bond required under this condition. "</li> </ul>			
31	The Biodiversity and Rehabilitation Bond must be reviewed and (if required), an updated bond must be lodged with the Department within 3 months following:	Compliant	-	The Rehabilitation Bond was reviewed following the 2019 IEA and notification of this review was provided to the (the) DPIE on 9 April 2020 and again on 3 August 2020. The review included current and proposed surface disturbance to 2021 (i.e. including the period during which the BRMP was revised and approved).
31 (a)	an update or revision to the Biodiversity and Rehabilitation Management Plan;			
31 (b)	the completion of an Independent Environmental Audit in which recommendations relating to the implementation of the Biodiversity Offset Strategy and/or rehabilitation of the site have been made; or	Compliant	-	The Rehabilitation Bond was reviewed following the 2019 IEA and notification of this review was provided to the (the) DPIE on 9 April 2020 and again on 3 August 2020. The review included current and proposed surface disturbance to 2021. No amendment to the bond was considered necessary.
31 (c)	in response to a request by the Secretary.	Not Triggered	-	No request received from the Secretary.
<b>VISUAL</b>				
32	The Applicant must implement all reasonable and feasible measures to minimise the visual and off-site lighting impacts of the development to the satisfaction of the Secretary.	Compliant	ONR07-2022	Outlined in Section 6.3.6 of the BRMP.

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Cond. No.	Conditional Requirement	Compliance Status	Basis for Compliance	Comments and Recommended Actions
<b>SCHEDULE 3 – SPECIFIC ENVIRONMENTAL CONDITIONS (Cont'd)</b>				
<b>WASTE</b>				
33	The Applicant must:			
33 (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;	Compliant	Advice from Environmental Officer.	Installation of existing on-site sewage treatment facilities was carried out prior to the audit period. A site inspection undertaken by the EPA in 2016 did not raise any issues concerning sewage treatment.
33 (b)	minimise the waste generated by the development;	Compliant	Observations. Advice from Environmental Officer.	Waste minimisation is targeted through daily/weekly/monthly site inspections of the waste management and recycling system and the discussion of waste management issues during toolbox meetings.  Appropriate waste bin labelling and the inclusion of waste management posters on notice boards were sighted during the site inspection.
34	Except as expressly permitted in an EPL, the Applicant must not receive waste on the site for storage, treatment, processing, reprocessing or disposal.	Compliant	ONR60-2022 ONR61-2022 ONR62-2022 ONR63-2022 ONR64-2022 Advice from Environmental officer.	Annual Reviews for 2019/2020, 2020/2021 and 2021/2022 states that no waste is permitted to be received on site.  No waste was received at the Quarry during the audit period.
<b>LIQUID STORAGE</b>				
35	The Applicant must ensure that all tanks and similar storage facilities (other than for water) are protected by appropriate bunding or other containment, in accordance with the relevant Australian Standards.	Compliant	Observations.	Oil drums stored within a dedicated hydrocarbon storage area in the site workshop area and the diesel fuel tank and waste oil tanks were appropriately bunded.
<b>DANGEROUS GOODS</b>				
36	The Applicant must ensure that the storage, handling, and transport of dangerous goods is done in accordance with the relevant Australian Standards, particularly AS1940 and AS1596, and the Dangerous Goods Code.	Compliant	Observations.	The storage, handling and transport of dangerous goods within the Quarry site was generally observed to have been conducted in accordance with the relevant standards.

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Cond. No.	Conditional Requirement	Compliance Status	Basis for Compliance	Comments and Recommended Actions
<b>SCHEDULE 3 – SPECIFIC ENVIRONMENTAL CONDITIONS (Cont'd)</b>				
<b>BUSHFIRE</b>				
37	The Applicant must:			
37 (a)	ensure that the development is suitably equipped to respond to any fires on site; and	Compliant	Observations. Sighted Fire Extinguisher service records. Advice from Managing Director.	Fire extinguishers provided at various locations throughout the Quarry site and maintained regularly. The water cart is equipped to support firefighting operations, if required.
37 (b)	assist the Rural Fire Service and emergency services to the extent practicable if there is a fire in the vicinity of the site.	Compliant	Advice from Environmental Officer.	Dixon Sand enabled staff who are volunteer fire fighters to take community service leave in order to assist the RFS in bushfire fighting during the 2019 – 2020 bushfire period. The Quarry is equipped with watercart and Storz fitting which can assist RFS appliance during water draughting and tank filling. These features were required by Emergency Services or the RFS during the audit period. The Quarry Management participate in annual meetings with the RFS representative to review the severity of the forecasted bushfire season for the coming year, risk management of Quarry operations associated with bushfire response, review of the changes to the mitigation measures in the bushfire management plans, water sources for firefighting.
<b>PUBLIC SAFETY</b>				
38	The Applicant must implement appropriate measures, in consultation with DRG and Maroota Public School, to ensure public safety and restrict unsupervised access of school children to the quarry site. Those measures must include the erection of safety fencing around the highwall of the quarry or at the school boundary as well as the fencing referred to in condition 16 of Schedule 2.	Compliant	Observations. Advice from Managing Director.	Fencing of the Maroota Public School boundary was completed by Maroota Public School prior to 2016 following consultation with DRG and Dixon Sand.

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Cond. No.	Conditional Requirement	Compliance Status	Basis for Compliance	Comments and Recommended Actions
<b>SCHEDULE 4 – ADDITIONAL PROCEDURES</b>				
<b>Notification of Landowners</b>				
1	As soon as practicable, and no longer than 7 days, after obtaining monitoring results showing:	<b>Non-compliant</b>	ONR60-2022 ONR61-2022 ONR62-2022 Advice from Environmental Officer	An exceedance of the relevant noise criteria under Schedule 3 was recorded during attended noise monitoring undertaken on 3 December 2019. The cause of this exceedance (trial use of a diamond tipped configured blade during the shoulder period) was addressed immediately and no supplementary noise monitoring was required.  Maroota Public School was notified of the attended noise monitoring results, however, other affected landowners (R3, R4 and R5) were not notified of the exceedance in writing within 7 days of obtaining the monitoring results. <b>See Recommendation R11/2022.</b>
1 (a)	an exceedance of any criteria in Schedule 3, the Applicant must notify the affected landowners in writing of the exceedance, and provide regular monitoring results, at least every 3 months, to each affected landowner until the development is again complying with the relevant criteria; and			
1 (b)	an exceedance of any air quality criteria in Schedule 3, the Applicant must send a copy of the NSW Health fact sheet entitled "Mine Dust and You" (as may be updated from time to time) to the affected landowners and current tenants of the land (including the tenants of land which is not privately-owned).	Not Triggered	ONR60-2022 ONR61-2022 ONR62-2022 ONR63-2022 ONR64-2022	No Quarry-related exceedances of air quality criteria were recorded during the audit period.
<b>Independent Review</b>				
2	<p>If a landowner considers the development to be exceeding the relevant criteria in Schedule 3, they may ask the Secretary in writing for an independent review of the impacts of the development on their land.</p> <p>If the Secretary is not satisfied that an independent review is warranted, the Secretary will notify the landowner in writing of that decision, and the reasons for that decision, within 21 days of the request for a review.</p> <p>If the Secretary is satisfied that an independent review is warranted, within 3 months, or as otherwise agreed by the Secretary and the landowner, of the Secretary's decision, the Applicant must:</p>	Not Triggered	-	No landowner requested an independent review of impacts associated with the Quarry during the audit period.

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Cond. No.	Conditional Requirement	Compliance Status	Basis for Compliance	Comments and Recommended Actions
SCHEDULE 4 – ADDITIONAL PROCEDURES				
Independent Review (Cont'd)				
2 (a)	commission a suitably qualified, experienced and independent person, whose appointment has been approved by the Secretary, to: <ul style="list-style-type: none"><li>consult with the landowner to determine his/her concerns;</li><li>conduct monitoring to determine whether the development is complying with the relevant criteria in Schedule 3; and</li><li>if the development is not complying with these criteria, then identify measures that could be implemented to ensure compliance with the relevant criteria; and</li></ul>			
2 (b)	give the Secretary and landowner a copy of the independent review; and			
2 (c )	comply with any written requests made by the Secretary to implement any findings of the review.			
SCHEDULE 5 – ENVIRONMENTAL MANAGEMENT, REPORTING AND AUDITING				
ENVIRONMENTAL MANAGEMENT				
Environmental Management Strategy				
1	The Applicant must prepare an Environmental Management Strategy for the development to the satisfaction of the Secretary. This strategy must:	Compliant	ONR08-2022 ONR81-2022	The site currently operates in accordance with the EMS dated April 2020 and approved by the (then) DPIE 22 November 2020.
1 (a)	be submitted to the Secretary for approval within 3 months of the approval of Modification 5;	Compliant	ONR37-2019 ONR53-2019 ONR81-2022 Advice from Environmental Officer.	The original EMS was submitted to DPE on 16 February 2018. The EMS was resubmitted to DPE on 31 May 2018 following comments from DPE. The EMS was approved on 31 May 2018.  It is noted that the current version of the EMS (dated April 2020) was approved on 22 November 2020.
1 (b)	provide the strategic framework for environmental management of the development;	Compliant	ONR08-2022	The EMS provides the strategic framework for the Quarry.
1 (c)	identify the statutory approvals that apply to the development;	Compliant	ONR08-2022	Section 2 of the EMS outlines the statutory approvals applicable to the Quarry.

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Cond. No.	Conditional Requirement	Compliance Status	Basis for Compliance	Comments and Recommended Actions
<b>SCHEDULE 5 – ENVIRONMENTAL MANAGEMENT, REPORTING AND AUDITING (Cont'd)</b>				
<b>ENVIRONMENTAL MANAGEMENT (Cont'd)</b>				
<b>Environmental Management Strategy (Cont'd)</b>				
1 (d)	describe the role, responsibility, authority and accountability of all key personnel involved in the environmental management of the development;	Compliant	ONR08-2022	Section 4 of the EMS identifies management roles and responsibilities for key Quarry personnel.
1 (e)	describe the procedures to be implemented to: <ul style="list-style-type: none"> <li>• keep the local community and relevant agencies informed about the operation and environmental performance of the development;</li> <li>• receive, record, handle and respond to complaints;</li> <li>• resolve any disputes that may arise during the course of the development;</li> <li>• respond to any non-compliance;</li> <li>• respond to emergencies; and</li> </ul>	Compliant	ONR08-2022	Sections 7, 8 and 11 of the EMS provide descriptions of reporting, complaints handling, dispute resolution, non-compliance response and emergency response procedures.
1 (f)	include a Community Relations Plan, developed in consultation with Council, the CCC, and the Maroota Public School, which includes: <ul style="list-style-type: none"> <li>• identification of stakeholders potentially affected by the development;</li> <li>• detailed strategies to ensure open communication between the Applicant, the community and Maroota Public School;</li> <li>• detailed strategies to monitor and evaluate social impacts of the development on the local community and Maroota Public School; and</li> <li>• measures to improve community relations including: <ul style="list-style-type: none"> <li>– quarry open days and education sessions to promote better understanding of quarry operations in the wider community;</li> <li>– participation in community activities; and</li> <li>– strategies involving in-kind exchanges of expertise and resources for activities such as bush regeneration, Landcare, Streamwatch, and other community-based environmental programs;</li> </ul> </li> </ul>	Compliant	ONR09-2022	The Community Relations Plan identifies relevant stakeholders, details communication strategies and outlines social impact monitoring strategies. Sections 3.2.2 and 4 detail measures to improve community relations including open days, participation in community events, and cooperation with community groups.

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Cond. No.	Conditional Requirement	Compliance Status	Basis for Compliance	Comments and Recommended Actions
<b>SCHEDULE 5 – ENVIRONMENTAL MANAGEMENT, REPORTING AND AUDITING (Cont'd)</b>				
<b>ENVIRONMENTAL MANAGEMENT (Cont'd)</b>				
<b>Environmental Management Strategy (Cont'd)</b>				
1 (g)	include: <ul style="list-style-type: none"> <li>copies of any strategies, plans and programs approved under the conditions of this consent; and</li> <li>a clear plan depicting all the monitoring to be carried out under the conditions of this consent.</li> </ul>	Compliant	ONR08-2022 ONR10-2022	All strategies, plans and programs are included as appendices to the EMS. Monitoring is detailed in each plan under the EMS, with monitoring locations depicted in the Environmental Monitoring Plan (Appendix 4).
	The Applicant must implement any Environmental Management Strategy as approved by the Secretary.	Compliant	ONR08-2022	The site currently operates in accordance with the EMS dated April 2020.
<b>Evidence of Consultation</b>				
2	Where consultation with any State or local agency is required by the conditions of this consent, the Applicant must:	Compliant	ONR08-2022 ONR04-2022	Consultation is included in the EMS and as appendices to the relevant plans. Consultation is discussed in the relevant plans.
2 (a)	consult with the relevant agency prior to submitting the required document to the Secretary for approval;		ONR05-2022 ONR06-2022	
2 (b)	submit evidence of this consultation as part of the relevant document;	Compliant	ONR07-2022 ONR09-2022	
2 (c)	describe how matters raised by the agency have been addressed and any matters not resolved; and	Compliant	ONR11-2022	
2 (d)	include details of any outstanding issues raised by the agency and an explanation of disagreement between any agency and the Applicant.	Compliant		
<b>Management Plan Requirements</b>				
3	The Applicant must ensure that the management plans required under this consent are prepared in accordance with any relevant guidelines, and include:	Compliant	ONR12-2022 ONR08-2022 ONR04-2022	Plans contain all identified components, where relevant. Appendix 1 of the EMS provides a Plan Preparation Checklist and Certification confirming plan component inclusion.
3 (a)	detailed baseline data;	Compliant	ONR05-2022	
3 (b)	"a description of: <ul style="list-style-type: none"> <li>the relevant statutory requirements (including any relevant approval, licence or lease conditions);</li> <li>any relevant limits or performance measures/criteria; and</li> <li>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;"</li> </ul>	Compliant	ONR06-2022 ONR07-2022 ONR09-2022 ONR11-2022	



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Cond. No.	Conditional Requirement	Compliance Status	Basis for Compliance	Comments and Recommended Actions
<b>SCHEDULE 5 – ENVIRONMENTAL MANAGEMENT, REPORTING AND AUDITING (Cont'd)</b>				
<b>ENVIRONMENTAL MANAGEMENT (Cont'd)</b>				
<b>Management Plan Requirements (Cont'd)</b>				
3 (c)	a description of the measures that to be implemented to comply with the relevant statutory requirements, limits, or performance measures/criteria;	Compliant		
3 (d)	a program to monitor and report on the: <ul style="list-style-type: none"> <li>impacts and environmental performance of the development; and</li> <li>effectiveness of any management measures (see (c) above);</li> </ul>	Compliant		
3 (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;	Compliant		
3 (f)	a program to investigate and implement ways to improve the environmental performance of the development over time;	Compliant		
3 (g)	a protocol for managing and reporting any: <ul style="list-style-type: none"> <li>incidents;</li> <li>complaints;</li> <li>non-compliances with statutory requirements; and</li> <li>exceedances of the impact assessment criteria and/or performance criteria; and</li> </ul>	Compliant		
3 (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>	Compliant		
<b>Application of Existing Strategies, Plans and Programs</b>				
4	The Applicant must continue to apply existing management plans, strategies or monitoring programs approved prior to the approval of Modification 5, until the approval of a similar plan, strategy or program following the approval of Modification 5.	Compliant	Advice from Environmental Officer. Observations.	The Quarry is managed in accordance with approved management plans.

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Cond. No.	Conditional Requirement	Compliance Status	Basis for Compliance	Comments and Recommended Actions
<b>SCHEDULE 5 – ENVIRONMENTAL MANAGEMENT, REPORTING AND AUDITING (Cont'd)</b>				
<b>ENVIRONMENTAL MANAGEMENT (Cont'd)</b>				
<b>Revision of Strategies, Plans &amp; Programs</b>				
5	Within 3 months of the submission of an:	Non-compliant	ONR82-2022 ONR83-2022 ONR84-2022 Advice from Environmental Officer.	<p>The following incidents were recorded during the audit period.</p> <ul style="list-style-type: none"> <li>3/12/2019 – Noise exceedance during shoulder period.</li> <li>16/06/2020 – Uncontrolled discharge at LDP01.</li> <li>30/11/2020 – Rolling 24-hour PM10 exceedance (not Quarry-related).</li> <li>25/04/2021 – Rolling 24-hour PM10 exceedance (not Quarry-related).</li> <li>18/06/2021 – Exceedance of daytime noise criteria (not a non-compliance).</li> </ul> <p>The Environmental Officer advises that the relevant strategies, plans and programs were reviewed following each incident. However, no record of notification to DPE of these reviews within 3 months following submission of each incident report was provided. (See <b>Recommendation R10/2022</b>).</p> <p>Management strategies and plans were reviewed within the applicable timeframes following submission of the 2019/2020 and 2020/2021 Annual Reviews. The period for review following submission of the 2021/2022 Annual Review had not elapsed during the audit period.</p> <p>Management strategies and plans were reviewed within the applicable timeframes following submission of the 2019 IEA. No Modifications to the consent were made during the audit period.</p>
5 (a)	incident report under condition 10 below;			
5 (b)	Annual review under condition 12 below;			
5 (c)	Independent Environmental Audit report under condition 14 below; and	Compliant		
5 (d)	any modifications to this consent, the Applicant must review the strategies, plans and programs required under this consent, to the satisfaction of the Secretary. The Applicant must notify the Department in writing of any such review being undertaken. Where this review leads to revisions in any such document, then within 6 weeks of the review the revised document must be submitted for the approval of the Secretary.	Compliant		
		Not Triggered		
	<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>	-	-	Noted.

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Cond. No.	Conditional Requirement	Compliance Status	Basis for Compliance	Comments and Recommended Actions
<b>SCHEDULE 5 – ENVIRONMENTAL MANAGEMENT, REPORTING AND AUDITING (Cont'd)</b>				
<b>ENVIRONMENTAL MANAGEMENT (Cont'd)</b>				
<b>Updating and Staging of Strategies, Plans and Programs</b>				
6	<p>To ensure that strategies, plans or programs required under this consent are updated on a regular basis, and that they incorporate any appropriate additional measures to improve the environmental performance of the development, the Applicant may at any time submit revised strategies, plans or programs for the approval of the Secretary. With the agreement of the Secretary, the Applicant may also submit any strategy, plan or program required by this consent on a staged basis.</p> <p>The Secretary may approve a revised strategy, plan or program required under this consent, or the staged submission of any of these documents, at any time. With the agreement of the Secretary, the Applicant may prepare the revised or staged strategy, plan or program without undertaking consultation with all parties nominated under the applicable condition in this consent.</p> <p>While any strategy, plan or program may be submitted on a staged basis, the Applicant will need to ensure that the operations associated with the development are covered by suitable strategies, plans or programs at all times.</p> <p>If the submission of any strategy, plan or program is to be staged; then the relevant strategy, plan or program must clearly describe the specific stage/s of the development to which the strategy, plan or program applies; the relationship of this stage/s to any future stages; and the trigger for updating the strategy, plan or program.</p>	-	-	Noted.

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Cond. No.	Conditional Requirement	Compliance Status	Basis for Compliance	Comments and Recommended Actions
<b>SCHEDULE 5 – ENVIRONMENTAL MANAGEMENT, REPORTING AND AUDITING (Cont'd)</b>				
<b>ENVIRONMENTAL MANAGEMENT (Cont'd)</b>				
<b>Adaptive Management</b>				
7	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 as soon as becoming aware of any exceedance:	<b>Non-compliant</b>	ONR60-2022 ONR61-2022 ONR62-2022 ONR63-2022 ONR64-2022	The following incidents represent Quarry-related exceedances of criteria and/or performance measures during the audit period. <ul style="list-style-type: none"> <li>3/12/2019 – Noise exceedance during shoulder period.</li> <li>16/06/2020 – Uncontrolled discharge at LDP01.</li> <li>18/06/2021 – Exceedance of daytime noise criteria (not a non-compliance under NSW Noise Policy for Industry guidelines).</li> </ul> See <b>Recommendation ONR R12/2022</b> . See <b>Improvement ONR R8/2022</b> .  The period between the identification of the uncontrolled discharge incident on 16 June 2020 and the notification and provision of an incident report to the (then) DPIE was 24 days. All other incidents were notified to DPE within 14 days of the incident (or within 14 days of receiving monitoring results identifying an incident had occurred). See <b>Recommendation ONR R11/22</b> .
7 (a)	take all reasonable and feasible steps to ensure that the exceedance ceases and does not reoccur;	Compliant		
7 (b)	consider all reasonable and feasible options for remediation (where relevant);	Compliant		
7 (c)	within 14 days of the exceedance occurring, submit a report to the Secretary describing these remediation options and any preferred remediation measures or other course of action; and	<b>Non-compliant</b>		
7 (d)	implement remediation measures as directed by the Secretary; to the satisfaction of the Secretary.	Compliant		
<b>Community Consultative Committee</b>				
8	The Applicant must establish and operate a Community Consultative Committee (CCC) for the development to the satisfaction of the Secretary. The CCC must be established by 10 October 2018 and operated in general accordance with the Department's Community Consultative Committee Guidelines, November 2016 (or later version).	Compliant	ONR41-2019.	Approval from DPE on 1 March 2018 to maintain the existing CCC arrangement.

Table A4-1 (Cont'd)  
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Cond. No.	Conditional Requirement	Compliance Status	Basis for Compliance	Comments and Recommended Actions
<b>SCHEDULE 5 – ENVIRONMENTAL MANAGEMENT, REPORTING AND AUDITING (Cont'd)</b>				
<b>ENVIRONMENTAL MANAGEMENT (Cont'd)</b>				
<b>Community Consultative Committee (Cont'd)</b>				
8 Cont'd	<p><i>Notes:</i></p> <ul style="list-style-type: none"> <li><i>The CCC is an advisory committee. The Department and other relevant agencies are responsible for ensuring that the Applicant complies with this consent.</i></li> <li><i>In accordance with the guidelines, the Committee should comprise an independent chair and appropriate representation from the Applicant, Council and the local community.</i></li> <li><i>The CCC established and operated prior to the approval of Modification 5 must continue to be operated in accordance with the procedures required by the consent prior to the approval of Modification 5 until such time as the CCC required by this condition is established.</i></li> </ul>			
<b>Reporting</b>				
<b>Incident Reporting</b>				
9	The Applicant must immediately notify the Secretary (using the contact name, email address and phone number provided by the Department from time to time) and any other relevant agencies of any incident.	Compliant	ONR60-2022 ONR61-2022 ONR62-2022 ONR63-2022 ONR64-2022 Advice from Environmental Officer.	Reportable incidents were notified to DPE and relevant agencies within appropriate timeframes during the reporting period. The Company appears to proactively assess and manage risks to reduce the potential for exceedances or impacts.

Table A4-1 (Cont'd)  
Compliance Review – Development Consent DA 250-09-01

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Cond. No.	Conditional Requirement	Compliance Status	Basis for Compliance	Comments and Recommended Actions
<b>SCHEDULE 5 – ENVIRONMENTAL MANAGEMENT, REPORTING AND AUDITING (Cont'd)</b>				
<b>ENVIRONMENTAL MANAGEMENT (Cont'd)</b>				
<b>Reporting (Cont'd)</b>				
<b>Incident Reporting (Cont'd)</b>				
10	Within 7 days of the date of the incident, the Applicant must provide the Secretary and any relevant agencies with a detailed report on the incident, and such further reports as may be requested. This report must include the time and date of the incident, details of the incident, measures implemented to prevent re-occurrence and must identify any non-compliance with this consent.	<b>Non-compliant</b>	As above	<p>The following incidents occurred at the Quarry during the audit period.</p> <ul style="list-style-type: none"> <li>3/12/2019 – Noise exceedance during shoulder period. <ul style="list-style-type: none"> <li>Noise monitoring report received by Dixon Sand on 10/12/2019.</li> <li>Preliminary notification to DPIE on 13/12/2019.</li> <li>Reported to the EPA on 17/12/2019.</li> <li>Full incident report to DPIE on 16/12/2019.</li> <li>Full incident report to the EPA on 17/12/2019.</li> </ul> </li> <li>16/06/2020 – Uncontrolled discharge at LDP01. <ul style="list-style-type: none"> <li>Incident notified to DPIE and full incident report provided on 30/06/2020</li> <li>Full incident provided to the EPA on 30/06/2020.</li> <li>Supplementary information provided to the EPA on 8/07/2020.</li> </ul> </li> <li>30/11/2020 – Rolling 24-hour PM10 exceedance (not Quarry-related). <ul style="list-style-type: none"> <li>Exceedance reported to the EPA on 30/11/2020.</li> </ul> </li> <li>25/04/2021 – Rolling 24-hour PM10 exceedance (not Quarry-related). <ul style="list-style-type: none"> <li>Exceedance notified and reported to the EPA and DPIE on 26/04/2021.</li> </ul> </li> </ul>

Table A4-1 (Cont'd)  
Compliance Review – Development Consent DA 250-09-01

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Cond. No.	Conditional Requirement	Compliance Status	Basis for Compliance	Comments and Recommended Actions
<b>SCHEDULE 5 – ENVIRONMENTAL MANAGEMENT, REPORTING AND AUDITING (Cont'd)</b>				
<b>ENVIRONMENTAL MANAGEMENT (Cont'd)</b>				
<b>Reporting (Cont'd)</b>				
<b>Incident Reporting (Cont'd)</b>				
10. Cont'd				<ul style="list-style-type: none"> <li>18/06/2021 – Exceedance of daytime noise criteria (not a non-compliance). <ul style="list-style-type: none"> <li>Noise monitoring report received by Dixon Sand on 25/06/2021.</li> <li>Incident notified to DPIE and the EPA on 28/06/2021.</li> <li>Supplementary information provided to the EPA on 7/07/2021.</li> </ul> </li> </ul> <p>The period between the identification of the uncontrolled discharge incident on 16 June 2020 and the notification and provision of an incident report to the (then) DPIE was 24 days. See <b>Recommendation R11/2022</b>.</p>
<b>Regular Reporting</b>				
11	The Applicant must provide regular reporting on the environmental performance of the development on its website, in accordance with the reporting arrangements in any plans or programs approved under the conditions of this consent.	Compliant	Dixon Sand Website	Regular reporting is provided on the Company's website for environmental monitoring, complaints and truck movements. Copies of Annual Reviews and other relevant reports are also published.
<b>Annual Review</b>				
12	By the end of March each year, or other timing as may be agreed by the Secretary, the Applicant must submit a review to the Department reviewing the environmental performance of the development to the satisfaction of the Secretary. This review must:	Compliant	Advice from Environmental Officer. ONR85-2022 ONR86-2022 ONR64-2022	Dixon Sand has received approval from DPE to submit Annual Reviews by 30 September each year (letter dated 9 February 2018). Annual Reviews during the audit period (2019/2020, 2020/2021 and 2021/2022) were submitted by 30 September each year.
12 (a)	describe the development (including any progressive 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;	Compliant	ONR60-2022 ONR61-2022 ONR62-2022 ONR63-2022 ONR64-2022	Annual reviews during the audit period describe development and rehabilitation activities during the reporting period as well as proposed activities during the next reporting period.

Table A4-1 (Cont'd)  
Compliance Review – Development Consent DA 250-09-01

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Cond. No.	Conditional Requirement	Compliance Status	Basis for Compliance	Comments and Recommended Actions
<b>SCHEDULE 5 – ENVIRONMENTAL MANAGEMENT, REPORTING AND AUDITING (Cont'd)</b>				
<b>ENVIRONMENTAL MANAGEMENT (Cont'd)</b>				
<b>Reporting (Cont'd)</b>				
<b>Annual Review (Cont'd)</b>				
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: <ul style="list-style-type: none"> <li>relevant statutory requirements, limits or performance measures/criteria;</li> <li>requirements of any plan or program required under this consent;</li> <li>monitoring results of previous years; and</li> <li>relevant predictions in the documents listed in condition 2(a) of Schedule 2;</li> </ul>	Compliant		Annual reviews during the audit period include a review of monitoring results and a comparison of these results against relevant criteria, plans, results from previous years, and predictions listed in relevant previous assessments.
12 (c)	evaluate and report on: <ul style="list-style-type: none"> <li>the effectiveness of the air quality and noise management systems; and</li> <li>compliance with the performance measures, criteria and operating conditions in this consent.</li> </ul>	Compliant		Annual reviews during the audit period evaluate the effectiveness of management systems and impacts associated with air and noise emissions with reference to relevant criteria and operating conditions.
12 (d)	identify any non-compliance over the past calendar year, and describe what actions were (or are being) taken to ensure compliance;	Compliant		Non-compliances and follow up actions (if required) are discussed in the annual reviews during the audit period.
12 (e)	identify any trends in the monitoring data over the life of the development;	Compliant		Trends in historical monitoring data are discussed in the annual reviews during the audit period.
12 (f)	identify any discrepancies between the predicted and actual impacts of the development, and analyse the potential cause of any significant discrepancies;	Compliant		Discrepancies between predicted and actual impacts of the development are discussed in annual reviews during the audit period.
12 (g)	describe what measures will be implemented over the current calendar year to improve the environmental performance of the development.	Compliant		Changes to environmental procedures (if any) are identified in annual reviews for the audit period.



Table A4-1 (Cont'd)  
Compliance Review – Development Consent DA 250-09-01

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Cond. No.	Conditional Requirement	Compliance Status	Basis for Compliance	Comments and Recommended Actions
<b>SCHEDULE 5 – ENVIRONMENTAL MANAGEMENT, REPORTING AND AUDITING (Cont'd)</b>				
<b>ENVIRONMENTAL MANAGEMENT (Cont'd)</b>				
<b>Reporting (Cont'd)</b>				
<b>Independent Environmental Audit</b>				
13	By the end of November 2019, and every 3 years thereafter, unless the Secretary directs otherwise, the Applicant must commission, commence and pay the full cost of an Independent Environmental Audit of the development. This audit must:	Compliant	This Audit	Previous IEA commenced in October 2019. This audit commenced in October 2022.
13 (a)	be led and conducted by a suitably qualified, experienced and independent team of experts whose appointment has been endorsed by the Secretary	Compliant	Appendix 1	The RWC audit team consisting of Rob Corkery as lead auditor and Jack Flanagan in an assisting role was confirmed by DPE on 8 August 2022.
13 (b)	include consultation with the relevant agencies and the CCC;	Compliant	Appendix 3	Consultation for the audit was undertaken with DPE, BCD, EPA, NRAR, TfNSW, RR, HSC and CCC.
13 (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);	Compliant	This Audit	
13 (d)	review the adequacy of strategies, plans or programs required under the abovementioned approvals;	Compliant	This Audit	
13 (e)	recommend appropriate measures or actions to improve the environmental performance of the development, and/or any assessment, strategy, plan or program required under the abovementioned approvals; and	Compliant	This Audit	
13 (f)	be conducted and reported to the satisfaction of the Secretary.	Not Triggered	This Audit	The satisfaction of the Secretary with this audit report is not yet known.
14	Within 12 weeks of commencing this audit, or as otherwise agreed by the Secretary, the Applicant must submit a copy of the audit report to the Secretary and any other NSW agency that requests it, together with its response to any recommendations contained in the audit report, and a timetable for the implementation of these recommendations as required. The Applicant must implement these recommendations, to the satisfaction of the Secretary.	Compliant		The 2019 IEA was submitted to the (then) DPIE on 13 January 2020, within 12 weeks following the commencement of the 2019 IEA. Submission of this audit and response to the recommendations will occur following the finalisation of this audit.

Table A4-1 (Cont'd)  
Compliance Review – Development Consent DA 250-09-01

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Cond. No.	Conditional Requirement	Compliance Status	Basis for Compliance	Comments and Recommended Actions
SCHEDULE 5 – ENVIRONMENTAL MANAGEMENT, REPORTING AND AUDITING (Cont'd)				
ENVIRONMENTAL MANAGEMENT (Cont'd)				
Reporting (Cont'd)				
Access to Information				
15	Within 3 months of the approval of Modification 5, until the completion of all works, including rehabilitation and remediation the Applicant must:	Compliant	Dixon Sand Website	All relevant approvals, plans, annual reviews, monitoring result summaries, and complaints are available on the Dixon Sand website.
15 (a)	make the following information publicly available on its website: <ul style="list-style-type: none"><li>the documents listed in condition 2(a) of Schedule 2;</li><li>current statutory approvals for the development;</li><li>all approved strategies, plans and programs required under the conditions of this consent;</li><li>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;</li><li>a complaints register, updated monthly;</li><li>the annual reviews of the development;</li><li>any independent environmental audit as described in condition 13 above, and the Applicant's response to the recommendations in any audit; and</li><li>any other matter required by the Secretary; and</li></ul>	Compliant		
15 (b)	keep this information up-to-date, to the satisfaction of the Secretary.	Compliant		

Table A4-2  
Compliance Review – EPL 3916 (Version 1 March 2021)

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Cond. No.	Conditional Requirement	Compliance Status	Basis for Compliance	Comments and Recommended Actions									
1 ADMINISTRATIVE CONDITIONS													
A1 What the licence authorises and regulates													
A1.1	<p>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.</p> <p>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.</p> <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>&gt; 100000 - 500000 T annual processing capacity</td></tr><tr><td>Extractive activities</td><td>Extractive activities</td><td>&gt; 100000 - 500000 T annually extracted or processed</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	Extractive activities	> 100000 - 500000 T annually extracted or processed	Compliant	ONR60-2022 ONR61-2022 ONR62-2022 ONR63-2022 ONR64-2022	<p>During the audit period production remained within the approved limit.</p> <ul style="list-style-type: none"><li>– 2019/2020 = 378 959t</li><li>– 2020/2021 = 425 945.75t</li><li>– 2021/2022 = 449 885.32t</li></ul>
Scheduled Activity	Fee Based Activity	Scale											
Crushing, grinding or separating	Crushing, grinding or separating	> 100000 - 500000 T annual processing capacity											
Extractive activities	Extractive activities	> 100000 - 500000 T annually extracted or processed											
A1.2	<p>Notwithstanding A1.1, the scale of the extractive activities authorised under this licence must not exceed 495,000 tonnes per annum, being the combined production of quarry products from the site, including extractive material sourced from the Haerses Road Sand Quarry as approved by the development consent granted under the <i>Environmental Planning and Assessment Act 1979</i> for the premises specified in A2.</p>	Compliant	ONR60-2022 ONR61-2022 ONR62-2022 ONR63-2022 ONR64-2022	<p>During the audit period production remained within the approved limit.</p> <ul style="list-style-type: none"><li>– 2019/2020 = 378 959t</li><li>– 2020/2021 = 425 945.75t</li><li>– 2021/2022 = 449 885.32t</li></ul> <p><i>Note: the limit has been taken to be 500 000tpa in accordance with the upper scale limit recorded in Condition A1.1</i></p>									

Table A4-2  
Compliance Review – EPL 3916 (Version 1 March 2021)

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Cond. No.	Conditional Requirement	Compliance Status	Basis for Compliance	Comments and Recommended Actions
1 ADMINISTRATIVE CONDITIONS (Cont'd)				
A2 Premises or plant to which this licence applies				
A2.1	<div>The licence applies to the following premises:</div> <div><div>Premises Details</div><div>DIXON SAND PTY LTD</div><div>4610 OLD NORTHERN ROAD</div><div>MAROOKA</div><div>NSW 2756</div><div>LOT 1 DP 547255, LOT 2 DP 547255, LOT 29 DP 752025, LOT 196 DP 752025</div></div> <div>Note: access to the premises is via the Crown Land access road connecting the Old Northern Road and the Quarry.</div>	-	-	Noted.
A2.2	<div>The premises location is shown on the map below.</div> <div></div>	-	-	Noted.

Table A4-2 (Cont'd)  
Compliance Review – EPL 3916 (Version 1 March 2021)

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Cond. No.	Conditional Requirement	Compliance Status	Basis for Compliance	Comments and Recommended Actions																
1 ADMINISTRATIVE CONDITIONS (Cont'd)																				
A3 Information supplied to the EPA																				
A3.1	<p>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.</p> <p>In this condition the reference to "the licence application" includes a reference to:</p> <p>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</p> <p>b) the licence information form provided by the licensee to the EPA to assist the EPA in connection with the issuing of this licence.</p>	Compliant	-	EPL Application not available – originally issued in 2000. As the EPL should be generally consistent with DA 250-09-01, undertaking operations in accordance with the documentation supporting the DA is likely to result in compliance with this requirement. The Company has been assessed as being compliant with the relevant documentation supporting the DA – refer to commentary for DA 250-09-01 <i>Schedule 2 Condition 2</i> .																
2 Discharges to Air and Water and Applications to Land																				
P1 Location of monitoring/discharge points and areas																				
P1.1	<p>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.</p> <table><tr><th colspan="4">Air</th></tr><tr><th>EPA identi- fication no.</th><th>Type of Monitoring Point</th><th>Type of Discharge Point</th><th>Location Description</th></tr><tr><td>2</td><td>Ambient air monitoring</td><td></td><td>Ambient air monitoring site located near the Maroota Public School as marked in "Figure 1.3 - Existing and Proposed Development" provided to the DEC (by Fax) on 30 November 2004</td></tr><tr><td>3</td><td>Meteorological station</td><td></td><td>Meteorological station near Maroota Public School as marked in "Figure 1.3 - Existing and Proposed Development" provided to the DEC (by fax) on 30 November 2004</td></tr></table>	Air				EPA identi- fication no.	Type of Monitoring Point	Type of Discharge Point	Location Description	2	Ambient air monitoring		Ambient air monitoring site located near the Maroota Public School as marked in "Figure 1.3 - Existing and Proposed Development" provided to the DEC (by Fax) on 30 November 2004	3	Meteorological station		Meteorological station near Maroota Public School as marked in "Figure 1.3 - Existing and Proposed Development" provided to the DEC (by fax) on 30 November 2004	-	-	Noted.
Air																				
EPA identi- fication no.	Type of Monitoring Point	Type of Discharge Point	Location Description																	
2	Ambient air monitoring		Ambient air monitoring site located near the Maroota Public School as marked in "Figure 1.3 - Existing and Proposed Development" provided to the DEC (by Fax) on 30 November 2004																	
3	Meteorological station		Meteorological station near Maroota Public School as marked in "Figure 1.3 - Existing and Proposed Development" provided to the DEC (by fax) on 30 November 2004																	
P1.2	<p>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.</p>	-	-	Noted.																

Table A4-2 (Cont'd)  
Compliance Review – EPL 3916 (Version 1 March 2021)

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Cond. No.	Conditional Requirement	Compliance Status	Basis for Compliance	Comments and Recommended Actions								
2 Discharges to Air and Water and Applications to Land (Cont'd)												
P1 Location of monitoring/discharge points and areas (Cont'd)												
P1.3	<p>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.</p> <p style="text-align: center;"><i>Water and land</i></p> <table><tr><th>EPA Identification no.</th><th>Type of Monitoring Point</th><th>Type of Discharge Point</th><th>Location Description</th></tr><tr><td>1</td><td>Discharge to waters. Effluent volume and quality monitoring.</td><td>Discharge to waters. Effluent volume and quality monitoring.</td><td>Main storage dam weir labelled as "2 Water" on map titled 'Figure 1 Location &amp; Discharge Points - Dixon Sand Maroota' received by the EPA on 9/1/01 with Licence Application Form.</td></tr></table>	EPA Identification no.	Type of Monitoring Point	Type of Discharge Point	Location Description	1	Discharge to waters. Effluent volume and quality monitoring.	Discharge to waters. Effluent volume and quality monitoring.	Main storage dam weir labelled as "2 Water" on map titled 'Figure 1 Location & Discharge Points - Dixon Sand Maroota' received by the EPA on 9/1/01 with Licence Application Form.	-	-	Noted.
EPA Identification no.	Type of Monitoring Point	Type of Discharge Point	Location Description									
1	Discharge to waters. Effluent volume and quality monitoring.	Discharge to waters. Effluent volume and quality monitoring.	Main storage dam weir labelled as "2 Water" on map titled 'Figure 1 Location & Discharge Points - Dixon Sand Maroota' received by the EPA on 9/1/01 with Licence Application Form.									
3 Limit Conditions												
L1 Pollution of water												
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.	Non-compliant	ONR60-2022 ONR61-2022 ONR62-2022 Photo 13	<p>Uncontrolled discharge at location LDP01 was observed on 16 June 2020 during an inspection conducted by the NSW EPA. This uncontrolled discharge was the result of overtopping of the Main Dam weir following continued transfer of water from the Twin Ponds during a period when pumps to the processing plant were not operational and the overflow pipe to Cons Hill was shut off.</p> <p>As monitoring was not undertaken prior to discharge to determine compliance with water quality parameters specified under EPL 3916, the uncontrolled discharge event was reported as an incident to the EPA on 30 June 2020. The discharge event lasted for approximately 45 minutes and resulted in the discharge of &lt;5 000L with unknown pollutant (pH and TSS) concentrations. (See <b>Recommendation R12/22</b>).</p> <p>Areas were observed where runoff from the upper surface of the western wall of the Wins Dams had flowed to the west and over the steep slopes on the western side of the Twin Dams and adjoining current overburden stockpile area. In one area, considerable erosion had occurred with runoff potentially being able to flow beyond the western boundary of the Quarry. (See <b>Recommendation R4/22</b>).</p>								

Table A4-2 (Cont'd)  
Compliance Review – EPL 3916 (Version 1 March 2021)

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Cond. No.	Conditional Requirement	Compliance Status	Basis for Compliance	Comments and Recommended Actions																		
3 Limit Conditions (Cont'd)																						
L2 Concentration limits																						
L2.1	For each monitoring/discharge point or utilisation area specified in the table\ s below (by a point number), the concentration of a pollutant discharged at that point, or applied to that area, must not exceed the concentration limits specified for that pollutant in the table.	Non-compliant	ONR54-2022.	The concentration of pollutants in uncontrolled discharge recorded on 16 June 2020 was not quantified. The incident report provided to the EPA notes that water samples from Monitoring Point 1 have historically returned results within the concentration limits specified under L2.4.																		
L2.2	Where a pH quality limit is specified in the table, the specified percentage of samples must be within the specified ranges.	Non-compliant																				
L2.3	To avoid any doubt, this condition does not authorise the pollution of waters by any pollutant other than those specified in the table\ s.	-	-	Noted																		
L2.4	Water and/or Land Concentration Limits POINT 1 <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>pH</td><td>pH</td><td></td><td></td><td></td><td>4.5-6.5</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	pH	pH				4.5-6.5	Total suspended solids	milligrams per litre				50	-	-	Noted
Pollutant	Units of Measure	50 percentile concentration limit	90 percentile concentration limit	3DGM concentration limit	100 percentile concentration limit																	
pH	pH				4.5-6.5																	
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.	Compliant	Advice from Environmental Officer.  ONR60-2022 ONR61-2022 ONR62-2022 ONR63-2022 ONR64-2022	No waste was received at the Quarry site during the audit period.																		

Table A4-2 (Cont'd)  
Compliance Review – EPL 3916 (Version 1 March 2021)

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Cond. No.	Conditional Requirement	Compliance Status	Basis for Compliance	Comments and Recommended Actions
<b>3 Limit Conditions (Cont'd)</b>				
<b>L4 Noise limits</b>				
L4.1	Noise from the premises must not exceed: a) An LAeq(15 minute) noise emission criterion of 44dB(A) between 7.00am to 6.00pm Monday to Saturday; and, b) An LAeq(15 minute) noise emission criterion of 37dB(A) between 6am and 7am Monday to Saturday; at any nearby residence not owned by the licensee.	<b>Non-compliant</b>	ONR60-2022 ONR61-2022 ONR62-2022 ONR63-2022 ONR64-2022	<p>Attended noise monitoring undertaken during the following periods during the audit period identified exceedances of the relevant noise criteria for the Quarry.</p> <ul style="list-style-type: none"> <li>December 2019</li> <li>June 2021</li> </ul> <p>Attended noise monitoring undertaken in December 2019 identified noise criteria exceedances at receivers R3, R4 and R5 during the shoulder period associated with the trialling of a diamond tip configured blade attachment on an excavator used for sandstone cutting. The incident was notified and a written report was provided to the (then) DPIE and the EPA on 16 and 17 December respectively.</p> <p>Attended noise modelling undertaken in June 2021 identified noise criteria exceedances at receivers OR1, OR3, R4 and R5 during the daytime period. This incident was notified to the (then) DPIE and the EPA on 28 June 2021. However, as the noise monitoring results indicated an exceedance of <math>\leq 2</math>dB above the relevant criteria, these exceedances are not considered to represent a non-compliance in accordance with Section 11.1.3 of the NSW Industrial Noise Policy.</p> <p>See <b>Recommendation R8/22.</b></p> <p>Attended noise monitoring undertaken during the following periods during the audit period indicated compliance with the relevant noise criteria for the Quarry.</p> <ul style="list-style-type: none"> <li>June 2020</li> <li>December 2020</li> <li>December 2021</li> <li>June 2022</li> </ul>



Table A4-2 (Cont'd)  
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Cond. No.	Conditional Requirement	Compliance Status	Basis for Compliance	Comments and Recommended Actions
<b>3 Limit Conditions (Cont'd)</b>				
<b>L4 Noise limits (Cont'd)</b>				
L4.2	Noise from the premises must not exceed an LAeq (1 hour) noise emission criterion of 45dB(A) at the most affected classroom of Maroota Public School.	Non-compliant	ONR60-2022 ONR61-2022 ONR62-2022 ONR63-2022 ONR64-2022	Exceedance of the noise criteria at the most affected classroom of Maroota Public School occurred on two occasions during the audit period (see above). See <b>Recommendation R8/22</b> .
L4.3	The noise limits identified in conditions L4.1 & L4.2 apply under meteorological conditions of: a) wind speeds up to 3 metres per second at 10 metres above ground level; and b) temperature inversion conditions up to 30C per 100 metres.	-	-	Noted.
L4.4	For the purpose of assessment of noise levels specified in this licence, noise from the premises shall be measured at: a) the most affected point on or within the receptor site boundary, or at the most affected point within 30 metres of the dwelling where the dwelling is more than 30 metres from the boundary to determine compliance with LAeq(15 minute) noise limits in condition L4.1; and b) 1 metre from the dwelling façade of the most affected classroom to determine compliance with LAeq(1 hour) noise limit in condition L4.2; subject to the modification factors provided in Section 4 of the <i>NSW Industrial Noise Policy</i> (EPA, 2000).	Compliant	ONR60-2022 ONR61-2022 ONR62-2022 ONR63-2022 ONR64-2022	Noise compliance reports included as appendices to Annual Reviews during the audit period identify attended and at source noise monitoring locations, including attended monitoring at Maroota Public School.
L4.5	Notwithstanding condition L4.4, should direct noise measurement from the site be impractical, the licensee may employ alternative noise assessment method deemed acceptable by the EPA (refer to Section 11 of the <i>NSW Industrial Noise Policy</i> (EPA, 2000).	-	-	Noted.
L4.6	Noise limits identified in condition L4.1 do not apply for residential premises where there is a negotiated agreement between the licensee and the landowner of the premises.	Compliant	ONR28-2019	A noise agreement exists between Dixon Sand and residential receiver R2.

Table A4-2 (Cont'd)  
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Cond. No.	Conditional Requirement	Compliance Status	Basis for Compliance	Comments and Recommended Actions
<b>3 Limit Conditions (Cont'd)</b>				
<b>L5 Hours of operation</b>				
L5.1	Unless otherwise approved in writing by the EPA, construction of proposed earth bunds around the Maroota Public School setback perimeter, required for the mitigation of noise and dust, must only be carried out between 7am and 6pm Monday to Friday during school holiday periods.	Not Triggered	Advice from Environmental Officer	Construction of earth bunds around the Maroota Public School setback perimeter has not yet commenced.
L5.2	<p>Loading of trucks and truck movements at the site must only be carried out between 6am and 6pm Monday to Saturday, and at no time on Sundays and Public Holidays.</p> <p>All other activities at the premises covered by this licence must only be carried out between the 7am and 6pm Monday to Saturday, and at no time on Sundays and Public Holidays.</p>	Compliant	<p>Spot check despatch records.</p> <p>ONR60-2022</p> <p>ONR61-2022</p> <p>ONR62-2022</p> <p>ONR63-2022</p> <p>ONR64-2022</p>	<p>A spot check of despatch records undertaken during the site inspection indicated that the Quarry was operating within approved hours.</p> <p>Response to complaint received on 13 May 2022 regarding operation of diesel pumps outside of approved hours indicates that the Quarry was not the source of the noise.</p>
<b>4 Operating Conditions</b>				
<b>O1 Activities must be carried out in a competent manner</b>				
O1.1	<p>Licensed activities must be carried out in a competent manner. This includes:</p> <p>a) the processing, handling, movement and storage of materials and substances used to carry out the activity; and</p> <p>b) the treatment, storage, processing, reprocessing, transport and disposal of waste generated by the activity.</p>	Compliant	Observations.	<p>Storage was generally undertaken in a competent manner with designated storage areas and no evidence of spillage.</p> <p>The processing, handling, movement and storage of substances including hydrocarbons observed during the site inspection was observed to be undertaken in a competent manner.</p>

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Cond. No.	Conditional Requirement	Compliance Status	Basis for Compliance	Comments and Recommended Actions
<b>4 Operating Conditions (Cont'd)</b>				
<b>O2 Maintenance of plant and equipment</b>				
O2.1	All plant and equipment installed at the premises or used in connection with the licensed activity: a) must be maintained in a proper and efficient condition; and b) must be operated in a proper and efficient manner.	Compliant	Observations. Sighted servicing records.	Plant and equipment were observed to be well maintained and operated in a proper and efficient manner during the site inspection. Service records indicate regular maintenance of plant and equipment. The following incidents were reported to the Resources Regulator during the audit period. <ul style="list-style-type: none"> <li>IncNot0041095 (15/11/2021) – FEL rolled during loading operations.</li> <li>IncNot0042164 (13/05/2022) – excavator damage to under slung earth wire (power).</li> <li>IncNot0042306 (3/03/2022) – collapse of retaining wall following heavy rain.</li> </ul> These incidents reports do not suggest a culture of improper or inefficient operation during the audit period.
<b>O3 Dust</b>				
O3.1	The premises must be maintained in a condition which minimises or prevents the emission of dust from the premises.	Compliant	Observations. ONR60-2022 ONR61-2022 ONR62-2022 ONR63-2022 ONR64-2022	It is considered that the site has generally been maintained in a condition which minimises the emission of dust.
O3.2	All dust deposition gauges installed at the site must be operated and maintained in accordance with Australian Standard 2724.1 (1984) for deposition gauges.	Compliant	ONR60-2022 ONR61-2022 ONR62-2022 ONR63-2022 ONR64-2022	VGT Dust Deposition Reports, included as appendices to Annual Reviews, indicate sampling in accordance with AS3580.10.1 (supersedes AS 2724.1).

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Cond. No.	Conditional Requirement	Compliance Status	Basis for Compliance	Comments and Recommended Actions
<b>4 Operating Conditions (Cont'd)</b>				
O3.3	The licensee must install and operate a continuous dust monitoring device, of the type mentioned in the letter of ERM Consultant sent to the EPA on 11 August 2004, at Point 2 identified in condition P1.1 of this licence, before commencing any activity permitted by this licence on Lot 1 & 2 of the premises. The continuous dust monitoring device must be fitted with an automatic alarm system alerting the quarry staff once the trigger value for PM10 (37 µg/m3) is reached.	Compliant	Dixon Sand Website ONR10-2022 ONR60-2022 ONR61-2022 ONR62-2022 ONR63-2022 ONR64-2022 Advice from Environmental Officer.	Dust monitoring records present on Dixon Sand website. Dust monitoring results and calibration reported in Annual Reviews during the reporting period. The location of the monitoring station shown in the Environmental Monitoring Plan is consistent with Point 2 identified in condition P1.1. An automatic alarm system alerts Quarry personnel via text in the event of an exceedance of the relevant trigger value.
O3.4	The licensee must install and operate a continuous automatic meteorological station at monitoring Point 3, identified in condition P1.1 of this licence, as per requirements of AS 2923 - 1987. This wind monitoring components of the meteorological station must be interfaced with the continuous dust monitoring device, identified in the above condition O.3.3.	Compliant	ONR10-2022. ONR60-2022 ONR61-2022 ONR62-2022 ONR63-2022 ONR64-2022 Advice from Environmental Officer.	Meteorological data and calibration of the meteorological station reported in Annual Reviews during the reporting period. Location of monitoring station shown in Environmental Monitoring Plan is consistent with Point 3 identified in condition P1.1. The meteorological station interfaced with the continuous dust monitoring device.
<b>O4 Other operating conditions</b>				
O4.1	The licensee must prevent any tracking of mud on to public roads by vehicles leaving the premises.	Compliant	ONR06-2022 Observation. Advice from Environmental Officer.	No significant tracking of material onto public roads was observed during the site inspection. Checks of accumulated sediment are undertaken on a weekly basis. A sweeper attachment is utilised to remove accumulated sediment on sealed road surfaces following identification.

Table A4-2 (Cont'd)  
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Cond. No.	Conditional Requirement	Compliance Status	Basis for Compliance	Comments and Recommended Actions
<b>5 Monitoring and Recording Conditions</b>				
<b>M1 Monitoring Records</b>				
M1.1	The results of any monitoring required to be conducted by this licence or a load calculation protocol must be recorded and retained as set out in this condition.	Compliant	Dixon Sand Website ONR60-2022 ONR61-2022 ONR62-2022 ONR63-2022 ONR64-2022 Observation.	Monitoring data during the audit period has been recorded as required. A random selection of weighbridge dockets recording loads were sighted during the site inspection.
M1.2	All records required to be kept by this licence must be: a) in a legible form, or in a form that can readily be reduced to a legible form; b) kept for at least 4 years after the monitoring or event to which they relate took place; and c) produced in a legible form to any authorised officer of the EPA who asks to see them.	Compliant	Dixon Sand Website ONR60-2022 ONR61-2022 ONR62-2022 ONR63-2022 ONR64-2022 Observations.	All monitoring records requested were produced in a legible form.
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.	Not Triggered	ONR60-2022 ONR61-2022 ONR62-2022 ONR63-2022 ONR64-2022	Water sampling is undertaken in accordance with the Water Discharge Permit protocol which outlines the appropriate information to be recorded. Meteorological and dust monitoring required under the EPL are continuous and are recorded digitally.
M1.4	The following records for monitoring Point 2 identified in licence condition P1.1, must be kept electronically: a) each 15 minute PM10 result; b) each rolling 24-hour average PM10 results (each 15 minutes); and c) each daily 24-hour average PM10 result (midnight to midnight).	Compliant	Observation.	PM10 monitoring data containing the relevant information was sighted during the site inspection.

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Cond. No.	Conditional Requirement	Compliance Status	Basis for Compliance	Comments and Recommended Actions																
5 Monitoring and Recording Conditions (Cont'd)																				
M1 Monitoring Records (Cont'd)																				
M1.5	The following records for Point 3 identified in licence condition P1.1, must be kept electronically: each 15 minute, 1 hour and 24 hour result as indicated in the table at condition M4.1.	Compliant	Observation.	Meteorological station monitoring data containing the relevant information was sighted during the site inspection.																
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:																			
M2.2	Air Monitoring Requirements  POINT 2 <table><tr><th>Pollutant</th><th>Units of measure</th><th>Frequency</th><th>Sampling Method</th></tr><tr><td>PM10</td><td>micrograms per cubic metre</td><td>Continuous</td><td>Australian Standard 3580.9.8 - 2001</td></tr></table>	Pollutant	Units of measure	Frequency	Sampling Method	PM10	micrograms per cubic metre	Continuous	Australian Standard 3580.9.8 - 2001	Compliant	ONR60-2022 ONR61-2022 ONR62-2022 ONR63-2022 ONR64-2022	Monitoring reports confirm use of correct units, frequency, and sampling method.								
Pollutant	Units of measure	Frequency	Sampling Method																	
PM10	micrograms per cubic metre	Continuous	Australian Standard 3580.9.8 - 2001																	
M2.3	Water and/ or Land Monitoring Requirements  POINT 1 <table><tr><th>Pollutant</th><th>Units of measure</th><th>Frequency</th><th>Sampling Method</th></tr><tr><td>pH</td><td>pH</td><td>Daily during any discharge</td><td>Grab sample</td></tr><tr><td>Total suspended solids</td><td>milligrams per litre</td><td>Daily during any discharge</td><td>Grab sample</td></tr><tr><td>Turbidity</td><td>nephelometric turbidity units</td><td>Daily during any discharge</td><td>Grab sample</td></tr></table>	Pollutant	Units of measure	Frequency	Sampling Method	pH	pH	Daily during any discharge	Grab sample	Total suspended solids	milligrams per litre	Daily during any discharge	Grab sample	Turbidity	nephelometric turbidity units	Daily during any discharge	Grab sample	Non-compliant	ONR60-2022 ONR61-2022 ONR62-2022 ONR63-2022 ONR64-2022 ONR54-2022	Results of water sampling at Point 1 undertaken for planned discharge events confirm the use of correct units, frequency and sampling method.  Monitoring was not undertaken at the correct frequency (i.e. daily during discharge) during the uncontrolled discharge event which occurred on 16 June 2020. See <b>Recommendation R12/2022</b> .
Pollutant	Units of measure	Frequency	Sampling Method																	
pH	pH	Daily during any discharge	Grab sample																	
Total suspended solids	milligrams per litre	Daily during any discharge	Grab sample																	
Turbidity	nephelometric turbidity units	Daily during any discharge	Grab sample																	

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Cond. No.	Conditional Requirement	Compliance Status	Basis for Compliance	Comments and Recommended Actions
<b>5 Monitoring and Recording Conditions (Cont'd)</b>				
<b>M2 Requirement to monitor concentration of pollutants discharged (Cont'd)</b>				
M2.4	<p>"If any rolling 24-hour average PM<sub>10</sub> result measured at Point 2 in licence condition M2.2 is found to be greater than 42µg/m<sup>3</sup> and the prevailing wind at the site is north-westerly, i.e. between 2700 and 3150 as measured at Point 3:</p> <p>a) the licensee must take immediate action to reduce its PM<sub>10</sub> emissions;</p> <p>b) the licensee must immediately notify the EPA Manager Sydney Industry;</p> <p>c) all dust generating activity on lot 1 and 2 must cease immediately, except for activity solely for the purpose of reducing dust impact, such as watering roads, exposed areas and stockpiles or dust monitoring;</p> <p>d) if the dust level does not return to below 42µg/m<sup>3</sup> within 1 hour of ceasing all operations at Lot 1 &amp; 2, then: all dust generating activity on Lot 29 must also stop; and operations must stay restricted to precincts 1, 2, 3, 4, 5, 6, 8 and 9 of Lot 196 (shown in the map faxed to DEC on 25/11/04) only; and</p> <p>e) dust generating activity may only recommence when the rolling 24-hour average PM<sub>10</sub> result measured at Point 2 is less than 42µg/m<sup>3</sup> for 4 consecutive 15 minute periods."</p>	Compliant	<p>ONR60-2022 ONR61-2022 ONR62-2022 ONR63-2022 ONR64-2022</p> <p>Inspected Incident Register and TEOM Alarm Register</p>	<p>Details of incidents recorded in Annual Reviews indicate that appropriate measures were taken during rolling 24-hour average PM<sub>10</sub> incidents (30/11/2020 &amp; 24/04/2021). Incident reports indicate that investigations concluded that exceedances were not Quarry-related (e.g. bushfire smoke) and/or occurred during periods when prevailing winds were not north-westerly.</p>
<b>M3 Testing methods - concentration limits</b>				
M3.1	<p>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.</p>	Not Triggered	<p>ONR60-2022 ONR61-2022 ONR62-2022 ONR63-2022 ONR64-2022</p> <p>Advice from Environmental Officer.</p>	<p>No pollutants are applied to a utilisation area.</p> <p>Monitoring prior to surface water discharges occurred during the audit period in accordance with the Approved Methods as outlined in the SWMP.</p>

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Cond. No.	Conditional Requirement	Compliance Status	Basis for Compliance	Comments and Recommended Actions																														
<b>5 Monitoring and Recording Conditions (Cont'd)</b>																																		
<b>M3 Testing methods - concentration limits (Cont'd)</b>																																		
M3.2	<p>Monitoring for the concentration of a pollutant emitted to the air required to be conducted by this licence must be done in accordance with:</p> <p>a) any methodology which is required by or under the Act to be used for the testing of the concentration of the pollutant; or</p> <p>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</p> <p>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.</p> <p>Note: The <i>Protection of the Environment Operations (Clean Air) Regulation 2010</i> requires testing for certain purposes to be conducted in accordance with test methods contained in the publication "<i>Approved Methods for the Sampling and Analysis of Air Pollutants in NSW</i>".</p>	Compliant	<p>ONR60-2022</p> <p>ONR61-2022</p> <p>ONR62-2022</p> <p>ONR63-2022</p> <p>ONR64-2022</p>	Environmental Monitoring Air Quality reports included within the Annual reviews during the audit period indicate that air quality monitoring and sample analysis has been undertaken in accordance with the relevant approved method and applicable standards.																														
<b>M4 Weather monitoring</b>																																		
M4.1	<p>At the point(s) identified below, the licensee must monitor (by sampling and obtaining results by analysis) the parameters specified in Column 1 of the table below, using the corresponding sampling method, units of measure, averaging period and sampling frequency, specified opposite in the Columns 2, 3, 4 and 5 respectively.</p> <p><b>POINT 3</b></p> <table border="1"> <thead> <tr> <th>Parameter</th><th>Sampling method</th><th>Units of measure</th><th>Averaging period</th><th>Frequency</th></tr> </thead> <tbody> <tr> <td>Temperature at 10 metres</td><td>AM-4</td><td>Degrees</td><td>1 hour</td><td>Continuous</td></tr> <tr> <td>Wind Direction at 10 metres</td><td>AM-2 &amp; AM-4</td><td>-</td><td>15 minutes</td><td>Continuous</td></tr> <tr> <td>Wind Speed at 10 metres</td><td>AM-2 &amp; AM-4</td><td>metres per second</td><td>15 minutes</td><td>Continuous</td></tr> <tr> <td>Sigma theta</td><td>AM-2 &amp; AM-4</td><td>-</td><td>15 minutes</td><td>Continuous</td></tr> <tr> <td>Rainfall</td><td>AM-4</td><td>millimetres</td><td>24 hours</td><td>Continuous</td></tr> </tbody> </table>	Parameter	Sampling method	Units of measure	Averaging period	Frequency	Temperature at 10 metres	AM-4	Degrees	1 hour	Continuous	Wind Direction at 10 metres	AM-2 & AM-4	-	15 minutes	Continuous	Wind Speed at 10 metres	AM-2 & AM-4	metres per second	15 minutes	Continuous	Sigma theta	AM-2 & AM-4	-	15 minutes	Continuous	Rainfall	AM-4	millimetres	24 hours	Continuous	Compliant	<p>ONR60-2022</p> <p>ONR61-2022</p> <p>ONR62-2022</p> <p>ONR63-2022</p> <p>ONR64-2022</p>	Monitoring data contained within monitoring reports included in Annual Reviews during the audit period contain the necessary parameters measured using appropriate sampling methods, units, averaging periods and sampling frequencies.
Parameter	Sampling method	Units of measure	Averaging period	Frequency																														
Temperature at 10 metres	AM-4	Degrees	1 hour	Continuous																														
Wind Direction at 10 metres	AM-2 & AM-4	-	15 minutes	Continuous																														
Wind Speed at 10 metres	AM-2 & AM-4	metres per second	15 minutes	Continuous																														
Sigma theta	AM-2 & AM-4	-	15 minutes	Continuous																														
Rainfall	AM-4	millimetres	24 hours	Continuous																														



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Cond. No.	Conditional Requirement	Compliance Status	Basis for Compliance	Comments and Recommended Actions
<b>5 Monitoring and Recording Conditions (Cont'd)</b>				
<b>M5 Recording of pollution complaints</b>				
M5.1	The licensee must keep a legible record of all complaints made to the licensee or any employee or agent of the licensee in relation to pollution arising from any activity to which this licence applies.	Compliant	Observation. Dixon Sand Website.	Complaints register sighted during site inspection. A summary of the complaints register is provided on the Dixon Sand website.
M5.2	The record must include details of the following: a) the date and time of the complaint; b) the method by which the complaint was made; c) any personal details of the complainant which were provided by the complainant or, if no such details were provided, a note to that effect; d) the nature of the complaint; e) the action taken by the licensee in relation to the complaint, including any follow-up contact with the complainant; and f) if no action was taken by the licensee, the reasons why no action was taken.	Compliant	Observation. Dixon Sand Website. ONR60-2022 ONR61-2022 ONR62-2022 ONR63-2022 ONR64-2022	Complaints are adequately documented and all required details are recorded.
M5.3	The record of a complaint must be kept for at least 4 years after the complaint was made.	Compliant	Observation ONR60-2022 ONR61-2022 ONR62-2022 ONR63-2022 ONR64-2022	Records of complaints are contained within both the on-site complaints register as well as Annual Reviews.
M5.4	The record must be produced to any authorised officer of the EPA who asks to see them.	-	-	Noted.

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Cond. No.	Conditional Requirement	Compliance Status	Basis for Compliance	Comments and Recommended Actions						
5 Monitoring and Recording Conditions (Cont'd)										
M6 Telephone complaints line										
M6.1	The licensee must operate during its operating hours a telephone complaints line for the purpose of receiving any complaints from members of the public in relation to activities conducted at the premises or by the vehicle or mobile plant, unless otherwise specified in the licence.	Compliant	Dixon Sand Website Observation.	Telephone complaints line: (02) 4566 8348  The telephone complaints line is advertised on a sign at the front gate of the Quarry.  Additional contact details also available on the Dixon Sand website.						
M6.2	The licensee must notify the public of the complaints line telephone number and the fact that it is a complaints line so that the impacted community knows how to make a complaint.	Compliant	Complaints Line published on the website and on the front gate sign	Telephone complaints line advertised on the Dixon Sand website.						
M6.3	The preceding two conditions do not apply until 3 months after: the date of the issue of this licence.	-	-	The EPL was in force prior to the audit period.						
M7 Requirement to monitor volume or mass										
M7.1	<p>For each discharge point or utilisation area specified below, the licensee must monitor:</p> <p>a) the volume of liquids discharged to water or applied to the area;</p> <p>b) the mass of solids applied to the area;</p> <p>c) the mass of pollutants emitted to the air;</p> <p>at the frequency and using the method and units of measure, specified below.</p> <p>POINT 1</p> <table><tr><th>Frequency</th><th>Unit of Measure</th><th>Sampling Method</th></tr><tr><td>Daily</td><td>litres</td><td>Flow meter and continuous logger</td></tr></table>	Frequency	Unit of Measure	Sampling Method	Daily	litres	Flow meter and continuous logger	Compliant	ONR60-2022 ONR61-2022 ONR62-2022 ONR63-2022 ONR64-2022 Observation.	A flow meter is fitted to discharge point LDP01.
Frequency	Unit of Measure	Sampling Method								
Daily	litres	Flow meter and continuous logger								

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Cond. No.	Conditional Requirement	Compliance Status	Basis for Compliance	Comments and Recommended Actions
<b>6 Reporting Conditions</b>				
<b>R1 Annual return documents</b>				
R1.1	<p>"The licensee must complete and supply to the EPA an Annual Return in the approved form comprising:</p> <ol style="list-style-type: none"> <li>1. a Statement of Compliance,</li> <li>2. a Monitoring and Complaints Summary,</li> <li>3. a Statement of Compliance - Licence Conditions,</li> <li>4. a Statement of Compliance - Load based Fee,</li> <li>5. a Statement of Compliance - Requirement to Prepare Pollution Incident Response Management Plan,</li> <li>6. a Statement of Compliance - Requirement to Publish Pollution Monitoring Data; and</li> <li>7. a Statement of Compliance - Environmental Management Systems and Practices.</li> </ol> <p>At the end of each reporting period, the EPA will provide to the licensee notification that the Annual Return is due.</p>	Compliant	ONR88-2022 ONR89-2022 ONR90-2022 ONR91-2022 ONR92-2022 ONR93-2022	Annual Returns and submission records provided for 2019/2020, 2020/2021 and 2021/2022.
R1.2	An Annual Return must be prepared in respect of each reporting period, except as provided below.	Compliant	ONR88-2022 ONR90-2022 ONR92-2022	Annual Returns and submission records provided for 2019/2020, 2020/2021 and 2021/2022.
R1.3	<p>Where this licence is transferred from the licensee to a new licensee:</p> <ol style="list-style-type: none"> <li>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</li> <li>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.</li> </ol>	Not Triggered	-	The EPL was not transferred to a new licensee during the audit period.

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Cond. No.	Conditional Requirement	Compliance Status	Basis for Compliance	Comments and Recommended Actions
<b>6 Reporting Conditions (Cont'd)</b>				
<b>R1 Annual return documents (Cont'd)</b>				
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.	Not Triggered	-	The EPL was not surrendered or revoked during the audit period.
R1.5	The Annual Return for the reporting period must be supplied to the EPA via eConnect EPA or by registered post not later than 60 days after the end of each reporting period or in the case of a transferring licence not later than 60 days after the date the transfer was granted (the 'due date').	Compliant	ONR89-2022 ONR91-2022 ONR93-2022	Submission documents and sightings of submission notifications indicate that Annual Returns were submitted within the relevant time periods during the audit 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.	Compliant	Observation. ONR88-2022 ONR90-2022 ONR92-2022	Copies of Annual Returns retained at the Quarry were provided upon request.
R1.7	Within the Annual Return, the Statements of Compliance must be certified and the Monitoring and Complaints Summary must be signed by: a) the licence holder; or b) by a person approved in writing by the EPA to sign on behalf of the licence holder.	Compliant	ONR88-2022 ONR89-2022 ONR90-2022 ONR91-2022 ONR92-2022 ONR93-2022	Annual Returns were submitted via eConnect, with the submission record and notification sighted.
	<i>"Note: The term ""reporting period"" is defined in the dictionary at the end of this licence. Do not complete the Annual Return until after the end of the reporting period.</i> <i>Note: An application to transfer a licence must be made in the approved form for this purpose."</i>	-	-	Noted.

Table A4-2 (Cont'd)  
Compliance Review – EPL 3916 (Version 1 March 2021)

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Cond. No.	Conditional Requirement	Compliance Status	Basis for Compliance	Comments and Recommended Actions
<b>6 Reporting Conditions (Cont'd)</b>				
<b>R2 Notification of environmental harm</b>				
R2.1	Notifications must be made by telephoning the Environment Line service on 131 555.	Not Triggered	ONR60-2022 ONR61-2022 ONR62-2022 ONR63-2022 ONR64-2022	The uncontrolled discharge incident recorded on 16 June 2020 was identified in the presence of an EPA officer. As such, notification via the telephone line was not required. A full incident report was provided to the EPA on 30/06/2020 and supplementary information as provided on 8/07/2020.  No other incidents causing or threatening material harm to the environment were recorded during the reporting period. It is noted that the reported exceedances of the trigger level in Condition L4.1 and Condition M2.4 were not constituted as threatening environmental harm and were therefore notified in accordance with that condition.
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.	<b>Non-compliant</b>	ONR54-2022 ONR60-2022 ONR61-2022 ONR62-2022 ONR63-2022 ONR64-2022	The following incidents occurred at the Quarry during the audit period. <ul style="list-style-type: none"> <li>3/12/2019 – Noise exceedance during shoulder period. <ul style="list-style-type: none"> <li>Noise monitoring report received by Dixon Sand on 10/12/2019.</li> <li>Preliminary notification to DPIE on 13/12/2019.</li> <li>Reported to the EPA on 17/12/2019.</li> <li>Full incident report to DPIE on 16/12/2019.</li> <li>Full incident report to the EPA on 17/12/2019.</li> </ul> </li> <li>16/06/2020 – Uncontrolled discharge at LDP01. <ul style="list-style-type: none"> <li>Incident notified to DPIE and full incident report provided on 30/06/2020</li> <li>Full incident provided to the EPA on 30/06/2020.</li> <li>Supplementary information provided to EPA on 8/07/2020.</li> </ul> </li> </ul>

Table A4-2 (Cont'd)  
Compliance Review – EPL 3916 (Version 1 March 2021)

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Cond. No.	Conditional Requirement	Compliance Status	Basis for Compliance	Comments and Recommended Actions
<b>6 Reporting Conditions (Cont'd)</b>				
<b>R2 Notification of environmental harm (Cont'd)</b>				
R2.2 (Cont'd)				<ul style="list-style-type: none"> <li>30/11/2020 – Rolling 24-hour PM10 exceedance (not Quarry-related). <ul style="list-style-type: none"> <li>Exceedance reported to the EPA on 30/11/2020.</li> </ul> </li> <li>25/04/2021 – Rolling 24-hour PM10 exceedance (not Quarry-related). <ul style="list-style-type: none"> <li>Exceedance notified and reported to the EPA and DPIE on 26/04/2021.</li> </ul> </li> <li>18/06/2021 – Exceedance of daytime noise criteria (not a non-compliance). <ul style="list-style-type: none"> <li>Noise monitoring report received by Dixon Sand on 25/06/2021.</li> <li>Incident notified to DPIE and the EPA on 28/06/2021.</li> <li>Supplementary information provided to the EPA on 7/07/2021.</li> </ul> </li> </ul> <p>The period between the identification of the uncontrolled discharge incident on 16 June 2020 and the provision of a written incident report to the EPA was 24 days.</p> <p>See <b>Recommendation R11/2022</b>.</p>
	<i>Note: The licensee or its employees must notify all relevant authorities of incidents causing or threatening material harm to the environment immediately after the person becomes aware of the incident in accordance with the requirements of Part 5.7 of the Act.</i>	Compliant	ONR60-2022 ONR61-2022 ONR62-2022 ONR63-2022 ONR64-2022 Advice from Environmental Officer.	<p>The uncontrolled discharge incident recorded on 16 June 2020 was identified in the presence of an EPA officer. As such, no further notification was considered necessary. A full incident report was provided to the EPA on 30/06/2020 and supplementary information as provided on 8/07/2020.</p> <p>No other incidents causing or threatening material harm to the environment were recorded during the reporting period.</p>

Table A4-2 (Cont'd)  
Compliance Review – EPL 3916 (Version 1 March 2021)

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Cond. No.	Conditional Requirement	Compliance Status	Basis for Compliance	Comments and Recommended Actions
<b>6 Reporting Conditions (Cont'd)</b>				
<b>R3 Written report</b>				
R3.1	Where an authorised officer of the EPA suspects on reasonable grounds that: a) where this licence applies to premises, an event has occurred at the premises; or b) where this licence applies to vehicles or mobile plant, an event has occurred in connection with the carrying out of the activities authorised by this licence, and the event has caused, is causing or is likely to cause material harm to the environment (whether the harm occurs on or off premises to which the licence applies), the authorised officer may request a written report of the event.	-	-	Noted.
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.	Compliant	Advice from Environmental Officer.	All incidents reports provided to the EPA during the audit period contained adequate details regarding the nature and response to incidents. Supplementary information regarding incidents was provided to the EPA upon request.
R3.3	The request may require a report which includes any or all of the following information: a) the cause, time and duration of the event; b) the type, volume and concentration of every pollutant discharged as a result of the event; c) the name, address and business hours telephone number of employees or agents of the licensee, or a specified class of them, who witnessed the event; d) the name, address and business hours telephone number of every other person (of whom the licensee is aware) who witnessed the event, unless the licensee has been unable to obtain that information after making reasonable effort; e) action taken by the licensee in relation to the event, including any follow-up contact with any complainants; f) details of any measure taken or proposed to be taken to prevent or mitigate against a recurrence of such an event; and g) any other relevant matters.	Compliant	Advice from Environmental Officer.	The uncontrolled discharge incident recorded on 16 June 2020 was identified in the presence of an EPA officer. A full incident report was provided to the EPA on 30/06/2020 and supplementary information was provided on 8/07/2020. An EPA officer did not request a written report of any other event during the audit period.

Table A4-2 (Cont'd)  
Compliance Review – EPL 3916 (Version 1 March 2021)

Page 22 of 22

Cond. No.	Conditional Requirement	Compliance Status	Basis for Compliance	Comments and Recommended Actions
<b>6 Reporting Conditions (Cont'd)</b>				
<b>R3 Written report (Cont'd)</b>				
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.	Compliant	Advice from Environmental Officer. ONR60-2022	Supplementary information was provided regarding the uncontrolled discharge incident on 8/07/2020 in response to a request from the EPA. No further requests for information were received from the EPA during the audit period.
R3.5	The licensee must submit an air and dust monitoring report to the EPA annually for all dust monitoring gauges installed at the site (identified as D1–Front gate, D4–Western boundary Lot 196, D5–Northern boundary Lot 1, D6–Adjacent Maroota Public School and D7–Adjacent Kunzea conservation area Lot 29), other than the continuous dust gauge installed at Point 2 for activity related to DA 250-09-01 and monitored as per requirements of condition M2.2, containing the air quality monitoring results in the reporting period together with an evaluation of the results, including a comparison with the following ambient dust goal: a) the total dust deposition in the nearest residential area of 4g per square metre per month expressed as an annual monthly average.	Compliant	ONR88-2022 ONR90-2022 ONR92-2022	Annual Returns containing air quality monitoring reports, results and an evaluation of results against relevant criteria were submitted to the EPA for the 2019/2020, 2020/2021 and 2021/2022 periods during the audit period.
<b>7 General Conditions</b>				
<b>G1 Copy of licence kept at the premises or plant</b>				
G1.1	A copy of this licence must be kept at the premises to which the licence applies.	Compliant	Observation.	A hard copy of the EPL was available on site during the site inspection.
G1.2	The licence must be produced to any authorised officer of the EPA who asks to see it.	Compliant		
G1.3	The licence must be available for inspection by any employee or agent of the licensee working at the premises.	Compliant		



Table A4-3  
Compliance Review – WAL 24341

Page 1 of 2

Cond. No.	Conditional Requirement	Compliance Status	Basis for Compliance	Comments and Recommended Actions
<b>Take of water</b>				
MW0929-00001	From 1 July 2018, if the water supply work nominated on this access licence is located at or less than 40m from the top of the high bank of a river then:	Compliant	Advice from Environmental Officer.	It is advised that no water was extracted during the audit period. Therefore, compliance will have been maintained.
	A. water must not be taken in this groundwater source when flows are in the Very Low Flow Class for an unregulated river access licence in that river.	-	-	Noted
	B. This restriction will only apply when the system that confirms when water can be taken is available on the relevant licensor website.	-	-	Noted
MW0919-00001	C. the relevant licensor will inform the licence holder in writing of the applicable restrictions and how to access the information on its website when this system becomes operative.	-	-	Noted
MW0919-00001	A maximum water allocation of 0.1 ML/unit share may be carried over in the account for this access licence from one water year to the next water year if a water meter is installed on each water supply work nominated on this licence and each meter is maintained in working order.	Not Triggered	-	Noted. As no water extraction has occurred no water has been required to carry over.
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.	Not Triggered	Advice from Environmental Officer.	It is advised that no water was extracted during the audit period.
MW0547-00001	The total volume of water taken under this licence in any water year must not exceed a volume equal to:	Compliant	Advice from Environmental Officer.	It is advised that no water was extracted during the audit period. Therefore, compliance will have been maintained.
	A. the sum of water in the account from the available water determination for the current year, plus			
	B. the water carried over in the account from the previous water year, plus			
	C. the net amount of water assigned to or from the account under a water allocation assignment, plus			
	D. any water re-credited by the Minister to the account.			

Table A4-3  
Compliance Review – WAL 24341

Page 2 of 2

Cond. No.	Conditional Requirement	Compliance Status	Basis for Compliance	Comments and Recommended Actions
<b>Monitoring and recording</b>				
MW2338-00001	The completed logbook must be retained for five (5) years from the last date recorded in the logbook.	Not Triggered	Advice from Environmental Officer.	It is advised that no water was extracted during this period.
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.	Not Triggered	Advice from Environmental Officer.	It is advised that no water was extracted during this period.
MW0606-00001	The volume of water taken in the water year must be recorded in the logbook at the end of each water year. The maximum volume of water permitted to be taken in that water year must also be recorded in the logbook.	Not Triggered	Advice from Environmental Officer.	It is advised that no water was extracted during this period.
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.	Not Triggered	Advice from Environmental Officer.	It is advised that no water was extracted during this period.
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.	Not Triggered	Advice from Environmental Officer.	It is advised that no water was extracted during this period and no requests to inspect the logbook have been received.
<b>Reporting</b>				
MW0051-00002	Once the licence holder becomes aware of a breach of any condition of 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 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	Advice from Environmental Officer.	No breaches occurred during the audit period.

# Appendix 5

## Site Inspection Photographs

(Total No. of pages including blank pages = 6)



**Photo 1: Flammable liquids cupboard within workshop (1021B\_0004)**



**Photo 2: Self-bunded hydrocarbon containers and 205L drums on bunded pallets in active area workshop (1021B\_0009)**



**Photo 3: Self-bunded pallets with stored 205L drums above active area in the workshop. Spill kits are stored outside (1021B\_0014)**



**Photo 4: Covered waste oil tank and pipework (1021B\_0015)**



**Photo 5: Main bunded diesel storage tank (1021B\_0018)**



**Photo 6: Sandstone log extraction in Area 1 (1021B\_0021)**





**Photo 7: Active sandstone ripping area for sand products (1021B\_0025)**



**Photo 8: Near full Silt Dams 1 and 2 (combined) (1021B\_0023)**



**Photo 9: Twin Dams used for water supply (1021B\_0028)**



**Photo 10: Silt Dam 3 used for mud clean up (1021B\_0026)**



**Photo 11: Excellent vegetation growth in 80m wide corridor (1021B\_0031)**



**Photo 12: Steep western batter for Twin Dams (1021B\_0039)**





**Photo 13: Erosion and location of sediment-laden runoff from western batter near water pump (1021B\_0042)**



**Photo 14: Water pump adjacent to Twin Dams (1021B\_0043)**



**Photo 15: Scrap steel recycling bin (1021B\_0044)**



**Photo 16: Overflow point at LDP1 (1021B\_0046)**



**Photo 17: Sand washing plant (1021B\_0051)**



**Photo 18: Blending/Screening Area (1021B\_0054)**





**Photo 19: View to the northwest across Con's Hill Pit (1021B\_0058)**



**Photo 20: Sand Washing Plant (1021B\_0060)**



**Photo 21: Roadside revegetation near Quarry entrance (1021B\_0065)**



**Photo 22: Small block cutting/preparation area (1021B\_0067)**



**Photo 23: Oversize sandstone blocks for flood protection works (1021B\_0069)**



**Photo 24: Sandstone ripping operations in Con's Hill Pit (1021B\_0073)**





**Photo 25: Quarry entrance sign  
(1021B\_0076)**



**Photo 26: Meteorological and air quality  
monitoring station near Maroota Public  
School  
(1021B\_0080)**



**Photo 27: Piezometer monument for MW2 – not  
appropriately numbered  
(1021B\_0082)**



**Photo 28: Steel grey metal posts defining  
approved extraction boundary  
(1021B\_0086)**



**Photo 29: Semi-trailer (uncovered) with sandstone  
logs on weighbridge  
(1022B\_0093)**



**Photo 30: Covered semi-trailer with sandstone  
logs on weighbridge  
(1021B\_0095)**



# Appendix 6

## Status of Implementation of 2019 Audit Response Actions

(Total No. of pages including blank pages = 16)

**Table 6.1**  
**Status of Implementation of 2019 Audit Response Actions**

Page 1 of 15

ID	2019 IEA Comments and Recommendation / Suggested Improvement	Compliance Classification	Proposed Action(s) and Timeframe	2022 IEA Status Review
<b>Recommendations</b>				
ONR R1/19	<p>Ensure that adequate bunding (mobile or fixed) is available and utilised for storage of hydrocarbon drums in accordance with AS1940.</p> <p><i>A number of 205L hydrocarbon drums were observed be stored within a dedicated storage area within the workshop (Photographs E1021A_104 and 303). However, the dedicated area is not bunded and insufficient bunded pallets were available for all drums to be stored in accordance with AS1940. This is required to maintain compliance with conditional requirements and to minimise the potential for harm in the event of spills.</i></p>	Non-compliance	<p><b>Proposed Action:</b> Adequate bunding for storage of hydrocarbon drums in accordance with AS1940 will be utilised/installed at the nominated storage area located in the workshop.</p> <p><b>Implementation Timeframe:</b> 31 January 2020</p>	The storage of hydrocarbon has been upgraded since 2019 and is now well managed (Photos 2 to 5).
ONR R2/19	<p>Ensure that the Positive Public Covenant or other agreed method for providing long-term security of the Haerses Road Biodiversity Offset Area is implemented.</p> <p><i>DA 250-09-01 Schedule 3 Condition 25(c) requires that a long term security is provided for the Haerses Road Biodiversity Offset Area. Whilst proposed terms for a Public Positive Covenant have now been submitted, confirmation of these terms is awaited from DPIE. It is important that the Company remains proactive in following up and implementing the required security.</i></p>	Non-compliance	<p><b>Proposed Action:</b> Confirmation awaiting from DPIE regarding the conditional terms for the Positive Public Covenant. Once finalised, an application to enact the Positive Public Covenant for the Haerses Road Biodiversity Offset Area will be submitted.</p> <p><b>Implementation Timeframe:</b> Application to enact the Positive Public Covenant for Haerses Road Biodiversity Offset Area will be processed once Dixon Sand receives confirmation from the DPIE regarding the condition terms.</p>	The non-compliance has not been rectified as the Company is still awaiting confirmation from DPE regarding the condition terms.
ONR R3/19	<p>Submit a variation application for EPL 3916 to either remove Condition A4.1 or update to reference DA 250-09-01.</p> <p><i>The current Condition A4.1 requires compliance with a consent which is no longer valid. Therefore, compliance cannot be determined and the legal enforceability of this requirement is uncertain.</i></p>	Non-compliance	<p><b>Proposed Action:</b> An application for a variation to the EPL 3916 will be submitted to request the removal of condition A4.1.</p> <p><b>Implementation Timeframe:</b> EPL variation application will be submitted by 31 March 2020.</p>	The recommended variation request was submitted to the EPA and the current version of EPL 3916 is dated 1 March 2021.

Table 6.1 (Cont'd)  
Status of Implementation of 2019 Audit Response Actions

Page 2 of 15

ID	2019 IEA Comments and Recommendation / Suggested Improvement	Compliance Classification	Proposed Action(s) and Timeframe	2022 IEA Status Review
<b>Recommendations (Cont'd)</b>				
ONR R4/19	<p>Adopt a complaint recording and response form which requires the entry of all required information for each complaint received at the Quarry. Ensure that personnel responsible for recording complaint and subsequent investigation details are made aware of the requirement to record all necessary details.</p> <p><i>Current forms omit details which are required to be recorded for each complaint. Complaint forms should include sections requiring the recording of all details specified in Condition M5.2 of EPL 3916.</i></p>	Non-compliance	<p><b>Proposed Action:</b></p> <p>The existing Complaint Registration Form forms Appendix 13 of the Environmental Management Strategy (EMS). The Complaint Registration Form will be reviewed and if required, revised as part of the EMS and Management Plan review post the IEA Report submission. The revised form will include all requirements outlined in Condition M5.2 of EPL 3916.</p> <p>The personnel responsible for recording complaint will be retrained of the relevant requirements.</p> <p><b>Implementation Timeframe:</b></p> <p>Condition 5 (c) of Schedule 5 of DA 250-09-01 requires Dixon Sand to undertake a review of the EMS and Management Plans within 3 months of the submission of the IEA report and a notification to be provided to the DPIE.</p> <p>Should the review lead to revisions of the document, the revised document will be submitted within 6 weeks of the review notification date.</p>	The Complaint Registration Form was updated to include fields for all required details in April 2020 and forms Appendix 13 of the EMS.

Table 6.1 (Cont'd)  
Status of Implementation of 2019 Audit Response Actions

Page 3 of 15

ID	2019 IEA Comments and Recommendation / Suggested Improvement	Compliance Classification	Proposed Action(s) and Timeframe	2022 IEA Status Review
<b>Recommendations (Cont'd)</b>				
ONR R5/19	<p>Amend the Traffic Management Plan and associated driver induction documents to include measures / statements encouraging the display of appropriate signage on trucks used to transport products from the Quarry.</p> <p><i>DA 250-09-01 Schedule 3 Condition 22(d) requires the Company to "use its best endeavours to ensure that appropriate signage is displayed on all trucks used to transport product from the development so they can be easily identified by road users". Whilst it is understood the Company does not have legal jurisdiction to enforce display of signage, formal 'encouragement' to do so is required.</i></p>	Non-compliance	<p><b>Proposed Action:</b> The Traffic Management Plan (TMP) will be revised to include a statement encouraging haulage trucks to ensure appropriate signage is displayed. A broadcast email will also be sent to the haulage truck companies acknowledging the same request.</p> <p><b>Implementation Timeframe:</b> Condition 5 (c) of Schedule 5 of DA 250-09-01 requires Dixon Sand to undertake a review of the EMS and Management Plans within 3 months of the submission of the IEA report and a notification to be provided to the DPIE. Should the review lead to revisions of the document, the revised document will be submitted within 6 weeks of the review notification date.</p>	The TMP was updated in November 2020 and includes a performance measure in Section 5.1 requiring that trucks be maintained to ensure visibility of the registration plate, branding and identification features.
ONR R6/19	<p>Seek advice from a qualified ecologist regarding the best approach to preserving the native seedbank within topsoil stockpiles whilst limiting dust generation and revise the Air Quality Management Plan accordingly.</p> <p><i>The current Air Quality Management Plan requires that topsoil stockpiles are stabilised using non-invasive cereal or legume cover crops. Limited cover of topsoil stockpiles is currently achieved by native species which have emerged naturally from the stored seedbank. The Company advises that sowing a cover crop would compromise the existing native seedbank.</i></p>	Non-compliance	<p><b>Proposed Action:</b> Advice from a qualified ecologist will be sought regarding the best approach to preserve the native seedbank within topsoil stockpiles whilst limiting dust generation. The Air Quality Management Plan will then be revised accordingly.</p> <p><b>Implementation Timeframe:</b> Condition 5 (c) of Schedule 5 of DA 250-09-01 requires Dixon Sand to undertake a review of the EMS and Management Plans within 3 months of the submission of the IEA report and a notification to be provided to the DPIE. Should the review lead to revisions of the document, the revised document will be submitted within 6 weeks of the review notification date.</p>	<p>Advice from a qualified ecologist was sought and confirmed that the establishment of native flora on topsoil stockpiles was an effective way to preserve and develop the native species seedbank.</p> <p>Section 5.1 of the AQMP and Section 6.2.6 of the BRMP, both updated in November 2020, now identify native species as a suitable alternative cover crop for topsoil stockpiles. Additional measures to minimise dust generation are also identified.</p>

Table 6.1 (Cont'd)  
Status of Implementation of 2019 Audit Response Actions

Page 4 of 15

ID	2019 IEA Comments and Recommendation / Suggested Improvement	Compliance Classification	Proposed Action(s) and Timeframe	2022 IEA Status Review
<b>Recommendations (Cont'd)</b>				
ONR R7/19	<p>Ensure that annual water usage volumes, including groundwater extraction volumes under WAL 24341 (including nil extraction), are reported annually as required under the licence conditions and that 'Water Take' is reported in the Annual Review in accordance with the <i>Annual Review Guideline</i> (NSW Government, 2015).</p> <p><i>It is understood that annual water usage were not reported during the audit period. Furthermore, the water take component outlined in the Annual Review Guidelines has not been include in the 2017, 2018 or 2019 Annual Reviews.</i></p>	Non-compliance	<p><b>Proposed Action:</b> Future annual usage volumes for groundwater extraction under WAL 24341 will be reported to WaterNSW and included in the Annual Review.</p> <p><b>Implementation Timeframe:</b> The annual usage volume for groundwater extraction under WAL 24341 will be reported within the deadline stipulated by WaterNSW. Reporting of annual usage volume of groundwater under WAL 24341 will be included in all future Annual Reviews. The next Annual Review for the period of Financial Year 2019-2020 is due by the end of September 2020.</p>	Water usage under the Quarry's water access licences were reported annually to Water NSW and recorded in the Annual Reviews (2019/2020, 2020/2021 and 2021/20922) during the audit period.
ONR R8/19	<p>Rationalise the water level and water quality trigger values nominated in the Surface Water Management Plan using either default water quality guideline values or site specific trigger values.</p> <p><i>Current water quality trigger values specified by the Surface Water Management Plan are restrictive and inadequately reflect natural variation in water quality. Default water quality guideline values should be utilised until appropriate site-specific trigger values (20<sup>th</sup> and 80<sup>th</sup> percentile values) can be derived, generally from a minimum of two years of monthly data.</i></p>	Non-compliance	<p><b>Proposed Action:</b> The water level and water quality trigger values in the Soil and Water Management Plan will be reviewed and revised appropriately.</p> <p><b>Implementation Timeframe:</b> Condition 5 (c) of Schedule 5 of DA 250-09-01 requires Dixon Sand to undertake a review of the EMS and Management Plans within 3 months of the submission of the IEA report and a notification to be provided to the DPIE. Should the review lead to revisions of the document, the revised document will be submitted within 6 weeks of the review notification date.</p>	The SWMP was reviewed and trigger values and criteria for surface water and groundwater are now based on historic monitoring data (minimum, maximum, and 20 <sup>th</sup> , 50 <sup>th</sup> and 80 <sup>th</sup> percentile values) recorded at the site.

Table 6.1 (Cont'd)  
Status of Implementation of 2019 Audit Response Actions

Page 5 of 15

ID	2019 IEA Comments and Recommendation / Suggested Improvement	Compliance Classification	Proposed Action(s) and Timeframe	2022 IEA Status Review
<b>Recommendations (Cont'd)</b>				
ONR R9/19	<p>Ensure that water monitoring results are reviewed against the relevant trigger and criteria values as soon as possible following receipt of results. If water quality or levels exceeds the nominated trigger values, implement measures outlined in the trigger action response plan.</p> <p><i>Exceedances of the nominated trigger values must be identified as soon as possible to permit the effective implementation of response measures outlined in the trigger action response plan (e.g. confirmation sampling, increase in sampling frequency or investigation of possible causes).</i></p>	Non-compliance	<p><b>Proposed Action:</b> Once water monitoring results are obtained a review against the relevant trigger and criteria will be undertaken. Measures outline in the trigger and response plan will be implemented accordingly.</p> <p><b>Implementation Timeframe:</b> Immediate</p>	Water monitoring results are reviewed upon measurement (field parameters) and upon receipt to laboratory analysis results and compared to criteria and trigger values identified in the SWMP. Exceedances of trigger values are investigated in accordance with the trigger action response plans outlined in the SWMP.
ONR R10/19	<p>Ensure that, when a verified complaint or non-compliance with the Drivers Code of Conduct occurs, notification is provided to the other quarries who are also signatories to the Maroota Local Traffic Management Policy and request confirmation as to whether that truck or driver have any verified complaints/non-compliances at those quarries. Should it be verified that the driver has multiple verified complaints/non-compliances, ensure disciplinary action is undertaken in accordance with the Policy.</p> <p><i>Traffic is a key management measure for the community given 8 of 9 complaints received during the audit period related to trucks and that traffic was the key matter raised during the community survey presented at the CCC meeting on 21 November 2017. Whilst the fundamentals of the traffic management is included in the traffic management plan, effective implementation through collaboration with the other local quarries is needed.</i></p>	Non-compliance	<p><b>Proposed Action:</b> A meeting between the signatories of the Maroota Local Traffic Management Policy will be held to discuss the procedure for verifying complaint and non-compliances between the three quarries.  The Maroota Local Traffic Management Policy will be reviewed and revised where appropriate.</p> <p><b>Implementation Timeframe:</b> 31 March 2020</p>	The meeting with the other signatories was held and a procedure for the verification of complaints and non-compliances was adopted. This procedure was enacted in response to a complaint on 2 September 2020.

Table 6.1 (Cont'd)  
Status of Implementation of 2019 Audit Response Actions

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ID	2019 IEA Comments and Recommendation / Suggested Improvement	Compliance Classification	Proposed Action(s) and Timeframe	2022 IEA Status Review
<b>Recommendations (Cont'd)</b>				
ONR R11/19	<p>Notify all truck drivers of verified complaints / non-compliances relating to traffic and transportation (but maintain complainant and driver privacy) to ensure that they are aware of what types of complaints are being received and that these are being actioned.</p> <p><i>Supplementing driver induction documentation with ongoing reminders that any non-compliance with these requirements is being actioned may assist in improving driver behaviour.</i></p>	Non-compliance	<p><b>Proposed Action:</b></p> <p>Truck drivers will be notified of any complaints received or non-compliances relating to traffic and transportation. On-going educational campaign for truck drivers which are currently in place will continue to be carried out.</p> <p>Please note that Dixon Sand is currently implementing the above measures in the form verbal and written notifications to drivers.</p> <p><b>Implementation Timeframe:</b></p> <p>Immediate</p>	Complaint Registration Forms detail the outcomes and follow up actions implemented following the receipt of traffic-related complaints. A summary of these complaints and responses is also provided in Annual Reviews. Where traffic-related complaints were verified, the Company initiated education programs targeting the issue raised and other responsibilities for truck drivers associated with the Quarry (e.g. response to complaint received 30 November 2021).
ONR R12/19	<p>Ensure that monthly and annual summaries of product volumes transported from the Quarry are published on the Dixon Sand website every six months.</p> <p><i>Six monthly truck movement summaries are provided on the Dixon Sand website however six monthly production summaries are not provided.</i></p>	Non-compliance	<p><b>Proposed Action:</b></p> <p>Both the six monthly truck movement and six monthly production summary data will be published on Dixon Sand's website every six months.</p> <p><b>Implementation Timeframe:</b></p> <p>Immediate</p>	<p>Six-monthly truck movement summaries are available on the Dixon Sand website.</p> <p>Six-monthly production data is not available on the Dixon Sand website.</p>
ONR R13/19	<p>Install and maintain silt fences at the base of topsoil stockpiles until a 70% vegetative (or mulched) cover is achieved to prevent soil loss to surrounding areas.</p> <p><i>Soil stockpiles were observed with insufficient groundcover but no silt fencing (Photographs E1021A_178 to 181). Whilst no significant loss of soil was obvious and runoff from the stockpiled soil is unlikely to affect water quality or surrounding undisturbed habitat, failure to maintain the silt fencing is in non-compliance with the commitments within the Biodiversity and Rehabilitation Management Plan.</i></p>	Non-compliance	<p><b>Proposed Action:</b></p> <p>Silt fences will be installed at the base of topsoil stockpiles until 70% vegetative (or mulched) cover is achieved.</p> <p><b>Implementation Timeframe:</b></p> <p>31 January 2020</p>	Topsoil stockpiles present during the site inspection had achieved significant cover ( $\geq 70\%$ ) at the time of the site inspection. No new topsoil stockpiles requiring silt fencing were observed during the site inspection.



Table 6.1 (Cont'd)  
Status of Implementation of 2019 Audit Response Actions

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ID	2019 IEA Comments and Recommendation / Suggested Improvement	Compliance Classification	Proposed Action(s) and Timeframe	2022 IEA Status Review
<b>Recommendations (Cont'd)</b>				
ONR R14/19	<p>Develop, in consultation with weed management contractors, a weed density and distribution map for the Quarry.</p> <p><i>The weed density and distribution map should be updated annually and included and discussed in Annual Reviews for each reporting period in order to provide a record of weed management activities.</i></p>	Non-compliance	<p><b>Proposed Action:</b> A weed density and distribution map for the quarry will be developed in consultation with the weed management contractors and project ecologist.</p> <p><b>Implementation Timeframe:</b> 31 March 2020</p>	Weed density and distribution maps are included in the annual Biodiversity and Rehabilitation Management report for the Quarry.
ONR R15/19	<p>Develop and implement a translocated specimens form for use during translocation activities to ensure that all necessary information is recorded for each specimen.</p> <p><i>The translocated specimens form should require the recording of a unique specimen ID, original and translocated locations (including GPS coordinates and photographs of each location), a description of the appropriateness of the translocation position in the landscape, the date of translocation, confirmation of watering following translocation, an assessment of health, height, flowering status, dieback, and broad vegetation community for each specimen. Additional details regarding translocation timing (e.g. seasonal period, following rainfall, the effectiveness of previously recommended actions to protect/enhance the species etc.) should also be recorded on this form. A variation of this form may also be used to record necessary details during subsequent monitoring of translocated specimens, with details including browning or loss of foliage, evidence of unsuitable environmental conditions (e.g. sunburn or windburn), evidence of grazing or insect damage and evidence of plant disease recorded for each specimen.</i></p>	Non-compliance	<p><b>Proposed Action:</b> A Vegetation Translocation proforma will be developed to include all the necessary information. The Vegetation Translocation proforma will be utilised for any future flora translocation.</p> <p><b>Implementation Timeframe:</b> Condition 5 (c) of Schedule 5 of DA 250-09-01 requires Dixon Sand to undertake a review of the EMS and Management Plans within 3 months of the submission of the IEA report and a notification to be provided to the DPIE. Should the review lead to revisions of the document, the revised document will be submitted within 6 weeks of the review notification date.</p>	A Translocation Specimen Form requiring the relevant details has been prepared and is included as Appendix 7 of the Biodiversity and Rehabilitation Management Plan for the Quarry.

Table 6.1 (Cont'd)  
Status of Implementation of 2019 Audit Response Actions

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ID	2019 IEA Comments and Recommendation / Suggested Improvement	Compliance Classification	Proposed Action(s) and Timeframe	2022 IEA Status Review
<b>Recommendations (Cont'd)</b>				
<b>Suggested Improvements</b>				
ONR I1/19	<p>Ensure that the Air Quality Management Plan clearly defines and separates the compliance criteria, reactive measures, and notification requirements for both DA 250-09-01 and EPL 3916.</p> <p><i>A review of the AQMP confirms that not all requirements of EPL 3916 are specified or clearly separated from the requirements DA 250-09-01. As a result, reliance upon the AQMP alone in reviewing and responding to air quality monitoring results could result in a non-compliance or incorrect responses. For example, the 2018 and 2019 Annual Reviews reported that DA 250-09-01 Schedule 3 Condition 7 was non-compliant, however, a review of the data indicates that compliance was achieved. Further, whilst the Annual Review recorded non-compliances with the DA, these were not recorded as being notified to the (then) DPE.</i></p>	Suggested Improvement	<p><b>Proposed Action:</b> A review of the Air Quality Management Plan (AQMP) will be undertaken. The AQMP will be revised to ensure that there is clear segregation between the compliance criteria, reactive measures and notification requirements for both DA 250-09-01 and EPL 3916.</p> <p><b>Implementation Timeframe:</b> Condition 5 (c) of Schedule 5 of DA 250-09-01 requires Dixon Sand to undertake a review of the EMS and Management Plans within 3 months of the submission of the IEA report and a notification to be provided to the DPIE. Should the review lead to revisions of the document, the revised document will be submitted within 6 weeks of the review notification date.</p>	Air quality compliance criteria, reactive measures and notification requirements are clearly defined and separated in the approved Air Quality Management Plan (version November 2020).
ONR I2/19	<p>Ensure that the incident register (or other record) includes adequate detail to enable compliance against each aspect of the response measures. Given the regularity that this is required, this could be assisted through the use of a simple template form which summarises the requirements and provides for a response to be entered which demonstrates compliance or states where the requirement was not triggered and why. This form could support any required reporting to relevant government agencies.</p> <p><i>With the various and different requirements around air quality criteria triggers and exceedances, the information within the incident register is currently insufficient to determine strict compliance in all instances. See also Improvement ONR I1/19.</i></p>	Suggested Improvement	<p><b>Proposed Action:</b> Review and revise the incident registration and response/notification procedure to include adequate details enabling compliance against each aspect of the response measure.</p> <p><b>Implementation Timeframe:</b> Condition 5 (c) of Schedule 5 of DA 250-09-01 requires Dixon Sand to undertake a review of the EMS and Management Plans within 3 months of the submission of the IEA report and a notification to be provided to the DPIE. Should the review lead to revisions of the document, the revised document will be submitted within 6 weeks of the review notification date.</p>	Incident response requirements for various incident types are outlined in Section 7 of the Environmental Management Strategy for the Quarry. However, not all requirements (e.g. reporting timeframes) are detailed. A simple <i>Incident Response Checklist</i> (see <b>Recommendation ONR R10/2022</b> in this audit) would be more effective in facilitating incident response and notification requirements.

Table 6.1 (Cont'd)  
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ID	2019 IEA Comments and Recommendation / Suggested Improvement	Compliance Classification	Proposed Action(s) and Timeframe	2022 IEA Status Review
<b>Recommendations (Cont'd)</b>				
ONR I3/19	<p>Include an explanation within the Air Quality Monitoring Program of how the TEOM trigger system works, including frequency of sampling / averaging, and that, whilst there is a trigger value of <math>37\mu\text{g}/\text{m}^3</math>, the sampled value from one sampling / averaging period to the next may 'jump' above this level.</p> <p><i>The actual levels reported as part of the trigger alarm have ranged from <math>42.1\mu\text{g}/\text{m}^3</math> to <math>61.6\mu\text{g}/\text{m}^3</math>, i.e. the <math>\text{PM}_{10}</math> concentration rises quickly above the trigger from one measurement to the next. The Air Quality Management Plan should be clear to all stakeholders (the community, regulators, and Company personnel) on how the trigger system works in practice.</i></p>	Suggested Improvement	<p><b>Proposed Action:</b> Review and revise the AQMP to include an explanation of how the TEOM trigger system works, including information such as sampling/averaging to assist in the interpretation of data.</p> <p><b>Implementation Timeframe:</b> Condition 5 (c) of Schedule 5 of DA 250-09-01 requires Dixon Sand to undertake a review of the EMS and Management Plans within 3 months of the submission of the IEA report and a notification to be provided to the DPIE.</p> <p>Should the review lead to revisions of the document, the revised document will be submitted within 6 weeks of the review notification date.</p>	An explanation of the air quality monitoring program and the TEOM trigger system is provided in Section 3 and Section 6 of the approved Air Quality Management Plan (version dated November 2020).
ONR I4/19	<p>Update the SDS register to include all chemicals on site, the current SDS, an index of chemicals organised in alphabetical order, and a map of the key storage locations, spill kits, etc.</p> <p><i>Two on-site chemicals (Roundup and QD 601 Super Enamel) were selected to spot check the SDS register. Whilst the SDS for Roundup was available it was dated 2004 (i.e. beyond the 5 year review period). The SDS for QD 601 Super Enamel was not available. The SDS register also did not contain an index to enable ready identification of the available SDS or a map of the key storage locations.</i></p>	Suggested Improvement	<p><b>Proposed Action:</b> The SDS register will be reviewed and updated.</p> <p>The revision of the SDS register has commenced.</p> <p><b>Implementation Timeframe:</b> 31 March 2020</p>	The SDS register has been updated although it would be beneficial if the register could be sorted alphabetically by both product type and manufacturer (see <b>Recommendation ONR R7/22</b> )

Table 6.1 (Cont'd)  
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ID	2019 IEA Comments and Recommendation / Suggested Improvement	Compliance Classification	Proposed Action(s) and Timeframe	2022 IEA Status Review
<b>Recommendations (Cont'd)</b>				
ONR I5/19	<p>Replace timber boundary markers with steel markers over which ~2m long high visibility conduit (or similar) is placed.</p> <p><i>Whilst some marker posts were steel, many timber stakes were also in use. Steel pickets will provide a more enduring marker and use of high visibility conduit or similar will enhance the visibility of the marked boundary.</i></p>	Suggested Improvement	<p><b>Proposed Action:</b> The surveyor's timber pegs will be replaced with steel markers where possible.</p> <p><b>Implementation Timeframe:</b> 31 March 2020</p>	New steel markers were observed, however, they are difficult to readily identify because of their steel grey colour. A further recommendation has been provided following the 2022 Audit Site inspection (see <b>Recommendation ONR R5/22</b> ).
ONR I6/19	<p>Document within the Environmental Management Strategy, or other suitable management / procedures document, a simple Aboriginal heritage finds procedure which addresses the requirements of DA 250-09-01 Schedule 3 Condition 24.</p> <p><i>Whilst DA 250-09-01 Schedule 3 Condition 24 does not require a documented finds procedure, inclusion of this within relevant documentation, and appropriate training, will increase the likelihood that appropriate steps are undertaken in the event of an unexpected find.</i></p>	Suggested Improvement	<p><b>Proposed Action:</b> An "Unexpected Finds Procedure" will be developed as part of the EMS. This is inclusive of any Aboriginal Heritage Finds to address the requirement of DA 250-09-01 Schedule 3 Condition 24.</p> <p>Toolbox training for Quarry operators will include the above new procedure once the revised EMS is approved by the DPIE.</p> <p><b>Implementation Timeframe:</b> Condition 5 (c) of Schedule 5 of DA 250-09-01 requires Dixon Sand to undertake a review of the EMS and Management Plans within 3 months of the submission of the IEA report and a notification to be provided to the DPIE.</p> <p>Should the review lead to revisions of the document, the revised document will be submitted within 6 weeks of the review notification date.</p>	An Unexpected Archaeological Finds Protocol is included as Section 9 of the EMS (version dated April 2020).

**Table 6.1 (Cont'd)**  
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ID	2019 IEA Comments and Recommendation / Suggested Improvement	Compliance Classification	Proposed Action(s) and Timeframe	2022 IEA Status Review
<b>Recommendations (Cont'd)</b>				
ONR I7/19	<p>Update the Soil and Water Management Plan to address / specify the relevant requirements of the <i>Approved methods for the sampling and analysis of water pollutants in NSW</i> as referenced within EPL 3916 Condition M3.1.</p> <p><i>As no discharges occurred during the reporting period this requirement was not triggered. Whilst the Soil and Water Management Plan is not inconsistent with the requirements of EPL 3916, specific review and reference to the relevant requirements of the Approved methods would assist in ensuring compliance is achieved.</i></p>	Suggested Improvement	<p><b>Proposed Action:</b></p> <p>The Approved methods for the sampling and analysis of water pollutants in NSW will be included in the SWMP to comply with EPL 3916 Condition M3.1</p> <p><b>Implementation Timeframe:</b></p> <p>Condition 5 (c) of Schedule 5 of DA 250-09-01 requires Dixon Sand to undertake a review of the EMS and Management Plans within 3 months of the submission of the IEA report and a notification to be provided to the DPIE.</p> <p>Should the review lead to revisions of the document, the revised document will be submitted within 6 weeks of the review notification date.</p>	Section 5 of the SWMP (version dated November 2020) specifies that monitoring is to be undertaken in accordance with the Approved Methods Publication – <i>Approved Methods for the Sampling and Analysis of Water pollutants in New South Wales</i> (DEC 2004).
ONR I8/19	<p>Update references to Figure 1.3 to Figure 3.1 in the Noise Management Plan.</p> <p><i>A minor typo was identified in the Noise Management Plan.</i></p>	Suggested Improvement	<p><b>Proposed Action:</b></p> <p>The references to Figures 1.3 to Figure 3.1 in the NMP will be updated.</p> <p><b>Implementation Timeframe:</b></p> <p>Condition 5 (c) of Schedule 5 of DA 250-09-01 requires Dixon Sand to undertake a review of the EMS and Management Plans within 3 months of the submission of the IEA report and a notification to be provided to the DPIE.</p> <p>Should the review lead to revisions of the document, the revised document will be submitted within 6 weeks of the review notification date.</p>	Figure references have been updated and are correct in the NJMP (version dated April 2020).

Table 6.1 (Cont'd)  
Status of Implementation of 2019 Audit Response Actions

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ID	2019 IEA Comments and Recommendation / Suggested Improvement	Compliance Classification	Proposed Action(s) and Timeframe	2022 IEA Status Review
<b>Recommendations (Cont'd)</b>				
ONR I9/19	<p>Ensure that future Annual Reviews:</p> <ul style="list-style-type: none"> <li>include relevant criteria / trigger action levels on applicable charts and graphs;</li> <li>assess water quality criteria against the criteria / trigger action levels; and</li> <li>include a summary of any actions raised by government agencies in response to the previous Annual Review and where those issues have been addressed in the current reporting period.</li> </ul> <p><i>During the audit, a range of opportunities were identified to improve the value of the Annual Reviews. In some instances, these improvements will assist in demonstrating compliance.</i></p>	Suggested Improvement	<p><b>Proposed Action:</b></p> <p>Future Annual Reviews will include:</p> <ul style="list-style-type: none"> <li>include relevant criteria / trigger action levels on applicable charts and graphs, where applicable;</li> <li>assess water quality criteria against the criteria / trigger action levels, where applicable;</li> <li>include a summary of any actions raised by government agencies in response to the previous Annual Review and where those issues have been addressed in the current reporting period.</li> </ul> <p><b>Implementation Timeframe:</b></p> <p>Immediate</p>	Annual Reviews now include graphs showing relevant water quality criteria and trigger levels, an analysis of water quality monitoring results with reference to criteria and trigger levels, and a summary of actions required from previous Annual Reviews.
ONR I10/19	<p>Review and update the Soil and Water Management Plan taking into consideration the following.</p> <ul style="list-style-type: none"> <li>Review and update the water level and quality trigger levels (see also Recommendation ONR R8/19).</li> <li>Presentation of all relevant criteria / trigger levels, including discharge criteria, in a single sub-section with a dedicated heading/headings.</li> <li>Preparation of an 'Incident Response' subsection which clearly outlines the relevant requirements for all approvals / licences.</li> <li>Inclusion of level 4 headings in the table of contents to assist with document navigation.</li> <li>Clarify the location and details of the licenced bores attached to WAL 24341.</li> </ul>	Suggested Improvement	<p><b>Proposed Action:</b> A review and update of the SWMP will take the following aspects into consideration:</p> <ul style="list-style-type: none"> <li>Review and update the water level and quality trigger levels</li> <li>Presentation of all relevant criteria / trigger levels, including discharge criteria, in a single sub-section with a dedicated heading/headings.</li> <li>Preparation of an 'Incident Response' subsection which clearly outlines the relevant requirements for all approvals / licences.</li> <li>Inclusion of level 4 headings in the table of contents to assist with document navigation.</li> </ul>	<p>Water quality criteria and trigger levels have been updated based on historic monitoring results for the Quarry.</p> <p>Water quality criteria and trigger levels are now presented in a consolidated section of the plan (Section 6.1).</p> <p>An incident response subsection has been incorporated as Section 6.4 of the SWMP.</p> <p>Level four headings have been included in the SWMP table of contents.</p> <p>Section 5.2.2.2 of the SWMP indicates that WAL 24341 applies to licensed bores on Lot 196 DP752025.</p>



Table 6.1 (Cont'd)  
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ID	2019 IEA Comments and Recommendation / Suggested Improvement	Compliance Classification	Proposed Action(s) and Timeframe	2022 IEA Status Review
<b>Recommendations (Cont'd)</b>				
ONR I10/19 (Cont'd)	<i>During the audit, a range of opportunities were identified to improve the value of the Soil and Water Management Plan. In some instances, these improvements will assist in maintaining or demonstrating compliance.</i>		<ul style="list-style-type: none"> <li>Clarify the location and details of the licenced bores attached to WAL 24341.</li> </ul> <b>Implementation Timeframe:</b> Condition 5 (c) of Schedule 5 of DA 250-09-01 requires Dixon Sand to undertake a review of the EMS and Management Plans within 3 months of the submission of the IEA report and a notification to be provided to the DPIE. Should the review lead to revisions of the document, the revised document will be submitted within 6 weeks of the review notification date.	
ONR I11/19	Include within future Annual Biodiversity & Rehabilitation Management Report an assessment against the translocation performance criteria for translocation as outlined in Section 6.5.6 of the Biodiversity and Rehabilitation Management Plan.  <i>During the audit period, the success of translocated plants appears to have only been assessed against the survival proportion and not correlated back to the number of individuals impacted. This is required in order to assess compliance.</i>	Suggested Improvement	<b>Proposed Action:</b> The assessment against the translocation performance criteria for translocation (as outlined in Section 6.5.6 of the Biodiversity and Rehabilitation Management Plan) will be included in future Annual Biodiversity & Rehabilitation Management Report.  <b>Implementation Timeframe:</b> Immediate	The Annual Biodiversity & Rehabilitation Management Report includes an assessment of translocation performance against the 2:1 survival ration criteria outlined in the BRMP.
ONR I12/19	Consider combining the performance criteria outlined in Section 6.5.6 of the Biodiversity and Rehabilitation Management Plan with those outlined in Section 5.2 and drawing upon those outlined within Appendix 5 so there is a consolidated summary.  <i>The inclusion of a separate performance criteria within an 'isolated' subsection (6.5.6) has resulted in its assessment being missed as part of the Annual Biodiversity &amp; Rehabilitation Management Report.</i>	Suggested Improvement	<b>Proposed Action:</b> Review and revise the Biodiversity and Rehabilitation Management Plan to combine the performance criteria outlined in Section 6.5.6 and those contained in Section 5.2, with consideration of those outlined in Appendix 5 to provide a consolidated summary for future assessment and reporting.	The BRMP has been updated to ensure that all relevant rehabilitation and translocation completion criteria, as well as performance indicators, are referenced in a summary in Section 5.2.1. Whilst these have not been consolidated in a single section, reference to relevant sections of the BRMP should ensure that all criteria and indicators are assessed.



Table 6.1 (Cont'd)  
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ID	2019 IEA Comments and Recommendation / Suggested Improvement	Compliance Classification	Proposed Action(s) and Timeframe	2022 IEA Status Review
<b>Recommendations (Cont'd)</b>				
ONR I12/19 (Cont'd)			<b>Implementation Timeframe:</b> Condition 5 (c) of Schedule 5 of DA 250-09-01 requires Dixon Sand to undertake a review of the EMS and Management Plans within 3 months of the submission of the IEA report and a notification to be provided to the DPIE. Should the review lead to revisions of the document, the revised document will be submitted within 6 weeks of the review notification date.	
ONR I13/19	Update the Traffic Management Plan to reflect the current School Zone times and alert all truck drivers to this change in times. <i>It was identified that the TMP current identifies school zone times as 8.30am -9.00am and 3.00pm – 3.30pm, however, the Department of Education has confirmed they are currently between 8:00am and 9:30am and between 2:30pm and 4:00pm.</i>	Suggested Improvement	<b>Proposed Action:</b> The TMP will be updated to reflect the following school zone times: <ul style="list-style-type: none"> <li>8:00am to 9:30am, and</li> <li>2:30pm to 4:00pm</li> </ul> <b>Implementation Timeframe:</b> Condition 5 (c) of Schedule 5 of DA 250-09-01 requires Dixon Sand to undertake a review of the EMS and Management Plans within 3 months of the submission of the IEA report and a notification to be provided to the DPIE. Should the review lead to revisions of the document, the revised document will be submitted within 6 weeks of the review notification date.	The TMP has been updated to reflect the appropriate school zone times.
ONR I14/19	Review and update the Environmental Management Strategy taking into consideration the following. The change in water supply licences from the <i>Water Act 1912</i> to the <i>Water Management Act 2000</i> (i.e. Water Supply Works and Use Approvals and Water Access Licences). List the monitoring bore licences issued under the <i>Water Act 1912</i> .	Suggested Improvement	<b>Proposed Action:</b> The EMS will be reviewed and the following revision will applied to the document: <ul style="list-style-type: none"> <li>The change in water supply licences from the <i>Water Act 1912</i> to the <i>Water Management Act 2000</i> (i.e. Water Supply Works and Use Approvals and Water Access Licences).</li> </ul>	The EMS has been updated to reflect the change to the <i>Water Management Act 2000</i> . Section 8 of the EMS specifies that the Annual Review period is from 1 July to 30 June each year, with the report to be submitted by 30 September each year, as agreed by DPE.

Table 6.1 (Cont'd)  
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ID	2019 IEA Comments and Recommendation / Suggested Improvement	Compliance Classification	Proposed Action(s) and Timeframe	2022 IEA Status Review
<b>Recommendations (Cont'd)</b>				
ONR I14/19 (Cont'd)	Update the Annual Review reporting components to reflect the agreed reporting period (financial year) and submission timing (by 30 September). <i>During the audit a range of opportunities were identified to improve the value of the Environmental Management Strategy. In some instances, these improvements will assist in maintaining compliance.</i>		<ul style="list-style-type: none"> <li>A list of the monitoring bore licences issued under the Water Act 1912, if applicable.</li> <li>The reporting period for the Annual Review will be amended to reflect the financial year. The submission date for the Annual Review will be amended to 'by 30 September of each year', as agreed and approved by the DPIE.</li> </ul> <p><b>Implementation Timeframe:</b> Condition 5 (c) of Schedule 5 of DA 250-09-01 requires Dixon Sand to undertake a review of the EMS and Management Plans within 3 months of the submission of the IEA report and a notification to be provided to the DPIE. Should the review lead to revisions of the document, the revised document will be submitted within 6 weeks of the review notification date.</p>	
ONR I15/19	Consider preparing a formal document outlining the various plans, strategies, programs, forms, templates, registers etc. which form the Environmental Management System. The document should be structured so as to outline the framework of the Environmental Management System so that a new employee could locate all necessary documentation. In preparing the document, identify any gaps or updates required or where opportunity exists to consolidate or simplify.  <i>Whilst a certified Environmental Management System is not required, a formalised and documented system would assist both existing and future personnel in effectively implementing the system.</i>	Suggested Improvement	<p><b>Proposed Action:</b> A formal document outlining the components which constitute the Quarry's Environmental Management System will be prepared to highlight the framework of the system and procedures.</p> <p><b>Implementation Timeframe:</b> 30 June 2020</p>	Section 3 of the EMS provides an environmental management framework which lists the component documents forming part of the EMS.  This list should be updated to include all relevant documents (e.g. Appendices 1 – 3, Appendices 11 – 13, and Parts 1 and 2 of the Bushfire Management Plan.

# Appendix 7

## Document Reference Table

(Total No. of pages including blank pages = 3)

**Table A7-1**  
**Principal Audit Documentation Reviewed**

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Ref No.	Document Name
ONR04-2022	Soil and Water Management Plan
ONR05-2022	Noise Management Plan
ONR06-2022	Traffic Management Plan
ONR07-2022	Biodiversity and Rehabilitation Management Plan
ONR08-2022	Environment Management Strategy
ONR09-2022	Community Relations Plan
ONR10-2022	Environmental Monitoring Plan
ONR11-2022	Air Quality Management Plan
ONR12-2022	Plan Preparation Checklist and Certification
ONR15-2019	2001 EIS Lots 1 & 2
ONR16-2019	Modification 1
ONR17-2019	Modification 2
ONR18-2019	Modification 3
ONR19-2019	Modification 4
ONR20-2019	Modification 5
ONR21-2019	EIS 1999
ONR25-2019	Buffer zone survey submission
ONR27-2019	Bore hole drill records
ONR28-2019	Noise Agreement – R2
ONR37-2019	DPE Response – Extension of EMS Review Until March 2018 – 10 January 2018
ONR38-2019	Maximum Extraction Depth Map Approval from DPE – 3 July 2018
ONR39-2019	Development Consent – Modification 2
ONR41-2019	Re-appointment of CCC by DPE
ONR48-2019	Fencing contractor payment record
ONR49-2019	Biodiversity and Rehabilitation Bond calculation – September 2018
ONR50-2019	DPE Approval of Biodiversity and Rehabilitation Bond calculation
ONR51-2019	Banker's Undertaking – Biodiversity and Rehabilitation Bond
ONR52-2019	Confirmation of Biodiversity and Rehabilitation Bond exchange with DPE.
ONR53-2019	Approval of Environmental Management Strategy and components.
ONR54-2022	Report to DPIE - Incident Report – Water Discharge (16 June 2020)
ONR55-2022	Notice to DPIE – Review & Revision of EMS and Management Plans (9 April 2020)
ONR56-2022	Letter to DIE - Confirmation of Rehabilitation Bond Review (3 August 2020)
ONR57-2022	Notice to DPIE – Review and update to Maximum Extraction Depth Map (3 April 2020)
ONR58-2022	Attachment A – Maximum Extraction Depth Map Update (30 March 2020)
ONR59-2022	Letter from DPE – Satisfaction with Maximum Extraction Depth Map (22 October 2020)
ONR60-2022	2019/2020 Annual Review Main Text and Appendices A - G
ONR61-2022	2019/2020 Annual Review Appendices H - M
ONR62-2022	2019/2020 Annual Review Addendum
ONR63-2022	2020/2021 Annual Review
ONR64-2022	2021/2022 Annual Review

**Table A7-1 (Cont'd)**  
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Ref No.	Document Name
ONR65-2022	2019 IEA Audit Response and Proposed Actions
ONR67-2022	2019 IEA Submission Letter
ONR68-2022	2019-2020 Annual Review Addendum Satisfaction Letter
ONR69-2022	2020-2021 Annual Review Satisfaction Letter
ONR70-2022	Plant Incident Notification – 15/11/2021
ONR71-2022	Plant Incident Notification – 13/05/2022
ONR72-2022	Plant Incident Notification – 3/03/2022
ONR73-2022	DRG Annual Return 2018-2019
ONR74-2022	DRG Annual Return 2019-2020
ONR75-2022	DRG Annual Return 2020-2021
ONR76-2022	DPIE Approval of Noise Management Plan (22 October 2020)
ONR77-2022	DPIE Approval of Air Quality Management Plan (16 November 2020)
ONR78-2022	DPIE SWMP Approval
ONR79-2022	DPIE TMP Approval
ONR80-2022	DPIE BRMP Approval
ONR81-2022	DPIE EMS Approval
ONR82-2022	Notification of EMS and Management Plan Review – 2019/2020 Annual Review
ONR83-2022	Notification of EMS and Management Plan Review – 2020/2021 Annual Review
ONR84-2022	Notification of EMS and Management Plan Review – 2019 IEA
ONR85-2022	Submission of 2019/2020 Annual Review.
ONR86-2022	Satisfaction with 2020/2021 Annual Review.
ONR87-2022	Submission of 2019 IEA
ONR88-2022	Annual Return 2019/2020
ONR89-2022	Annual Return 2019/2020 Submission
ONR90-2022	Annual Return 2020/2021
ONR91-2022	Annual Return 2020/2021 Submission
ONR92-2022	Annual Return 2021/2022
ONR93-2022	Annual Return 2021/2022 Submission