



Dixon Sand Pty Ltd

ABN: 80 002 278 686



Independent Environmental Audit

of the

Haerses Road Quarry

for the period

23 October 2019 to
18 October 2022

Prepared by:



RWCcorkery&co

December 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 165-7-2005 for the Haerses 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 (DA) 165-7-2005, Environment Protection Licence (EPL) 12513, Water Access Licence (WAL) 25941 and WAL 25956 was assessed as follows.

Approval	DA 165-7-2005	EPL 12513	WAL 25941	WAL 25956
Compliant	181	56	5	5
Non-Compliant	7	0	0	0
Not Triggered	29	7	6	6
Total	217	63	11	11

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

- disturbing areas beyond the surveyed and marked boundaries of the defined extraction area in Cell 1A;
- omission of air quality mitigation measures for the sandstone cutting operations from the Air Quality and Noise Management Plans¹;
- the absence of water level data loggers within on-site dams; and
- lodgement of the Biodiversity and Rehabilitation Bond one week past the due date (a recurrent non-compliance).

Management Plans

A high-level review of the various strategies, plans and programs required by DA 165-7-2005 was undertaken. With the exception of coverage of the air quality mitigation measures in the Air Quality Management Plan, the plans were considered to generally meet the respective conditional requirements of DA 165-7-2005. A range of minor non-compliances with the implementation of some aspects of the plans were also identified with recommendations made to address these non-compliances.

¹ It is recognised that whilst the Air Quality and Noise Management Plans had not been modified at the time of the audit site inspection to address the sandstone cutting operations, the documents were modified and submitted to DPE for approval on 28 November 2022.

Approach to Environmental Management

During the audit, a good level of knowledge of environmental management matters was evident amongst the senior managers and most employee levels. The disturbances beyond the surveyed and marked boundaries of the defined extraction area in Cell 1A reflected a lack of knowledge regarding the need to confine extraction operations within the defined limits. The understanding of preferred conditions for soil viability and management was not well demonstrated. Whilst a range of recommended actions have been provided to assist in maintaining compliance and improving environmental management, there is an overall proactive approach to environmental management.

Recommended Actions

A total of 15 compliance-based Recommendations and five 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 Haerses Road Quarry (“HR Quarry”) and an associated Old Northern Road Quarry (“ONR Quarry”), in Maroota, NSW, approximately 40km north of Parramatta. Component areas for the HR Quarry are generally referenced by the relevant land parcels within the Quarry Site, namely:

- Lot 170 DP 664766;
- Lot 170 DP 664767;
- Lots A and B DP 407341;
- Lots 176 and 177 DP 752039; and
- Lot 216 DP 752039.

Extraction commenced in the Stage 1 cell in 2006, with ongoing extraction operations confined to the Stage 1 and Stage 2 cells. An expansion of the extraction area was approved on 22 January 2018 following the determination of Modification 1, permitting extraction of material from Extraction Areas on Lots A and B. Modification 2 (approved January 2019) included a minor correction to figures to reflect accurate disturbance areas adjacent to the Maroota State Forest buffer area. Modification 3 (approved June 2021) included an increase in the production rate from 250,000tpa to 495,000tpa, an increase in ENM/VENM importation up to 250,000tpa, an increase in daily heavy vehicle movements from 56 per day to 180 per day, and an extension to Stage 5 of the Tertiary Extraction Area. Modification 4 (approved July 2021) included a change to the extraction sequence in the Mod 1 extraction area and a change to the assignation of credits for biodiversity offsetting purposes. Modification 5 (approved June 2022) included the relocation of the site office, workshop and weighbridge, and the introduction of sandstone cutting activities.

During the audit period, unprocessed sand has been transferred from the HR Quarry to the ONR Quarry for processing and subsequent despatch. In October 2022, the Company commenced sand processing activities on site with processed sand products despatched directly from the Quarry to customers. Silts from the washing of materials extracted from both quarries are retained in engineered structures within former extraction areas at the ONR site, with these structures progressively rehabilitated to form the ONR Quarry approved final landform. Whilst opportunities for progressive rehabilitation at the HR Quarry have been limited to date, rehabilitation of the Stage 1 extraction area has commenced.

1.2 Scope and Audit Objectives

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

This audit has been prepared for Dixon Sand Pty Ltd (“the Company”) in accordance with *Schedule 5, Condition 13* of DA 165-7-2005 for the Haerses 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 165-7-2005, 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 audit of Company’s ONR Quarry. Details of the ONR Quarry audit are provided in a separate report (Ref: 1021/02) with this audit report confined to operations associated with the HR Quarry and associated Development Consent 165-7-2005, EPL 12513 and Water Access Licences 25941 and 25956.

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, Senior Environmental Consultant with RWC. Mr Flanagan participated in the 2019 Independent Environmental Audit and has been involved in numerous extractive industries and mining projects in the meantime.

The conditions of Development Consent 165-7-2005 do not specify a requirement for technical specialists, and none were requested through the agency consultation process.

1.4 Audit Period

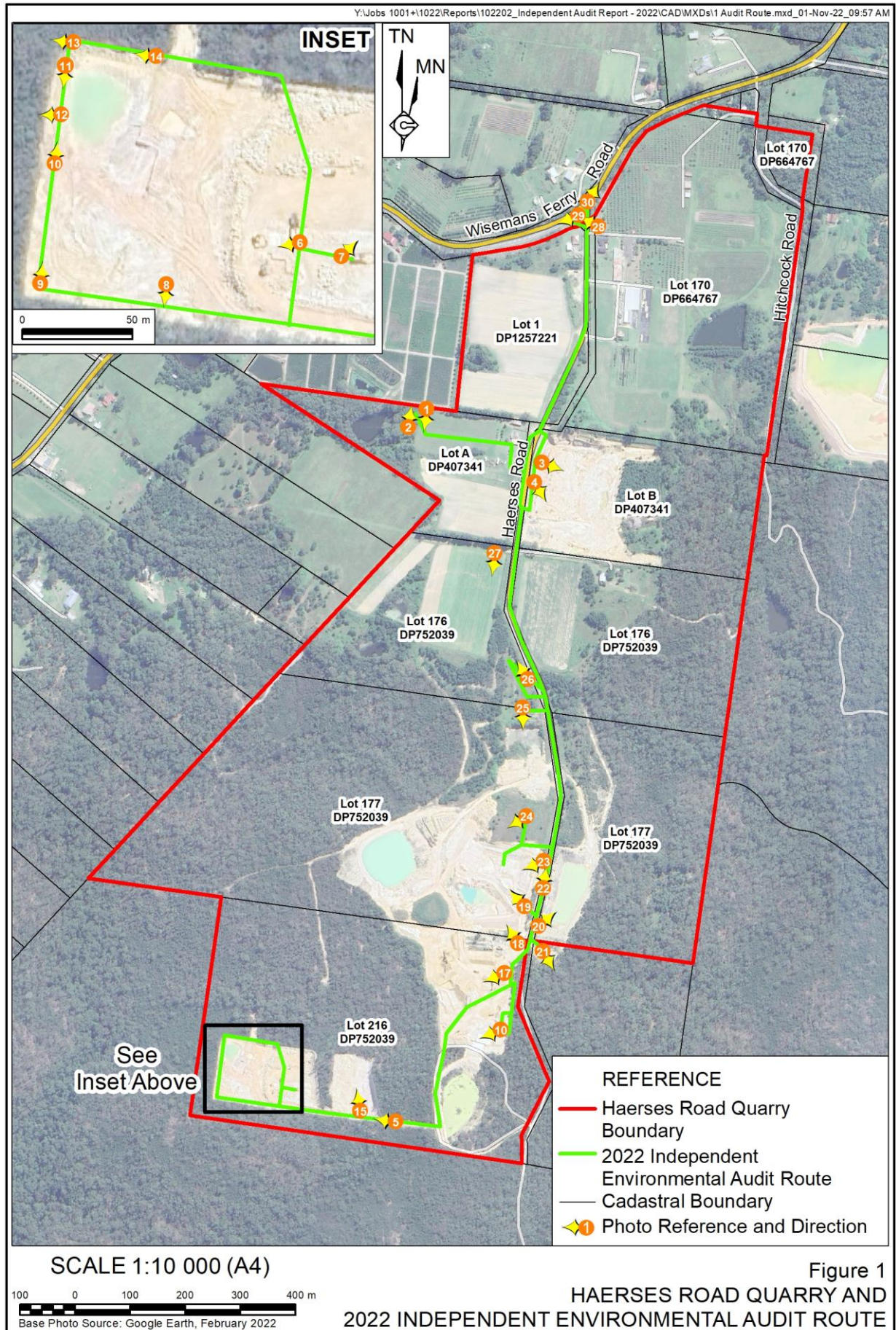
The previous independent environmental audit for the HR Quarry was undertaken for the three-year period between 20 November 2016 and 22 October 2019. Therefore, the current audit addresses the three-year period between 23 October 2019 and 18 October 2022 (the date of the audit site inspection for the HR 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 inspection. 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 165-7-2005 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 respectively.

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 since the 2019 independent environmental audit, Dixon Sand has sought and received two modifications of Development Consent DA 165-7-2005. 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 phone 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.

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"> 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</i>) [Entire Document].
NSW EPA	<ul style="list-style-type: none"> Exceedances in dust levels [Table A4.1 Conditions 3(9) to 3(12)].
Department of Planning and Environment – Water	<ul style="list-style-type: none"> Address compliance with: <ul style="list-style-type: none"> Water Management Plans and related sub-plans, Site Water Balance, Erosion and Sediment Control Plan, Stormwater Management Plan, Surface Water and Groundwater Management Plan; Extraction Plans and related sub-plans, Water Management Plan and Subsidence Management Plan; Trigger action response plans for water source impacts reporting on annual and exceedance based reporting; Water supply availability is clearly defined for the project; Water take at the site via storage, diversion, interception or extraction; Water metering at the site is in accordance; Water Access Licence/s used to account for water take by the project nominates the work where the water is being taken from; and <p>[Annual reporting documents; 1) water take, use and water source impacts, 2) compares results with previous years; and 3) how exceedances are managed.]</p>
Transport for NSW	<ul style="list-style-type: none"> Any condition which TfNSW recommended and are contained in the development consent [Table A4.1 Conditions 3(20) to 3(28)].
Hills Shire Council	<ul style="list-style-type: none"> Ensure that all setback areas are marked with survey markers or similar and that works have not encroached into the setback areas [Table A4.1 Condition 2(18c)]; and The maintenance of landscape screening around the site[Figure 1].
Community Consultative Committee – Independent Chairperson	<ul style="list-style-type: none"> No requirements were nominated.
Resources Regulator	<ul style="list-style-type: none"> No requirements were received.
Biodiversity and Conservation Division	<ul style="list-style-type: none"> No requirements were received.

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**.

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

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"> • Reduction of buffer area to 30m from Wisemans Ferry Road. • Turning restrictions at new intersection works. • Enquiry regarding sighting of Koalas. • Truck speeding (not related to Dixon operations).
24 February 2020	<ul style="list-style-type: none"> • Meeting called to discuss Haerses Road Modification 3 • No compliance, environmental or operator issues raised by community or Council representatives.
13 May 2020	<ul style="list-style-type: none"> • Use of exhaust brakes has markedly increased (during roadworks).
11 November 2020 (Annual IEA)	<ul style="list-style-type: none"> • No compliance, environmental or operator issues raised by community or Council representatives.
12 May 2021	<ul style="list-style-type: none"> • No compliance, environmental or operator issues raised by community or Council representatives.
10 November 2021	<ul style="list-style-type: none"> • Need for speed reduction near Cattai School • Ongoing discussion regarding timing for school zone and follow up with R. Preston MP. • No compliance or environmental issues raised by community or Council representatives.
13 May 2022	<ul style="list-style-type: none"> • Ongoing discussion regarding timing for school zone and follow up with R. Preston MP. • Opportunity for joint meetings with PF Formation CCC (relating to common matters).

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 Hunsamon Churcher – Environmental Officer
- Mr Ben Grogan – Operations Manager, Maintenance Manager
- Mr Michael Munnoch – Operations Manager, Civil Works

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

The site inspection of the HR Quarry involved a combination of vehicle and pedestrian movement to provide the greatest coverage of the 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 during the site inspection.

Figure 1 displays the traverses followed during the site inspection together with locations of the photographs presented in **Appendix 5**. It is noted that the audit site inspection occurred following a lengthy period of above average rainfall. Consequently, various areas within the Quarry Site were water-logged with quantities of water retained on site being higher than normal.

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:	A draft of the completed audit report was supplied to the Company to review for factual correctness and with a final request for any audit evidence. The audit report was 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 165-7-2005 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 review of any notices, orders, penalty notices or prosecutions;
- a review of any received complaints;

- a review of any incidents; and
- 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, Environment Protection Licence and Water Access Licences

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. All supplied documentation relied upon during the audit is listed in **Appendix 7**. Where documents were simply sighted on site and copies were not retained, these are referenced 'as sighted'.

All conditions outlined in Development Consent DA 165-7-2005, Environment Protection Licence 12513 and Water Access Licences 25941 and 25956 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 and **Appendix 6**).

6. High Level Review of the Environmental Management System

The Environmental Management System for the HR Quarry is not a certified Environmental Management System. Therefore, review of the Environmental Management System 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.

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 at the time when the audit is undertaken, 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 Resource Regulator issued one Section 191 Improvement Notice, under the *Work Health and Safety Act 2011*, dated 24 November 2021. This notice and the required actions were reported in the 2021/2022 Annual Review.

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

3.1.2 Complaints

One complaint was recorded for the HR during the audit period (see **Table 3.1**). This complaint related to potentially dangerous driving of a product haulage truck on a public road.

Table 3.1
Summary of Complaints Received During Audit Period

Date	Nature of Complaint	Follow-up Action
29/01/21	Product haulage truck was alleged to be driven in a dangerous manner, cutting off a public road user when turning onto Old Northern Road from Wisemans Ferry Road.	The Quarry Manager contacted the truck driver who admitted to the dangerous behaviour and apologised. The complainant was made aware of this apology and informed that the Quarry would contact the driver's company to inform them of the complaint and remind them of their responsibilities regarding the safe use of public roads. The Weighbridge Operator was instructed to communicate the details of this complaint to all Quarry-related truck drivers along with a reminder of their responsibilities on public roads.

The Company notes that it does not operate (or contract) its own truck fleet. Therefore, outside of the Quarry boundary, the Company does not have legal jurisdiction over the trucks. Notwithstanding, the Company does reserve the right, in accordance with the Traffic Management Plan and the Maroota Local Traffic Management Policy, to refuse access to drivers who do not comply with the provisions of the plan and policy.

3.1.3 Incidents

The 2019/2020, 2020/2021 and 2021/2022 Annual Reviews reported that there were no environmental incidents during the review periods.

Several exceedances of the $42\mu\text{g}/\text{m}^3$ criteria for 24-hour rolling average PM_{10} and monthly criteria (annual average $4\text{g}/\text{m}^2/\text{month}$) criteria for deposited dust were recorded during the audit period and notified to the DPE and EPA. Investigations concluded that each of these incidents were the result of non-Quarry related activities (e.g. activities on adjacent land, extreme weather events) and did not constitute non-compliances.

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 prepared during the audit period, 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

Page 1 of 2

Aspect	Approval Criteria / EIS Prediction	Performance During the Audit Period
Noise	Day and shoulder period ranging from 35dB(A) to 40dB(A) at seven residence locations and 35dB(A) at all other locations. (DA Condition 3(3))	Noise monitoring was undertaken during June 2020, June 2021, December 2021, and June 2022. All monitoring recorded compliance with the approval criteria. No noise-related complaints were received during the audit period.
Air Quality	PM ₁₀ 24hr (incremental) = 50ug/m ³ PM ₁₀ Annual (cumulative) = 30ug/m ³ TSP Annual (cumulative) = 90ug/m ³ Dep Dust (cumulative) = 4g/m ² /month Dep Dust (incremental) = 2g/m ² /month (DA Condition 3(9))	Whilst the results of air quality monitoring during the audit period recorded a number of exceedances of the 24hr PM ₁₀ criteria, none of these exceedances were attributed to the HR Quarry or occurred when prevailing winds were in a direction for contributions to have been received from HR Quarry. Exceedances of the cumulative deposited dust were also recorded but were attributed to external activities (e.g. agricultural land use, helicopter operations) occurring adjacent the Quarry. No air quality-related complaints were received during the audit period.
Traffic	Truck movement limits: 180 per day (including transfers to ONR Quarry) 20 between 6.00am and 7.00am (DA Condition 2(8))	During the audit period, maximum daily truck movements were 138 truck movements and maximum truck movements between 6:00am and 7:00am remained below 20. Therefore, compliance was achieved with the both the daily and early morning limits. One traffic-related complaint was received in response to potentially dangerous driving by a truck driver on a public road.
Surface Water	The DA does not specify criteria and there are no licenced discharge points. The 2005 EIS and 2016 Environmental Assessment predicted that there would be no significant impacts.	The Annual Reviews report that there were no surface water discharges during the audit period, and this was confirmed by the Environmental Officer. Additionally, analysis of surface water monitoring results against site-specific trigger values and criteria did not identify any significant impacts to surface water quality associated with the Quarry. As there has been no discharge and no significant adverse impacts to surface water quality were identified through monitoring, it is considered that the Quarry is unlikely to have significantly impacted surface water.

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

Page 2 of 2

Aspect	Approval Criteria / EIS Prediction	Performance During the Audit Period
Groundwater	<p>Neither the DA nor EPL specify quality criteria.</p> <p>No extraction is to occur within 2m of the highest recorded wet weather groundwater level within both the MTSGS and SBCGS.</p> <p>(DA Condition 2(19))</p> <p>The 2005 EIS predicted it would be unlikely that there would be extraction induced lowering of groundwater levels. Due to previous agricultural activity and previous removal of humic material it was considered unlikely the quarry would affect the pH of the downstream groundwater.</p> <p>The 2016 Environmental Assessment predicted there would be no capture of groundwater and no interference with neighbouring bores.</p>	<p>Additional monitoring bores as required by MOD1 of DA 165-7-2005 were installed in May 2018 and data loggers installed in all bores. A maximum depth extraction map has also been prepared and approved (included as Appendix 3 of the SWMP). Advised extraction has remained within the approved limit.</p> <p>The Annual Reviews report that there have been no impacts upon the Maroota Tertiary Sands Groundwater Source (MTSGS) and Sydney Basin Central Groundwater Source (SBCGS) groundwater levels or quality.</p>
Heritage	<p>During the studies for the 2005 EIS and 2016 Environmental Assessment no heritage matters were identified and the potential for unrecorded cultural material to be encountered was considered low.</p>	<p>The Environmental Officer confirms that no items suspected of being Aboriginal heritage have been encountered during the audit period.</p>
Biodiversity	<p>A range of biodiversity credits must be retired prior to any vegetation clearing in the MOD1 extraction area.</p> <p>(DA Condition 3(30 to 33))</p> <p>Progressive rehabilitation must be undertaken.</p> <p>(DA Condition 3(35))</p>	<p>Clearing and extraction has commenced within extraction Cells 1A and 1B of the MOD1 extraction area.</p> <p>Correspondence from DPIE confirms that the offsetting requirements under Condition 30 have been met for extraction in the first stage of the MOD 1 Extraction Area through payment into the Biodiversity Conservation Fund (confirmation dated 1 November 2019).</p> <p>Progressive rehabilitation has been undertaken at the HR Quarry where practicable to reduce the area of exposed surfaces. Additionally, interim stabilisation measures including the establishment of groundcover on soil stockpiles have been implemented to control dust emission prior to final rehabilitation.</p>

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 HR Quarry.

Table 3.3
Summary of Current Consents, Licences and Permits

Approval / Licence / Permit	Issue Date	Expiry Date	Details / Comments
Development Approvals			
Development Consent 165-7-2005	14/02/2006	14/02/2046	Development consent originally granted by the (then) Minister for Planning on 14 February 2006. The development consent has subsequently been modified on five occasions, with Modification No. 5 approved in June 2022.
Environment Protection Licence			
Environment Protection Licence No. 12513	26/07/2006	Renewed Annually	Current version date 3 June 2022. Reporting period 25 July to 24 July.
Other Approvals & Licences			
Water Supply Works Approval 10CA104191	01/07/2011	20/06/2024	Approves diversion works (pumps) and storages in the Hawkesbury and Lower Nepean Rivers Water Source. This is the nominated work for WAL25941.
Water Supply Works Approval 10CA105044	01/07/2011	30/06/2024	Approves diversion works (pumps) and storages in the Hawkesbury and Lower Nepean Rivers Water Source. This is the nominated work for WAL25956.
Water Access Licence 25941	Continuing		Provides an entitlement of 50ML from the Hawkesbury and Lower Nepean Rivers Water Source. Works Approval 10CA104191 is the nominated work.
Water Access Licence 25956	Continuing		Provides an entitlement of 132ML from the Hawkesbury and Lower Nepean Rivers Water Source. Works Approval 10CA105044 is the nominated work.

3.2.2 Compliance Performance

A tabulated compliance assessment was completed against the requirements of DA 165-7-2005, EPL 12513, WAL 25941 and WAL 25956. The full compliance assessment is presented as **Appendix 4** with a summary of the compliance performance provided as follows.

DA 165-7-2005

The status of compliance against the conditional components of DA 165-7-2005 was assessed as follows.

Compliant	-	181
Non-Compliant	-	7
Not Triggered	-	29
Total		217

EPL 12513

The status of compliance against the conditional components of EPL 12513 was assessed as follows.

Compliant	-	56
Non-Compliant	-	0
Not Triggered	-	7
Total		63

WAL 25941

The status of compliance against the conditional components of WAL25941 was assessed as follows.

Compliant	-	5
Non-Compliant	-	0
Not Triggered	-	6
Total		11

WAL 25956

The status of compliance against the conditional components of WAL25956 was assessed as follows.

Compliant	-	5
Non-Compliant	-	0
Not Triggered	-	6
Total		11

3.2.3 Summary of Non-Compliances

Non-compliances recorded against DA 165-7-2005 are presented in full within **Appendix 4** and summarised in **Table 3.4**. No non-compliances were recorded against EPL 12513, WAL 25941 or WAL 25956.

Table 3.4
Summary of Non-compliances with DA 165-7-2005

Page 1 of 3

Cond. No.	Conditional Requirement	Compliance Status	Basis for Compliance	Comments and Recommended Actions
SCHEDULE 2 – ADMINISTRATIVE CONDITIONS				
TERMS OF CONSENT				
2 2 (b)	The Applicant must carry out the development: in accordance with the conditions of this consent and the Development Layout Plans. <i>Note: The Development Layout Plan is shown in Appendix 1</i>	Non-compliant	HR67-2022 Observations	The Quarry layout was observed to reflect the Development Layout Plans included as Appendix 1 of DA 167-7-2005. 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 2(18)(c), 3(11)(g), 3(11)(h), 3(16)(d) and 3(37).
LIMITS OF EXTRACTION				
Buffer Zones				
18 (c)	ensure that the boundaries of each operational extraction area are clearly marked on site in a permanent manner that allows operating staff and inspecting officers to clearly identify these limits, to the satisfaction of the Secretary.	Non-compliant	Observations Photos 8 to 12	Surveyed star posts and connecting white cord delineating extraction area boundaries were observed during the site inspection of Cell 1A. However, some posts were observed to be missing and/or had been removed/buried along the southern and western boundaries of the MOD 1 extraction area during perimeter bund construction/maintenance. See Recommendations HR R1/22 to HR R5/22.
SCHEDULE 3 SPECIFIC ENVIRONMENTAL CONDITIONS				
NOISE				
Noise Management Plan				
8 (g)	Describe the noise mitigation measures that will be implemented in the operation of plant and equipment to minimise noise emissions from sandstone cutting to ensure compliance with the noise criteria in this consent at all times. The Applicant must implement the Noise Management Plan as approved by the Secretary.	Non-compliant	HR77-2022	The approved NMP (May 2022) does not include measures targeting sandstone cutting operations and Condition 8(g) is not listed as a development consent condition in Section 2.1. It is recognised that whilst the Noise Management Plan had not been modified at the time of the audit site inspection to address the sandstone cutting operations, the document was modified and submitted to DPE for approval on 28 November 2022. See Recommendation HR R15/22.

Table 3.4 (Cont'd)
Summary of Non-compliances with DA 165-7-2005

Page 2 of 3

Cond. No.	Conditional Requirement	Compliance Status	Basis for Compliance	Comments and Recommended Actions
SCHEDULE 3 SPECIFIC ENVIRONMENTAL CONDITIONS (Cont'd)				
AIR QUALITY				
Air Quality Management Plan				
11 (g)	Describe the mitigation measures that will be implemented in the sandstone cutting shed during the processing of extracted sandstone and detail how these measures will achieve compliance with the air quality criteria in this consent at all times; and	Non-compliant	HR76-2022 HR99-2022	The approved AQMP (April 2020) and the latest (unapproved version of the AQMP (version dated November 2021) does not include measures targeting sandstone cutting operations. It is recognised that whilst the Air Quality Management Plan had not been modified at the time of the audit site inspection to address the sandstone cutting operations, the document was modified and submitted to DPE for approval on 28 November 2022. It is also acknowledged that sandstone cutting operations have not yet commenced within the quarry.
11 (h)	Describe the mitigation measures that will be implemented in the operation of plant and equipment to minimise dust emissions from sandstone cutting to ensure compliance with the air quality criteria in this consent at all times.	Non-compliant	HR76-2022 HR99-2022	The approved AQMP (April 2020) and the latest (unapproved version of the AQMP (version dated November 2021) does not include measures targeting sandstone cutting operations. It is recognised that whilst the Air Quality Management Plan had not been modified at the time of the audit site inspection to address the sandstone cutting operations, the document was modified and submitted to DPE for approval on 28 November 2022. It is also acknowledged that sandstone cutting operations have not yet commenced within the quarry.
SOIL AND WATER				
Groundwater Management				
16 (d)	install water level loggers in all existing on-site quarry dams and in new quarry dams when constructed; and	Non-compliant	HR75-2022 HR78-2022 HR61-2022 HR62-2022 HR63-2022 HR64-2022	Extraction has commenced in the MOD 1 area and water level data loggers have not been installed in on-site dams. See Recommendation HR R12/22. Surface water levels in on site dams were not presented in Annual Reviews during the audit period. The locations of all on-site dams, and the distinction between dams and sediment basins, is not clear in the SWMP or Environmental Monitoring Locations documents. See Improvement HR I5/22.

Table 3.4 (Cont'd)
Summary of Non-compliances with DA 165-7-2005

Page 3 of 3

Cond. No.	Conditional Requirement	Compliance Status	Basis for Compliance	Comments and Recommended Actions
SCHEDULE 3 SPECIFIC ENVIRONMENTAL CONDITIONS (Cont'd)				
BIODIVERSITY AND REHABILITATION				
Biodiversity and Rehabilitation Bond				
37	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.	Non-compliant	HR36-2019.	The original BRMP was approved on 18 September 2018 and the Biodiversity and Rehabilitation Bond was lodged on 25 March 2019 (ie. 1 week past the required timeframe). This remains an administrative non-compliance with no further action required and was reported as a non-compliance in the 2019 IEA.

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 3.5**.

Table 3.5
Strategies, Plans and Programs Audited

Strategy / Plan / Program	Status
Environmental Management Strategy	Dated April 2022. Prepared by Project Environmental Services Pty Ltd. Requirement of DA 165-7-2005 <i>Schedule 5 Condition 1</i> . Approved by (then) DPIE 3 June 2019.
Air Quality Management Plan	Appendix 6 of the Environmental Management Strategy. Dated April 2020. Prepared by Umwelt. Requirement of DA 165-7-2005 <i>Schedule 3 Condition 11</i> . Approved by (then) DPIE 3 June 2019.
Noise Management Plan	Appendix 7 of the Environmental Management Strategy. Dated May 2022. Prepared by Project Environmental Services Pty Ltd. Requirement of DA 165-7-2005 <i>Schedule 3 Condition 8</i> . Approved by (then) DPIE 3 June 2019.
Soil and Water Management Plan	Appendix 8 of the Environmental Management Strategy. Dated November 2020. Prepared by Umwelt. Requirement of DA 165-7-2005 <i>Schedule 3 Condition 19</i> . Approved by (then) DPIE 3 June 2019.
Traffic Management Plan	Appendix 9 of the Environmental Management Strategy. Dated November 2020. Prepared by Umwelt. Requirement of DA 165-7-2005 <i>Schedule 3 Condition 28</i> . Approved by (then) DPIE 3 June 2019.
Biodiversity and Rehabilitation Management Plan	Appendix 10 of the Environmental Management Strategy. Dated November 2020. Prepared by Umwelt. Requirement of DA 165-7-2005 <i>Schedule 3 Condition 36</i> . Approved by (then) DPIE 3 June 2019.
Acoustic Bund Construction Noise Management Plan	Appendix 11 of the Environmental Management Strategy. Dated April 2020. Prepared by Umwelt. Requirement of DA 165-7-2005 <i>Schedule 3 Condition 6</i> . Approved by (then) DPIE 3 June 2019.

3.3.2 Review of Strategies, Plans and Programs

3.3.2.1 Environmental Management Strategy

The Environmental Management Strategy (EMS) addresses the requirements of DA 165-7-2005 *Schedule 5 Condition 1* and is structured in an appropriate manner. The EMS is supported by the other management plans required by DA 165-7-2005 which are appended to the EMS. In relation to matters considered appropriate for improvement, the following is noted (see **HR I2/22** and **HR R11/22**).

- All documentation relied upon on site, including the EMS and all component documents which form appendices to the EMS, should include relevant document control information including the computer file path, date created, review date, and approval date.

- A general *Incident Response Checklist* should be prepared and included as an appendix to the EMS to ensure that all relevant notification requirements and follow-up actions are completed within relevant timeframes in response to any incident.

3.3.2.2 Air Quality Management Plan

The Air Quality Management Plan (AQMP) addresses the requirements of DA 165-7-2005 *Schedule 3 Condition 11* and EPL 12513 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. 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 matters considered appropriate for improvement, the following is noted (see **HR R14/22**).

- The AQMP should be updated to document the saw cutting operations within the Quarry and identify appropriate management and mitigation measures.

3.3.2.3 Noise Management Plan

The Noise Management Plan (NMP) adequately addresses the requirements of DA 165-7-2005 *Schedule 3 Condition 8* and EPL 12513 and includes a summary of the regulatory requirements, the existing noise environment, assessment criteria, mitigation measures, monitoring, reporting, responsibilities and review. The presentation of the management measures, both proactive and reactive, in a table format with timing, responsibility and performance indicator is commended.

No specific improvements were identified as part of the high-level review and, in relation to implementation of the NMP, no specific non-compliances were identified.

3.3.2.4 Soil and Water Management Plan

The Soil and Water Management Plan (SWMP) adequately addresses the requirements of DA 165-7-2005 *Schedule 3 Condition 19* and is structured in an appropriate manner. The inclusion of relevant soil and water management commitments and associated hold points provides a useful summary of those monitoring and management actions which must be completed prior to the commencement of further development stages at the Quarry. Updated surface and groundwater quality criteria and trigger levels based on historical monitoring data at the Quarry also provide for a more reasonable approach to the ongoing analysis of water quality.

In relation to implementation of the SWMP, non-compliances were identified with respect to the following (see **HR R12/22** and **HR R13/22**).

- Water level loggers, or an alternate method of recording water levels as agreed with relevant stakeholders, should be installed at each of the on-site dams used to support Quarry operations.
- The SMP should be updated to include soil stockpiling protocols in line with best practice soil management measures.

In relation to implementation of the SWMP, improvements were identified with respect to the following (see **HR I5/22**).

- All water storages within the Quarry site should be identified on a single figure in the SWMP, with the figure classifying individual water storages in terms of their function (e.g. water storage dam, sediment basin/dam).

3.3.2.5 Traffic Management Plan

The Traffic Management Plan (TMP) adequately addresses the requirements of DA 165-7-2005 Schedule 3 Condition 28 and is structured in an appropriate manner. The TMP is supported by a number of appendices including the Site Traffic Management Plan: Maroota Local Traffic Management Policy, Site Traffic Control Plan, 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 and no further improvements with regards to these measures are considered necessary.

In relation to implementation of the TMP, improvements were identified with respect to the following (see **HR R8/22**).

- All documents which form part of the Driver's Code of Conduct (i.e. the Maroota Local Traffic Management Policy, Site Traffic Control Plan, and Site Induction for Drivers) should be reviewed and updated as necessary. A complete copy of the Code should be signed by each driver upon induction and a copy of the signed document should be retained by the driver and the Company.
- Section 4 of the TMP and the table of contents should be updated to correctly identify appendices which form part of the Driver's Code of Conduct.

3.3.2.6 Biodiversity and Rehabilitation Management Plan

The Biodiversity and Rehabilitation Management Plan (BRMP) adequately addresses the requirements of DA 165-7-2005 *Schedule 3 Condition 36* and is generally structured in an appropriate manner.

No specific improvements were identified as part of the high-level review and, in relation to implementation of the BRMP, no specific non-conformances were identified.

3.3.2.7 Acoustic Bund Construction Noise Management Plan

The Acoustic Bund Construction Noise Management Plan (CNMP) adequately addresses the requirements of DA 165-7-2005 Schedule 3 Condition 6 and is generally structured in an appropriate manner.

Construction of the acoustic bunds has not yet commenced as the requirements for the bunds have not been triggered. As such, an assessment of the implementation of the CNMP was not possible.

3.4 Implementation of Previous Audit Recommendations

The Company prepared a response to the audit findings which included proposed actions for each non-compliance in the 2019 Independent Environmental 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.

- HR R14/19 – 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.
- HR R16/19 – Whilst issues with existing topsoil stockpiles observed during the 2019 IEA site inspection were rectified during the audit period, a new topsoil stockpile was observed to have been located on land which was not appropriately prepared during the 2022 IEA site inspection.

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 (**Recommendation HR R11/2022**).

3.6 Approach to Environmental Management

During the audit, a good level of knowledge of environmental management matters was evident amongst the senior managers and most employee levels. The disturbances beyond the surveyed and marked boundaries of the defined extraction area in Cell 1A reflected a lack of knowledge regarding the need to confine extraction operations within the defined limits. The understanding of preferred conditions for soil viability and management was not well demonstrated. Whilst a range of recommended actions have been provided to assist in maintaining compliance and improving environmental management, there is an overall proactive approach to environmental management.

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

4. Recommended Actions

4.1 Introduction

The audit of the HR 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 “HR R” and are provided in Section 4.2 whilst suggested “Improvements” have been presented with the prefix “HR 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.

It is noted that some of the recommendations for the Haerses Road Quarry have been duplicated from the audit of the Old Northern Road Quarry. The duplication has been adopted to ensure that a number of the matters discussed for the Old Northern Road Quarry are also addressed as processing commences and product despatches increase from the Haerses Road Quarry.

In light of the results of the environmental audit, a total of 15 compliance-based Recommendations and five suggested Improvements are provided for the Company’s consideration and action.

4.2 Recommendations Arising from Non-Compliances

HR R1/22 All disturbed surveyed star posts around the boundaries of the approved extraction areas should be re-instated prior to painting (see Recommendation R2).

A number of star posts were observed to be pushed over, bent or buried around Cells 1A and 1B. These star posts should not have been disturbed and need to be replaced.

HR R2/22 All surveyed star posts installed to define the perimeter of the approved extraction area should be painted in a bright colour to alert all Quarry personnel of the location of the boundary.

The surveyed star posts which are steel grey in colour were observed around Cells 1A and 1B, a number of which had been disturbed during extraction operations. The recommended painting of the posts should assist to clearly define the boundary that should not be disturbed.

HR R3/22 There should be no disturbances within at least 1m of any surveyed boundary of an approved extraction area in Cell 1A. This requirement should be incorporated in each Job Safety and Environmental Analysis (see Improvement **HR I4/22**)

Many of the surveyed star posts were observed to be disturbed/pushed over during the initial activities around the boundary of the approved extraction areas.

HR R4/22 Additional marking in the form of a PVC pole up to 3.5m high (or an alternate system) should be placed above each surveyed boundary star post during the period when land clearing activities are undertaken in close proximity to assist operators of earthmoving equipment to easily observe and ensure that no disturbance occurs within at least 1m of the defined boundary.

Whilst painted star posts are visible, at ground level, it is important that the boundary is well recognised by earthmoving equipment operators. The additional marking would only need to be in place during the initial establishment of an active extraction area.

HR R5/22 The bund wall on the western side of Cell 1A (Photos 10 and 11) should be removed with the material brought back into the adjoining extraction area. The disturbed footprint should be rehabilitated and the boundary star posts (painted) re-instated.

Recent earthworks on the western side of Cell 1A has resulted in a bund wall approximately 1.5m to 2m high being constructed on its western side just beyond the boundary of Cell 1A. A number of the boundary star posts appear to have been covered during the earthworks.

HR R6/22 All groundwater piezometers on site should be fitted with monuments (with identifying reference numbers) and the deposited dust gauges within the Quarry should be better identified with a painted/engraved/panel displaying the monitoring site reference number.

Piezometer H2 (Photo 2) was observed to be without a monument and any external identification. Deposited dust gauge D10/EPL 3 (Photo 1) was also not appropriately numbered.

HR R7/22 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.

HR R8/22 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.

HR R9/22 The new Clearway software program to be installed for both the Old Northern Road and Haerses Road Quarries in November/December 2022 should ensure that the vehicles entering the Quarry are accounted for in the total traffic counts.

The current practice to control the total number of trucks entering and leaving the Quarry focusses upon the number of laden trucks departing the Quarry and not those unladen trucks entering the Quarry. It is important that the new software system accounts for both unladen vehicles entering and laden trucks leaving the Quarry.

HR R10/22 The SDS register for Haerses Road Quarry should be structured to record alphabetically the product type and manufacturer.

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.

HR R11/22 A general *Incident Response Checklist* should be prepared for the Haerses Road Quarry (similar to the Old Northern Road 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.

The recommended checklist will be beneficial for all required actions for the Haerses Road Quarry to be undertaken within the required timeframe.

HR R12/22 Appropriate water level loggers, or an alternate method of recording, should be installed at each of the on-site quarry dams and any new quarry dams.

The requirement for water level loggers is documented in Schedule 3 Condition 16(d). Reference to an alternate method of recording is suggested should Dixon Sand identify a more practical and cost effective way to record the information required.

- HR R13/22** The recently constructed stockpile of soil and related materials on Lots 176 and 177 should be relocated to an area already disturbed within the approved extraction areas – as soon as possible.

The soil and related materials recently stockpiled on Lots 176 and 177 to depths of up to 2.5m are positioned on naturally occurring topsoil. The stockpiling of this material will cause the deterioration in the viability of the naturally occurring soils beneath the stockpiles. These materials need to be relocated as soon as possible to ensure that the underlying topsoil remains viable for use in future rehabilitation. It is noted that this stockpiling activity is not documented in the Soil and Water Management Plan.

- HR R14/22** The Air Quality Management Plan should be updated to document the sandstone cutting operations to be undertaken within the Quarry.

The requirements in Schedule 3 Conditions 11(g) and 11(h) to describe the air quality mitigation measures relating to the sandstone cutting operation in the Air Quality Management Plan have not been addressed.

- HR R15/22** The Noise Management Plan should be updated to document the sandstone cutting operations within the Quarry.

The requirements in Schedule 3 Condition 8(g) to describe the noise mitigation measures relating to the sandstone cutting operation in the Noise Management Plan have not been addressed.

4.3 Suggested Improvements

- HR 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.

- HR I2/22** 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.

HR I3/22 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.

HR I4/22 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?

HR I5/22 The locations and identification of all dams and sediments basins within the quarry site should be clarified to ensure all dams and basins are correctly identified.

The identification and location of all dams and sediment basins will assist in the preparation of all documentation associated with the operation of the quarry and including the records required under Schedule 3 Condition 16(d).

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 (NO.1) P/L
4610 OLD NORTHERN ROAD
MAROOTA NSW 2756

08/09/2022

Dear Ms Churcher

**Haerses Road Quarry (DA165-7-2005)
Independent Auditor Endorsement**

I refer to your request (DA165-7-2005-PA-37) for the endorsement by the Planning Secretary of a suitably qualified and experienced team of experts to conduct the Independent Audit for the Haerses Road Quarry project (the **development**), DA165-7-2005 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 Planning 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 Environmental Audit for the development, in accordance with Schedule 5, Condition 13 of the consent and the department's *Independent Audit Post Approval Requirements (2020)* (**IAPAR**), as follows. 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 Maria Divis, Senior Compliance Officer, on 02 8275 1156 or compliance@planning.nsw.gov.au.

Yours sincerely

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

Julia Pope



Department of Planning and Environment

Team Leader Compliance - Metro
Compliance

As nominee of the Planning Secretary

Appendix 2

Independent Audit Declaration Forms

(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.

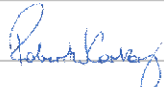
Notes:

- 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)

Name of Proposed Auditor Robert Corkery

Signature



Qualification Principal Environmental Consultant / Lead Auditor

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)

Name of Proposed Auditor Jack Flanagan

Signature 

Qualification Senior Environmental Consultant

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: OUT22/15787

Rob Corkery
RW Corkery & Co
rob@rwcorkery.com

13 September 2022

Subject: Haerses Road Quarry (DA165-7-2005-Mod-5) 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

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

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.

Yours sincerely

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

Larissa Borysko
A/Unit Head
REGULATORY OPERATIONS

Phone 131 555 **TTY** 133 677
Phone +61 2 9995 5555 **ABN** 43 692 285 758
(from outside NSW)

Locked Bag 5022
Parramatta
NSW 2124 Australia

4 Parramatta Square
12 Darcy St, Parramatta
NSW 2150 Australia

info@epa.nsw.gov.au
www.epa.nsw.gov.au

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

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.

Yours sincerely

A handwritten signature in black ink, appearing to be "Alison Kniha", written in a cursive style.

ALISON KNIHA
Catchment Protection Planning Manager

(no subject)



Kristine McKenzie <kmckenzie@thehills.nsw.gov.au>

To Rob Corkery

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



Reply

Reply All

Forward



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

Administration Centre, 3 Columbia Court Norwest NSW 2153

PO Box 7064, NORWEST NSW 2153 | DX 9966 Norwest

www.thehills.nsw.gov.au

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DISCLAIMER

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 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

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

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



 Reply

 Reply All

 Forward



Wed 5/10/2022 1:32 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

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Appendix 4

Compliance Review – Approvals

(Total No. of pages including blank pages = 81)

Table A4-1 DA 165-7-2005

Table A4-2 EPL 12513

Table A4-3 WAL 25941

Table A4-4 WAL 25956

Table A4-1
Compliance Review – Development Consent DA 165-7-2005

Page 1 of 52

Cond. No.	Conditional Requirement	Compliance Status	Basis for Compliance	Comments and Recommended Actions
SCHEDULE 2 – ADMINISTRATIVE CONDITIONS				
OBLIGATION TO MINIMISE HARM TO THE ENVIRONMENT				
1	In addition to meeting the specific performance measures and criteria established under this consent, the Applicant 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. It is recommended that extraction operations at the Quarry are being expanded in accordance with the Development consent and hence, limited opportunities have arisen to date for rehabilitation activities.
TERMS OF CONSENT				
2	The Applicant must carry out the development:			
2 (a)	generally in accordance with the EIS, EA (Mod 1), EA (Mod 2), MR (Mod 3), MR (Mod 4) and MR (Mod 5); and	Compliant	HR11-2019 HR12-2019 HR13-2019 HR14-2022 HR68-2022 HR69-2022 HR70-2022 Observations	The Quarry was found to be operating 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 Plans. <i>Note: The Development Layout Plan is shown in Appendix 1</i>	Non-compliant	HR67-2022 Observations	The Quarry layout was observed to reflect the Development Layout Plans included as Appendix 1 of DA 167-7-2005. 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 2(18)(c), 3(11)(g), 3(11)(h), 3(16)(d) and 3(37).
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 165-7-2005

Page 2 of 52

Cond. No.	Conditional Requirement	Compliance Status	Basis for Compliance	Comments and Recommended Actions
SCHEDULE 2 – ADMINISTRATIVE CONDITIONS				
TERMS OF CONSENT (Cont'd)				
4	The Applicant must comply with any written requirement/s of the Secretary arising from the Department's assessment of:	Compliant	HR61-2022 HR62-2022 HR63-2022 HR64-2022 HR91-2022 HR92-2022 Advice from Environmental Officer	It is noted that updated management plans were submitted to DPE on: <ul style="list-style-type: none"> - 29 November 2021 following the determination of MOD 3 and MOD 4; and - 29 September 2022 following the determination of MOD 5. The EMS and Appendices 1 – 5, 7, and 12 – 14 have been approved. Appendices 6 and 8 – 11 have not yet been approved and no written requirements from DPE are outstanding. Responses to actions arising from the review of previous Annual Reviews and the 2019 IEA were outlined in Annual Reviews during the audit period.
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; and			
4 (c)	the implementation of any actions or measures contained in these documents.			
LIMITS ON CONSENT				
5	The Applicant may carry out quarrying operations on the site until 14 February 2046.	Compliant	-	The approved timing for quarrying operations has not expired.
	Note: 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 in all respects other than the right to conduct quarrying operations until the rehabilitation of the site and those requirements and undertakings have been carried out to the standard required by the applicable conditions.	Compliant	-	The Quarry remains within the approved operational period.
6	The Applicant must not:	Compliant	HR61-2022 HR62-2022 HR63-2022 HR64-2022	Total extraction did not exceed 250,000tpa from the Quarry during the audit period with the following total production reported. <ul style="list-style-type: none"> - 2019/2020 = 62,303t. - 2020/2021 = 54,020t. - 2021/2022 = 162,724t.
6 (a)	extract more than 495,000 tonnes of quarry products per year from the quarry; and			It is noted that no processing operations were undertaken within the Quarry prior to 30 June 2023.

Table A4-1 (Cont'd)
Compliance Review – Development Consent DA 165-7-2005

Page 3 of 52

Cond. No.	Conditional Requirement	Compliance Status	Basis for Compliance	Comments and Recommended Actions
SCHEDULE 2 – ADMINISTRATIVE CONDITIONS (Cont'd)				
LIMITS ON CONSENT (Cont'd)				
6 (b)	Process (through on-site crushing and screening activities) more than 320,000 tonnes of quarry products per year.			
7	The Applicant must not transport more than 190,000 tonnes of quarry products per year to the Old Northern Road Quarry for processing.	Compliant	HR61-2022 HR62-2022 HR63-2022 HR64-2022	Total products transported to the Old Northern Road Quarry did not exceed 190 000tpa from the Quarry during the audit period. - 2019/2020 = 62,303t. - 2020/2021 = 52,870t. - 2021/2022 = 142,608t.
8	"Truck movements at the site (i.e. either arrival or dispatch), including truck movements between the site and the Old Northern Road Quarry, must not exceed: (a) 180 per day; and (b) 20 between 6.00am and 7.00am."	Compliant.	HR61-2022 HR62-2022 HR63-2022 HR64-2022 Dixon Sand Website. Observation.	Truck movement records within Annual Reviews during the audit period and truck movement summary data on the Dixon Sand website indicates compliance with truck movement limits. A spot check of weighbridge dockets for the Quarry also indicated compliance with truck movement limits.
9	The Applicant must not receive more than 250,000 tonnes of VENM and ENM (in total) at the site in any calendar year. No other materials classified as waste under the EPA's Waste Classification Guidelines 2009 (or its latest version) may be received or processed on the site.	Compliant	HR61-2022 HR62-2022 HR63-2022 HR64-2022	Total VENM/ENM material received at the Quarry did not exceed 250,000t during any calendar year during the audit period. - 2019 = 29,496t - 2020 = nil - 2021 = 8,662t - 2022 = nil (to June 2022).
10 10 (a)	The Applicant must: maintain accurate records of all VENM and ENM received at the site (including the date, time and quantity received); and	Compliant	HR61-2022 HR62-2022 HR63-2022 HR64-2022	Receipt of VENM to the HR Quarry commenced in June 2019. Details of VENM receipt at the site are maintained in the VENM register.

Table A4-1 (Cont'd)
Compliance Review – Development Consent DA 165-7-2005

Page 4 of 52

Cond. No.	Conditional Requirement	Compliance Status	Basis for Compliance	Comments and Recommended Actions
SCHEDULE 2 – ADMINISTRATIVE CONDITIONS (Cont'd)				
LIMITS ON CONSENT (Cont'd)				
10 (b)	include a copy of this data in the Annual Review.	Compliant	HR61-2022 HR62-2022 HR63-2022 HR64-2022	Amount of VENM/ENM received at the Quarry is reported in the Annual Review and a copy of the VENM/ENM Register is included as an appendix to the Annual Reviews.
STRUCTURAL ADEQUACY				
11	<p>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.</p> <p><i>"Notes:</i></p> <ul style="list-style-type: none"> <i>Under Part 6 of the EP&A Act, the Applicant is required to obtain construction and occupation certificates for any proposed building works;</i> <i>The Environmental Planning and Assessment (Development Certification and Fire Safety) Regulation 2021 sets out the requirements for the certification of the development."</i> 	Compliant	HR93-2022 Advice from Quarry Manager	<p>Building Information Certificate issued by the Hills Shire Council for the concrete slab required for Stage 1 of the Wet and Dry Processing Plant.</p> <p>New buildings (temporary weighbridge office, new break room and ablutions facilities) sighted during site inspection were nearing completion.</p> <p>Quarry Manger has been advised (verbally) that the Hills Shire Council does not require any certificates, permits or licences for these structures for up to 12 months following construction.</p>
DEMOLITION				
12	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. Previous site office was being renovated during site inspection.
PROTECTION OF PUBLIC INFRASTRUCTURE				
13	Unless the Applicant and the applicable authority agree otherwise the Applicant must:	Compliant	HR61-2022 HR62-2022 HR63-2022 HR64-2022	Section 94 monthly payment statements included in the 2019/2020, 2020/2021 and 2021/2022 Annual Reviews. No other infrastructure damaged during the audit period.
13 (a)	repair, or pay the full costs associated with repairing, any public infrastructure that is damaged by the development; and			

Table A4-1 (Cont'd)
Compliance Review – Development Consent DA 165-7-2005

Page 5 of 52

Cond. No.	Conditional Requirement	Compliance Status	Basis for Compliance	Comments and Recommended Actions
SCHEDULE 2 – ADMINISTRATIVE CONDITIONS (Cont'd)				
PROTECTION OF PUBLIC INFRASTRUCTURE (Cont'd)				
13 (b)	relocate, or pay the full costs associated with relocating, any public infrastructure that needs to be relocated as a result of the development.	Not Triggered	Advice from Environmental Officer	No public infrastructure was required to be relocated during the audit period.
OPERATION OF PLANT EQUIPMENT				
14	The Applicant must ensure that all the plant and equipment used at the site, or to monitor the performance of the development is:	Compliant	Observations HR94-2022	Plant and equipment used at the Quarry, including monitoring equipment, were considered to be compliant. Maintenance records indicated regular maintenance, as appropriate. One Improvement Notice (NTCE0009352) was issued under Section 191 of the <i>Work Health and Safety Act 2011</i> during the audit period. The notice indicated that screening equipment on site was missing guards and/or had damaged guards.
14 (a)	maintained in a proper and efficient condition; and			
14 (b)	operated in a proper and efficient manner.	Compliant.	Advice from Environmental Officer	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.
Section 94 Contribution				
15	The Applicant must pay Council a monthly 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	HR61-2022 HR62-2022 HR63-2022 HR64-2022	Section 94 monthly payment statements included in the 2019/2020, 2020/2021 and 2021/2022 Annual Reviews.
Production Data				
16	The Applicant must:	Compliant.	HR95-2022 HR96-2022 HR96-2022	Annual Returns containing production data submitted to DRG for 2018/2019, 2019/2020 and 2020/2021 periods. It is noted that the Annual Return documentation required to record annual quarry production in 2021/2022 has not yet been provided by MEG.
16 (a)	provide calendar year annual quarry production data to MEG using the standard form for that purpose; and			

Table A4-1 (Cont'd)
Compliance Review – Development Consent DA 165-7-2005

Page 6 of 52

Cond. No.	Conditional Requirement	Compliance Status	Basis for Compliance	Comments and Recommended Actions
SCHEDULE 2 – ADMINISTRATIVE CONDITIONS (Cont'd)				
OPERATION OF PLANT EQUIPMENT (Cont'd)				
Production Data (Cont'd)				
16 (b)	include a copy of this data in the Annual Review.	Compliant	HR61-2022 HR62-2022 HR63-2022 HR64-2022	Production data included in Annual Reviews during the audit period.
Compliance				
17	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	All employees and contractors are required to undergo inductions which include the identification of conditions relevant to their positions. See Improvement HR I1/22. Regular toolbox talks are used to highlight key conditions relevant to site personnel.
LIMITS OF EXTRACTION				
Buffer Zones				
18	Within 6 months of the determination of Modification 2, the Applicant must:	Compliant	HR32-2019.	Dixon Sand engaged McKinlay Morgan and Associates Pty Ltd to survey boundaries at the Quarry.
18 (a)	engage a registered surveyor to mark out the boundaries of the: • approved limits of extraction; • buffer zones shown in Appendix 2; and • MTSGS buffer zone;			
18 (b)	submit a survey plan of these boundaries to the Secretary; and			
18 (c)	ensure that the boundaries of each operational extraction area are clearly marked on site in a permanent manner that allows operating staff and inspecting officers to clearly identify these limits, to the satisfaction of the Secretary.	Non-compliant	Observations Photos 8 to 12	Surveyed star posts and connecting white cord delineating extraction area boundaries were observed during the site inspection. However, some posts were observed to be missing and/or had been removed/buried along the southern and western boundaries of the MOD 1 extraction area during perimeter bund construction/maintenance. See Recommendations HR R1/2022 to HR R5/2022.

Table A4-1 (Cont'd)
Compliance Review – Development Consent DA 165-7-2005

Page 7 of 52

Cond. No.	Conditional Requirement	Compliance Status	Basis for Compliance	Comments and Recommended Actions
SCHEDULE 2 – ADMINISTRATIVE CONDITIONS (Cont'd)				
LIMITS OF EXTRACTION (Cont'd)				
Buffer Zone (Cont'd)				
18 (c) Cont'd	The Applicant must not undertake any quarrying operations within the buffer zones shown in Appendix 2. <i>Note: This condition does not prevent the construction or maintenance of acoustic bunds shown in Appendix 3.</i>	Compliant	Observations HR80-2022	Quarrying operations are restricted to the designated extraction areas. Disturbance in the Maroota State Forest buffer zone is described in the BRMP as pre-existing disturbance which occurred prior to Dixon Sands' acquisition of the Quarry site.
Maximum Extraction Depth				
19	The Applicant must not undertake any extraction within 2 metres of the highest recorded wet weather groundwater level of both the MTSGS and the SCBGS.	Compliant	HR78-2022 Advice from Managing Director	A Maximum Extraction Depth Map is included in SWMP. Quarry personnel regularly check extraction depth progress using a GPS. A procedure for engaging a surveyor once extraction reaches within 5m of the maximum extraction depth is outlined in the SWMP.
20	Within 6 months of the determination of Modification 1, the Applicant must:	Compliant	As below	All requirements completed by 25 May 2018, i.e. well within 6 months from 22 January 2018.
20 (a)	establish the highest recorded wet weather groundwater levels for the site based on all available local and site-specific groundwater monitoring data; and	Compliant	HR01-2019	Highest recorded wet weather groundwater levels for the site confirmed by Dundon Consulting Pty Limited on 15 May 2018.
20 (b)	engage a suitably qualified and experienced person to prepare a Maximum Extraction Depth Map (contour map or similar) for the development to ensure compliance with Condition 19 above and submit this map to the Secretary for approval. Within 14 days of the approval of the Maximum Extraction Depth Map, the Applicant must submit a copy of the approved map and the supporting groundwater monitoring data to DPE Water.	Compliant Compliant	HR01-2019 HR01-2019	Maximum Extraction Depth Map prepared by Dundon Consulting Pty Limited. Maximum Extraction Depth Map submitted to DPE on 18 May 2018 and approved on 18 May 2018. Draft SWMP containing Maximum Extraction Depth Map and groundwater monitoring data submitted to DPI Water on 25 May 2018.
21	The Applicant must comply with the extraction depths specified in the approved Maximum Extraction Depth Map, to the satisfaction of the Secretary.	Compliant	HR78-2022. Advice from Managing Director.	A Maximum Extraction Depth Map is included in SWMP. Quarry personnel regularly check extraction depth progress using a GPS. A procedure for engaging a surveyor once extraction reaches within 5m of the maximum extraction depth is outlined in the SWMP.

Table A4-1 (Cont'd)
Compliance Review – Development Consent DA 165-7-2005

Page 8 of 52

Cond. No.	Conditional Requirement	Compliance Status	Basis for Compliance	Comments and Recommended Actions
SCHEDULE 2 – ADMINISTRATIVE CONDITIONS (Cont'd)				
LIMITS OF EXTRACTION (Cont'd)				
Maximum Extraction Depth (Cont'd)				
22	The Applicant must review and update the Maximum Extraction Depth Map:	Compliant	HR78-2022 HR61-2022 HR62-2022 HR63-2022 HR64-2022	<p>The baseline groundwater monitoring program commenced on 30 July 2018. The groundwater monitoring assessment prepared following this program was submitted to DPE Water on 4 September 2020. The program was approved by NRAR in correspondence dated 25 February 2021 and 24 May 2021 and DPE acknowledged satisfaction with the outcome on 11 June 2021.</p> <p>The Maximum Extraction Depth Map contained within the SWMP is dated 27 March 2020. Reviews of the Maximum Extraction Depth Map are noted in Annual Reviews during the audit period.</p>
22 (a)	annually, for the duration of the baseline groundwater monitoring program (see Condition 17 of Schedule 3); and			
22 (b)	"within 3 months of the completion of each Independent Environmental Audit (see Condition 13 of Schedule 5), to the satisfaction of the Secretary."	Compliant	HR78-2022	The Maximum Extraction Depth Map was reviewed by Golder on 27 March 2020 following completion of the 2019 Independent Environmental Audit.

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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><i>Table 1: Operating hours</i></p> <table><tr><th>Activity</th><th>Permissible Hours</th></tr><tr><td>Quarrying operations (excluding truck arrival, loading and dispatch)</td><td>7.00 am to 6.00 pm Monday to Saturday At no time on Sundays or public holidays</td></tr><tr><td>Truck arrival, loading and dispatch</td><td>6.00 am to 6.00 pm Monday to Saturday At no time on Sundays or public holidays</td></tr><tr><td>Acoustic bund construction and road and intersection works on Haerses Road and Wisemans Ferry Road</td><td>8.00 to 5.00 pm Monday to Friday At no time on Saturdays, Sundays or public holidays</td></tr><tr><td>Maintenance</td><td>At any time, provided that these activities are not audible at any privately-owned residence outside of permissible hours for quarrying operations</td></tr></table>	Activity	Permissible Hours	Quarrying operations (excluding truck arrival, loading and dispatch)	7.00 am to 6.00 pm Monday to Saturday At no time on Sundays or public holidays	Truck arrival, loading and dispatch	6.00 am to 6.00 pm Monday to Saturday At no time on Sundays or public holidays	Acoustic bund construction and road and intersection works on Haerses Road and Wisemans Ferry Road	8.00 to 5.00 pm Monday to Friday At no time on Saturdays, Sundays or public holidays	Maintenance	At any time, provided that these activities are not audible at any privately-owned residence outside of permissible hours for quarrying operations	Compliant	HR61-2022 HR62-2022 HR63-2022 HR64-2022 Observation	<p>No complaints regarding operations outside of the approved hours were received during the audit period.</p> <p>A spot check of truck despatch records indicated that truck arrival and despatch occurred within approved operating hours.</p>
Activity	Permissible Hours													
Quarrying operations (excluding truck arrival, loading and dispatch)	7.00 am to 6.00 pm Monday to Saturday At no time on Sundays or public holidays													
Truck arrival, loading and dispatch	6.00 am to 6.00 pm Monday to Saturday At no time on Sundays or public holidays													
Acoustic bund construction and road and intersection works on Haerses Road and Wisemans Ferry Road	8.00 to 5.00 pm Monday to Friday At no time on Saturdays, Sundays or public holidays													
Maintenance	At any time, provided that these activities are not audible at any privately-owned residence outside of permissible hours for quarrying operations													
2	<p>The following activities may be carried out outside the hours specified in Condition 1 above:</p>													
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)	<p>emergency work to avoid the loss of lives, property or to prevent environmental harm.</p> <p>In such circumstances, the Applicant must notify the Secretary and affected residents prior to undertaking the activities, or as soon as is practical thereafter.</p>	Not Triggered	Advice from Environmental Officer	No emergency work was required outside of approved operational hours during the audit period.										

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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 operational noise generated by the development (excluding acoustic bund construction) does not exceed the criteria in Table 2 at any residence on privately-owned land.</p> <p><i>Table 2: Operational noise criteria dB(A)</i></p> <table><tr><th>Receiver</th><th>Day LAeq (15 minute)</th><th>Shoulder (6.00 am to 7.00 am) LAeq (15 minute)</th><th>LA(max)</th></tr><tr><td>R05, R06</td><td>41</td><td>35</td><td rowspan="4">52</td></tr><tr><td>R03</td><td>40</td><td>37</td></tr><tr><td>R13, R14</td><td>40</td><td>36</td></tr><tr><td>All other receivers</td><td>40</td><td>35</td></tr></table>	Receiver	Day LAeq (15 minute)	Shoulder (6.00 am to 7.00 am) LAeq (15 minute)	LA(max)	R05, R06	41	35	52	R03	40	37	R13, R14	40	36	All other receivers	40	35	Compliant	HR61-2022 HR62-2022 HR63-2022 HR64-2022	Attended noise monitoring undertaken during June 2020, June 2021, December 2021 and June 2022 indicated that predicted noise impacts associated with the Quarry were compliant with the relevant assessment criteria. These results incorporate setback calculations which utilise at-source noise monitoring to determine predicted noise impacts.
Receiver	Day LAeq (15 minute)	Shoulder (6.00 am to 7.00 am) LAeq (15 minute)	LA(max)																		
R05, R06	41	35	52																		
R03	40	37																			
R13, R14	40	36																			
All other receivers	40	35																			
	Noise generated by the development must be measured in accordance with the relevant requirements and exemptions (including certain meteorological conditions) of the <i>NSW Noise Policy for Industry</i> . Appendix 5 sets out the meteorological conditions under which these criteria apply and the requirements for evaluating compliance with these criteria.	Compliant	HR61-2022 HR62-2022 HR63-2022 HR64-2022	Noise compliance reports contained in Annual reviews during the audit period indicate that compliance noise monitoring was undertaken in accordance with the <i>NSW Noise Policy for Industry</i> .																	
	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.	Compliant	Advice from Environmental Officer	The NMP indicates that noise agreements exist between Dixon Sand and the owners of residences to the east of Hitchcock Road and residence R2. This agreement was formed in 2005 and DPE was made aware of the agreement during the Modification 1 submission process.																	
	<i>"Note: Should an agreement with a landowner be terminated for any reason, the Applicant must comply with the noise criteria in Table 2. Receiver locations are shown in Appendix 5"</i>	-	-	Noted.																	
	The Applicant must manage noise from construction activities (including acoustic bund construction) in accordance with the noise management levels defined in Table 2 of the Interim Construction Noise Guideline, except where the Applicant has an agreement with the relevant landowner to generate higher noise levels, and the Applicant has advised the Department in writing of the terms of the agreement.	Compliant.	HR61-2022 HR62-2022 HR63-2022 HR64-2022	Noise compliance monitoring reports contained within the Annual Reviews during the audit period indicate compliance with the relevant noise criteria. The NMP indicates that noise agreements exist between Dixon Sand and the owners of residences to the east of Hitchcock Road and residence R2.																	

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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)				
5	The Applicant must:			
5 (a)	design, construct and maintain the acoustic bunds shown in Appendix 3 to the satisfaction of the Secretary; and	Not Triggered	Observations HR82-2022	Construction of acoustic bunds has not yet commenced. Construction details and management measures are outlined in the Construction Noise Management Plan.
5 (b)	limit all bund construction activities to a period of not more than four weeks in any calendar year, unless otherwise approved by the Secretary.	Not Triggered		
6	Prior to the construction of any acoustic bunds, the Applicant must prepare an Acoustic Bund Construction Noise Management Plan, which details the procedures that would be undertaken to:	Not Triggered		
6 (a)	keep surrounding residents informed of the proposed timing and duration of bund construction;	Not Triggered		
6 (b)	minimise and mitigate the noise impacts generated by the works; and	Not Triggered		
6 (c)	receive, handle and respond to complaints relating to the works.	Not Triggered		
	The Applicant must implement the Acoustic Bund Construction Noise Management Plan as approved by the Secretary.	Not Triggered		
Sandstone Cutting Shed Construction				
6A	The Applicant must design and construct the sandstone cutting shed with adequate noise attenuation measures to ensure that it will achieve compliance with the noise criteria in this consent at all times.	Not Triggered	Observation	Construction of the sandstone cutting shed had not commenced at the time of the audit site inspection.
Operating Conditions				
7	The Applicant must:			
7 (a)	take all reasonable steps to minimise the construction, operational, low frequency and road transportation noise of the development;	Compliant	HR77-2022	Noise management measures are outlined in the NMP for the Quarry.

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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)				
7 (b)	take all reasonable steps to minimise the noise impacts of the development during noise-enhancing meteorological conditions;	Compliant	HR77-2022	Reactive management measures targeting noise in the event of adverse meteorological conditions are outlined in Section 5.2 of the NMP.
7 (c)	operate a noise management system to guide the day to day planning of quarrying operations and the implementation of noise mitigation measures to ensure compliance with the relevant conditions of this consent;	Compliant	HR77-2022	The NMP, including proactive and reactive noise management measures outlined in Section 5, is used to guide quarry operations to ensure compliance with the relevant noise criteria.
7 (d)	carry out regular attended noise monitoring to determine whether the development is complying with the relevant conditions of this consent; and	Compliant	HR61-2022 HR62-2022 HR63-2022 HR64-2022	Compliance noise monitoring is undertaken twice annually at the Quarry.
7 (e)	modify or stop operations on the site to comply with the relevant conditions of this consent. <i>Note: Monitoring under this consent is not required at all residences and the use of representative monitoring locations can be used to demonstrate compliance with criteria, if agreed to by the Secretary.</i>	Compliant.	HR77-2022 HR61-2022 HR62-2022 HR63-2022 HR64-2022	No exceedances of the relevant noise criteria have been recorded during compliance noise monitoring rounds. Noise management measures, including modification to Quarry operations, are outlined in the NMP.
Noise Management Plan				
8	The Applicant must prepare a Noise Management Plan for the development to the satisfaction of the Secretary. This plan must:	Compliant	HR77-2022 Advice from Environmental Officer	The current NMP (May 2022) was submitted to DPE on 29 November 2021 and has been approved.
8 (a)	be prepared in consultation with the EPA;	Compliant	HR77-2022	Consultation included in Appendix 2 of the NMP.
8 (b)	be submitted to the Secretary for approval within 6 months of the determination of Modification 1, unless otherwise agreed by the Secretary;	Compliant	HR34-2019	Mod 1 was approved on 22 January 2018. The NMP was submitted to DPE on 18 July 2018.

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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 (Cont'd)				
8 (c)	describe the measures to be implemented to ensure: <ul style="list-style-type: none"> compliance with the noise criteria and operating conditions of this consent; best practice management is being employed; and the noise impacts of the development are minimised during noise-enhancing meteorological conditions. 	Compliant	HR77-2022	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"> reviewing meteorological forecasts on a daily basis; evaluating and reporting noise monitoring results; and undertaking regular reviews of the plan.
8 (d)	describe the proposed noise management system;	Compliant	HR77-2022	The NMP represents the noise management system for the Quarry.
8 (e)	include a noise monitoring program that: <ul style="list-style-type: none"> is capable of evaluating the performance of the development; includes a protocol for determining any exceedances of the relevant conditions of this consent; and effectively supports the noise management system. The Applicant must implement the Noise Management Plan as approved by the Secretary.	Compliant	HR77-2022	Section 6 of the NMP 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.
		Compliant	HR61-2022 HR62-2022 HR63-2022 HR64-2022	Noise monitoring results reported in Annual Reviews during the audit period indicate that monitoring frequency matches that specified in the NMP. Results indicating no exceedances of relevant noise monitoring criteria indicate that management measures are being implemented.
8 (f)	Include a program to either: <ul style="list-style-type: none"> attenuate the dump trucks prior to commencing quarrying operations in Stages 4 or 5; or identify alternative mitigation measures and demonstrate that these measures will be implemented to achieve compliance with the noise criteria in this consent at all times; and 	Not Triggered	HR77-2022	Quarrying operations had not yet commenced in the Stage 4 or Stage 5 areas at the time of the site inspection. Sections 2.6 and 5.1 of the NMP identify that noise attenuation measures, or alternative mitigation measures, must be developed and implemented prior to the commencement of quarrying operations in these areas.

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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 (Cont'd)																			
8 (g)	Describe the noise mitigation measures that will be implemented in the operation of plant and equipment to minimise noise emissions from sandstone cutting to ensure compliance with the noise criteria in this consent at all times. The Applicant must implement the Noise Management Plan as approved by the Secretary.	Non-compliant	HR77-2022	The approved NMP (May 2022) does not include measures targeting sandstone cutting operations, and Condition 8(g) is not listed as a development consent condition in Section 21. It is recognised that whilst the Noise Management Plan had not been modified at the time of the audit site inspection to address the sandstone cutting operations, the document was modified and submitted to DPE for approval on 28 November 2022. (see Recommendation HR R15/22)															
AIR QUALITY																			
Air Quality Impact Assessment Criteria																			
9	<p>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.</p> <p><i>Table 3: Air quality criteria</i></p> <table><tr><th>Pollutant</th><th>Averaging Period</th><th>Criterion</th></tr><tr><td>Particulate matter < 10 µm (PM₁₀)</td><td>Annual</td><td>a,d 30 µg/m³</td></tr><tr><td>Particulate matter < 10 µm (PM₁₀)</td><td>24 hour</td><td>b 50 µg/m³</td></tr><tr><td>Total suspended particulates (TSP)</td><td>Annual</td><td>a,d 90 µg/m³</td></tr><tr><td>^c Deposited dust</td><td>Annual</td><td>b 2 g/m²/month a,d 4 g/m²/month</td></tr></table> <p>Notes to Table 3:</p> <p>a Cumulative impact (ie increase in concentrations due to the development plus background concentrations due to all other sources).</p> <p>b Incremental impact (ie increase in concentrations due to the development alone, with zero allowable exceedances of the criteria over the life of the development).</p> <p>c Deposited dust is to be assessed as insoluble solids as defined by Standards Australia, AS/NZS 3580.10.1:2003: Methods for Sampling and Analysis of Ambient Air - Determination of Particulate Matter - Deposited Matter - Gravimetric Method.</p>	Pollutant	Averaging Period	Criterion	Particulate matter < 10 µm (PM ₁₀)	Annual	a,d 30 µg/m ³	Particulate matter < 10 µm (PM ₁₀)	24 hour	b 50 µg/m ³	Total suspended particulates (TSP)	Annual	a,d 90 µg/m ³	^c Deposited dust	Annual	b 2 g/m ² /month a,d 4 g/m ² /month	Compliant	HR61-2022 HR62-2022 HR63-2022 HR64-2022	<p>Annual Reviews during the audit period record multiple exceedances of the relevant air quality criteria, which are attributed to either non-Quarry related activities and extraordinary weather events (e.g. dust storms, bushfires) or occurred outside of Quarry operating hours. No non-compliances are reported for PM₁₀ or TSP.</p> <p>It is noted that, whilst exceedances for deposited dust at dust gauge D10 occurred during the 2020/2021 period, the likely cause of the dust exceedances were attributed to non-Quarry related activities (e.g. paddock slashing, helicopter staging). Whilst the upper 4g/m²/month criterion is cumulative (i.e. includes all other sources), the requirement is that the development does not cause exceedances of the criterion.</p>
Pollutant	Averaging Period	Criterion																	
Particulate matter < 10 µm (PM ₁₀)	Annual	a,d 30 µg/m ³																	
Particulate matter < 10 µm (PM ₁₀)	24 hour	b 50 µg/m ³																	
Total suspended particulates (TSP)	Annual	a,d 90 µg/m ³																	
^c Deposited dust	Annual	b 2 g/m ² /month a,d 4 g/m ² /month																	

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Cond. No.	Conditional Requirement	Compliance Status	Basis for Compliance	Comments and Recommended Actions
SCHEDULE 3 SPECIFIC ENVIRONMENTAL CONDITIONS (Cont'd)				
AIR QUALITY (Cont'd)				
Air Quality Impact Assessment Criteria (Cont'd)				
9 Cont'd	d Excludes extraordinary events such as bushfires, prescribed burning, dust storms, sea fog, fire incidents or any other activity agreed by the Secretary.			
10 10 (a)	The Applicant must: implement best practice management to minimise the dust emissions of the development;	Compliant	HR76-2022 Observations	The AQMP for the Quarry includes best practice management measures targeting the minimisation of dust emissions.
10 (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"> a monitoring device that is connected to an alarm system at the site;• trigger level(s) as agreed with the EPA; and procedures to cease or modify operations in the event that the trigger level(s) are reached, to ensure compliance with the criteria in Condition 9 above, to the satisfaction of the EPA;" 	Compliant	HR76-2022 Observations Advice from Environmental Officer	A continuous air quality monitoring system, including a PM ₁₀ monitoring station and a weather station, have been installed at the monitoring location near Maroota Public School. An alarm system indicates exceedances of the 42µg/m ³ 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. The alarm was triggered on multiple occasions during the audit period, none of which were attributed to the Quarry's activities.
10(c)	regularly 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	HR76-2022 Advice from Environmental Officer HR61-2022 HR62-2022 HR63-2022 HR64-2022	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.
10 (d)	minimise the air quality impacts of the development during adverse meteorological conditions and extraordinary events (see note under Table 3);	Compliant	HR76-2022 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.

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Cond. No.	Conditional Requirement	Compliance Status	Basis for Compliance	Comments and Recommended Actions
SCHEDULE 3 SPECIFIC ENVIRONMENTAL CONDITIONS (Cont'd)				
AIR QUALITY (Cont'd)				
Air Quality Impact Assessment Criteria (Cont'd)				
10 (e)	monitor and report on compliance with the relevant air quality conditions in this consent; and	Compliant	HR61-2022 HR62-2022 HR63-2022 HR64-2022	Air quality monitoring and compliance with relevant criteria and trigger values was reported in the Annual reviews during the audit period.
10 (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 are consistent with the approved development. Both temporary and progressive rehabilitation was observed during the site inspection.
Air Quality Management Plan				
11	The Applicant must prepare an Air Quality Management Plan for the development to the satisfaction of the Secretary. This plan must:	Compliant	HR76-2022 HR98-2022	The Quarry currently operates in accordance with the AQMP as approved by the DPE (version dated April 2020). It is noted that an updated AQMP (version dated November 2021) has been prepared and was submitted to DPE on 29 November 2021. This version has not yet been approved.
11 (a)	be prepared in consultation with the EPA;	Compliant	HR76-2022	Appendix 2 of the AQMP summarises the consultation outcomes with the EPA and provides a copy of the correspondence.
11(c)	describe the measures to be implemented to ensure: <ul style="list-style-type: none"> compliance with the air quality criteria and operating conditions of this consent; best practice management is being employed; and the air quality impacts of the development are minimised during adverse meteorological conditions and extraordinary events; 	Compliant	HR76-2022	The AQMP includes best practice management measures, measures addressing impacts of weather conditions, and procedures to ensure the implementation of management measures.
11 (d)	describe the proposed air quality management system; and	Compliant	HR76-2022	The AQMP outlines the air quality management system employed at the Quarry.

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Cond. No.	Conditional Requirement	Compliance Status	Basis for Compliance	Comments and Recommended Actions
SCHEDULE 3 SPECIFIC ENVIRONMENTAL CONDITIONS (Cont'd)				
AIR QUALITY (Cont'd)				
Air Quality Management Plan (Cont'd)				
11 (e)	include an air quality monitoring program that <ul style="list-style-type: none"> is capable of evaluating the performance of the development and informing day to day operational decisions; includes a protocol for determining any exceedances of the relevant conditions of this consent; and effectively supports the air quality management system. 	Compliant	HR76-2022	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.
11 (f)	Include a program to implement the air quality emissions controls detailed in MR (Mod 3) including the sealing of internal haul roads. Relevant controls must be implemented before: <ul style="list-style-type: none"> any increase in extractive operations above 250,000 tonnes of product per year; and the commencement of quarrying operations in Stages 4 or 5. 	Compliant	HR99-2022	An updated AQMP (version dated November 2021) has been prepared and was submitted to DPE on 29 November 2021. This version has not yet been approved. The requirement to seal internal haul rods prior to increasing extractive operations above 250 000tpa and the commencement of extraction in Stage 4 and 5 areas is outlined in Section 5.1 of the AQMP (November 2021).
11 (g)	Describe the mitigation measures that will be implemented in the sandstone cutting shed during the processing of extracted sandstone and detail how these measures will achieve compliance with the air quality criteria in this consent at all times; and	Non-compliant	HR76-2022 HR99-2022	The approved AQMP (April 2020) and the latest (unapproved version of the AQMP (version dated November 2021) does not include measures targeting sandstone cutting operations. It is recognised that whilst the Air Quality Management Plan had not been modified at the time of the audit site inspection to address the sandstone cutting operations, the document was modified and submitted to DPE for approval on 28 November 2022. (see Recommendation HR R14/22)
11 (h)	Describe the mitigation measures that will be implemented in the operation of plant and equipment to minimise dust emissions from sandstone cutting to ensure compliance with the air quality criteria in this consent at all times.	Non-compliant	HR76-2022 HR99-2022	The approved AQMP (April 2020) and the latest (unapproved version of the AQMP (version dated November 2021) does not include measures targeting sandstone cutting operations. It is recognised that whilst the Air Quality Management Plan had not been modified at the time of the audit site inspection to address the sandstone cutting operations, the document was modified and submitted to DPE for approval on 28 November 2022. (see Recommendation HR R14/22)

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Cond. No.	Conditional Requirement	Compliance Status	Basis for Compliance	Comments and Recommended Actions
SCHEDULE 3 SPECIFIC ENVIRONMENTAL CONDITIONS (Cont'd)				
AIR QUALITY (Cont'd)				
Air Quality Management Plan (Cont'd)				
11 (h) Cont'd	The Applicant must implement the Air Quality Management Plan as approved by the Secretary.	Compliant	HR76-2022	The high level review of the AQMP indicates that it has been satisfactorily implemented.
Meteorological Monitoring				
12	For the life of the development, the Applicant must ensure that there is a suitable meteorological station operating in the vicinity of Maroota Public School 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 has been installed and was operational during the audit period at the relevant monitoring location adjacent to Maroota Public School.
Greenhouse Gas Emissions				
13	The Applicant must implement all reasonable and feasible measures to minimise the release of greenhouse gas emissions from the site.	Compliant	HR76-2022	Management measures targeting the minimisation of greenhouse gas emissions are included in Section 5 of the AQMP.
SOIL AND WATER				
	Note: Under the <i>Water Act 1912</i> and/or the <i>Water Management Act 2000</i> , the Applicant is required to obtain all necessary approvals and/or water licences for the development.	Compliant	HR19-2019 HR20-2019 HR21-2019 HR22-2019	Dixon Sand hold WAL25956 (Works Approval 10CA105044) and WAL25941 (Works Approval 10CA104191) for the Quarry, representing a total allocation of 182ML.
Water Supply				
14	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.	Compliant	HR61-2022 HR62-2022 HR63-2022 HR64-2022	Water usage reporting (Annual Reviews) indicates that water usage is significantly below the total water allocation.
Water Discharges				
15	The Applicant must comply with the discharge limits in any EPL, or with Section 120 of the POEO Act.	Not Triggered	-	No water discharges from the Quarry were recorded during the audit period.

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Cond. No.	Conditional Requirement	Compliance Status	Basis for Compliance	Comments and Recommended Actions
SCHEDULE 3 SPECIFIC ENVIRONMENTAL CONDITIONS (Cont'd)				
SOIL AND WATER (Cont'd)				
Groundwater Management				
16	Prior to the commencement of quarrying operations within the Mod 1 extraction area, the Applicant must:	-	-	-
16 (a)	install additional monitoring bores in accordance with EA (Mod 1);	Compliant	HR25-2019. Observations.	Monitoring bores required in accordance with the Mod 1 Environmental Assessment were sighted during the site inspection. Correspondence between Dixon Sand and the Natural Resource Access Regulator indicate that additional bores were installed.
16 (b)	install one additional monitoring bore in the south-western corner of the Mod 1 extraction area;	Compliant	HR75-2022	Monitoring bore BH5 in south-western corner of MOD1 extraction area shown in Environmental Monitoring Locations plan.
16 (c)	install loggers in each on-site bore to enable continuous groundwater level monitoring;	Compliant	HR78-2022 Observation.	The SWMP indicates that bores are equipped with continuous data loggers. A logger was observed in monitoring bore H2 during the site inspection, however, the bore was not fitted with a covering monument (see Recommendation HR R6/22).
16 (d)	install water level loggers in all existing on-site quarry dams and in new quarry dams when constructed; and	Non-compliant	HR75-2022 HR78-2022 HR61-2022 HR62-2022 HR63-2022 HR64-2022	Extraction has commenced in the MOD 1 area and water level data loggers have not been installed in on-site dams. See Recommendation HR R12/22. Surface water levels in on site dams were not presented in Annual Reviews during the audit period. The locations of all on-site dams, and the distinction between dams and sediment basins, is not clear in the SWMP or Environmental Monitoring Locations documents. See Improvement HR I5/22.
16 (e)	carry out an aquifer pumping test within the SCBGS, to the satisfaction of DPE Water.	Compliant	HR25-2019 HR26-2019	Records indicate that Dixon Sand submitted evidence of aquifer test pumping to Dol on 16 November 2018. Section 1.3.3 of the latest (unapproved) version of the SWMP (version dated November 2021) indicates that DPIE Water and NRAR indicated satisfaction with the aquifer pumping tests on 26 November 2019.

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)				
SOIL AND WATER (Cont'd)				
Groundwater Management (Cont'd)				
17.	Prior to commencing quarrying operations within the MTSGS buffer zone, the Applicant must complete a baseline groundwater monitoring program, in consultation with DPE Water and to the satisfaction of the Secretary. The program must include monthly monitoring of groundwater levels and quality within the MTSGS buffer zone for a period of not less than 2 years.	Compliant	HR100-2022 HR61-2022 HR62-2022 HR63-2022 HR64-2022	Extraction has commenced within the MTSGS buffer zone (MOD 1 extraction area Cell 1B). The baseline groundwater monitoring program commenced on 30 July 2018. The groundwater monitoring assessment prepared following this program was submitted to DPE Water on 4 September 2020. The program was approved by NRAR in correspondence dated 25 February 2021 and 24 May 2021 and DPE acknowledged satisfaction with the outcome on 11 June 2021.
	The Applicant must not commence quarrying operations within the MTSGS buffer zone without the prior approval of the Secretary.	Compliant	HR100-2022	The groundwater monitoring program was approved by NRAR in correspondence dated 25 February 2021 and 24 May 2021 and DPE acknowledged that the pre-extraction requirements had been met on 11 June 2021.
18.	The Applicant must ensure that groundwater in the regional groundwater sources 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 DPE Water to determine the basis upon which extraction may recommence.	Compliant	HR78-2022	Section 5.2 outlines a groundwater monitoring program which covers groundwater quality and inflow volumes. Tables 6.3 and 6.5 outline appropriate procedures in the event that groundwater is intercepted or contaminated.
	Note: Perched groundwater lenses that are above the regional groundwater source may be intercepted, however Water Access Licences must be held to account for all groundwater taken.	Compliant	HR78-2022	Section 5.2.2 of the SWMP identifies measures to be implemented to estimate the volume of any groundwater inflows resulting from the interception of perched groundwater lenses. Table 6.5 indicates that additional licencing would be sought in the event that inflows in excess of licence limits are identified.

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Cond. No.	Conditional Requirement	Compliance Status	Basis for Compliance	Comments and Recommended Actions
SCHEDULE 3 SPECIFIC ENVIRONMENTAL CONDITIONS (Cont'd)				
SOIL AND WATER (Cont'd)				
Soil and Water Management				
19.	The Applicant must prepare a Soil and Water Management Plan for the development to the satisfaction of the Secretary. This plan must:	Compliant	HR78-2022 HR100-2022	The current SWMP (November 2020) has been approved. It is noted that an updated SWMP (November 2021) was submitted to DPE on 29 November 2021 and resubmitted to DPE on 14 December 2021 but has not yet been approved. It is noted that the current or updated version of the SWMP does not document the soil stockpiling practices observed on Lots 176 and 177. The soil materials are stockpiled up to 2.5m high on naturally occurring soils (see Recommendation HR R13/22).
19. (a)	be prepared by a suitably qualified and experienced person/s approved by the Secretary;	Compliant	HR101-2022	DPE endorsement of Chris Bonomini and Melissa Swan to prepare the current SWMP. DPE endorsement of Hunsamon Churcher and Christopher Churcher to prepare the latest (unapproved) version of the SWMP.
19. (b)	be prepared in consultation with the EPA and DPE Water;	Compliant	HR78-2022	Consultation with EPA and DoI Water included as Appendix 2 of the SWMP.
19. (c)	be submitted to the Secretary for approval prior to the commencement of quarrying operations within the Mod 1 extraction area, unless otherwise agreed by the Secretary; and	Compliant	HR78-2022 HR100-2022	The current SWMP (November 2020) has been approved. The groundwater monitoring program was approved by NRAR in correspondence dated 25 February 2021 and 24 May 2021 and DPE acknowledged that the pre-extraction requirements had been met on 11 June 2021.
19. (d) 19. (d) (i)	Include a: (i) Site Water Balance that includes: (i) <ul style="list-style-type: none"> details of: <ul style="list-style-type: none"> sources and security of water supply; water use and management on site; any off-site water transfers; and reporting procedures; and measures to be implemented to minimise clean water use on site; 	Compliant	HR78-2022	A detailed water balance including the required components and reporting procedures is presented in Section 4 of the SWMP. Measures to minimise clean water use are outlined in Section 3.1.

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)				
SOIL AND WATER (Cont'd)				
Soil and Water Management (Cont'd)				
19. (d) (ii)	<p>(ii) Surface Water Management Plan, that includes:</p> <ul style="list-style-type: none"> a program for obtaining detailed baseline data on surface water flows and quality in water bodies that could potentially be affected by the development; a detailed description of the surface water management system on site including the: <ul style="list-style-type: none"> clean water diversion system; erosion and sediment controls; dirty water management system; and water storages, including the area, depth and capacity of any in-pit sumps; and a program to monitor and report on: <ul style="list-style-type: none"> any surface water discharges; the effectiveness of the water management system; the quality of water discharged from the site to the environment; and surface water flows and quality in local watercourses; and 	Compliant	HR78-2022	<p>Section 2.1.4 of the SWMP outlines a program to obtain baseline data for potential receiving water bodies.</p> <p>Section 3 of the SWMP details the surface water management system for the Quarry, including all necessary components.</p> <p>No licenced discharge point exists for the Quarry, however Section 3.1.2 outlines an approach to monitor future operations and the necessity for a licenced discharge point.</p> <p>Section 5.1 of the SWMP outlines monitoring and reporting procedures covering the effectiveness of the water management system and the quality of receiving waters.</p>

Table A4-1 (Cont'd)
Compliance Review – Development Consent DA 165-7-2005

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Cond. No.	Conditional Requirement	Compliance Status	Basis for Compliance	Comments and Recommended Actions
SCHEDULE 3 SPECIFIC ENVIRONMENTAL CONDITIONS (Cont'd)				
SOIL AND WATER (Cont'd)				
Soil and Water Management (Cont'd)				
19. (d) (iii)	<p>(iii) Groundwater Management Plan that:</p> <ul style="list-style-type: none"> includes detailed management measures to ensure that quarrying operations do not intercept the highest recorded wet weather groundwater level of the MTSGS and/or the SCBGS; includes 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 includes 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"> monitoring of groundwater inflows into the quarry from the quarry face or floor, or into any in-pit sumps; identification of a methodology for determining threshold water level criteria; contingency measures in the event of a breach of thresholds; and a program to regularly report on monitoring. <p>The Applicant must implement the Soil and Water Management Plan as approved by the Secretary.</p>	Compliant	HR78-2022	<p>Section 2.2.2 and Appendix 3 of the SWMP contain extraction limits with reference to wet weather groundwater levels and the Maximum Extraction Depth Map respectively.</p> <p>The Trigger Action Response Plans presented in Section 6 include a protocol for obtaining appropriate licencing for unforeseen groundwater seepage.</p> <p>Section 5.2.2 outlines procedures for monitoring groundwater inflows, Section 2.2.2.2 identifies criteria used to establish threshold water level criteria, and Section 6 includes response measures in the event of a threshold breach. Section 5.1.3 outlines a program to regularly report on monitoring.</p>
		Compliant	HR78-2022	The site currently operates in accordance with the SWMP dated November 2020.
TRANSPORT				
Roadworks				
20.	Prior to carrying out any development, the Applicant must upgrade Haerses Road to meet the requirements for 'internal haul roads', under Baulkham Hills Development Control Plan No. 16 – <i>Extractive Industries, to the satisfaction of Council.</i>	Compliant	Advice from Environmental Officer	Haerses Road upgrade works were completed prior to the 2019 IEA audit period in accordance with the original consent for the Quarry.

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)				
TRANSPORT (Cont'd)				
Roadworks (Cont'd)				
21.	The Applicant must:			
21. (a)	maintain safe access to the site for the public and emergency services for the duration of the development; and	Compliant	Observation	The Quarry access road is well maintained.
21. (b)	reinstate the extracted length of Haerses Road to the satisfaction of Council.	Not Triggered	-	Haerses Road will be reinstated following the completion of extraction activities in the relevant areas, in accordance with the Hills Shire Council Proposed Future Road Design Haerses Road, Maroota plan.
	Notes: <ul style="list-style-type: none"> The Applicant must ensure that the final alignment and design of Haerses Road is approved by Council prior to the commencement of the development. The Applicant must bear the full costs associated with the design, survey and construction of the road works, including the relocation of utilities, if required. All works are to be in accordance with Council's Design Guidelines and Work Specifications for Subdivisions and Developments. Following the reconstruction of Haerses Road, the Applicant must rehabilitate any temporary access roads that were established on site. 			
22.	Prior to carrying out any development, the Applicant must:			
22. (a)	provide for appropriate sight distances at the intersection of Haerses Road and Wisemans Ferry Road, by clearing and/or lopping vegetation along the eastern approach of Wisemans Ferry Road; and	Compliant	Advice from Environmental Officer.	The works nominated in this condition were completed prior to the audit period in accordance with the 2006 development consent.
22. (b)	provide warning signage ("Truck Turning") on the eastern and western approaches of Wisemans Ferry Road, to the satisfaction of TfNSW.	Compliant		

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)				
TRANSPORT (Cont'd)				
Roadworks (Cont'd)				
23.	<p>Within 12 months of the commencement of the development, the Applicant must construct a Type 'AUR' treatment at the intersection of Haerses Road and Wisemans Ferry Road to the satisfaction of RMS. Until the intersection works have been completed to the satisfaction of RMS, the Applicant must limit the number of trucks entering the site to 15 truck movements per day.</p> <p>Notes:</p> <ul style="list-style-type: none"> • Prior to the Construction Certificate being released the Applicant must: <ul style="list-style-type: none"> – enter into a Memorandum of Understanding with the TfNSW that the Type 'AUR' intersection treatment shall be fully constructed and handed over to the TfNSW within 12 months of the commencement of the development; and – issue a bank guarantee in favour of the TfNSW for the total cost of the intersection works (the cost to be determined following the approval of detailed design plans by the TfNSW). • The Applicant shall ensure that the intersection works comply with the TfNSW Road Design Guide. • The Applicant shall bear the full costs associated with the design, survey and construction of the works, including the relocation of utilities, if required. 	Compliant		
24.	Prior to transporting any quarry products derived from quarrying operations within the Mod 1 extraction area, the Applicant must construct a channelised right-turn 'CHR' treatment at the intersection of Haerses Road and Wisemans Ferry Road to the satisfaction of TfNSW. The Applicant must:	Compliant	HR102-2022 HR103-2022	Upgrade design plans were provided and intersection upgrade works have been completed. Extraction in the MOD 1 Extraction area has commenced.

Table A4-1 (Cont'd)
Compliance Review – Development Consent DA 165-7-2005

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Cond. No.	Conditional Requirement	Compliance Status	Basis for Compliance	Comments and Recommended Actions
SCHEDULE 3 SPECIFIC ENVIRONMENTAL CONDITIONS (Cont'd)				
TRANSPORT (Cont'd)				
Roadworks (Cont'd)				
24. (a)	submit detailed design plans to TfNSW for approval prior to the issue of a construction certificate by Council or the commencement of road works; and			
24. (b)	design and construct the intersection treatment in accordance with the Austroads Guide to Road Design.			
24A.	The Applicant must monitor trucks queuing within the right turn bay at the quarry intersection on Wisemans Ferry Road and, in the instance that there are trucks regularly queuing at the intersection, extend the length of the right turn bay to the satisfaction of TfNSW.	Compliant	HR104-2022	A procedure for monitoring trucks queuing in the right turn bay is outlined in Section 5.3 of the TMP (unapproved version, dated November 2021).
Construction Traffic Management				
25.	Prior to commencement of the works referred to in Condition 24 above, the Applicant must prepare and implement a Traffic Control Plan for the development to the satisfaction of the TfNSW.	Compliant	HR103-2022	Traffic management plan (dated 26 June 2020) prepared by Simmons Civil Contracting Pty Ltd for the intersection upgrade works required under Condition 24. Intersection upgrade works have been completed (see Photos 28 to 30).
Monitoring of Product Transport				
26.	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 these records on its website every 6 months.	Compliant	Spot check of truck records. Dixon Sand Website.	Six-monthly truck record summary is available on the Dixon Sand website and copies are included in Annual Reviews during the audit period. A spot check of weighbridge dockets was undertaken during the site inspection.
Operating Conditions				
27.	The Applicant must:			
27.(a)	ensure that all laden trucks have their loads covered when arriving at or leaving the site;	Compliant	Observation HR78-2022	The requirement for vehicles entering or leaving the site to have loads covered is outlined in Section 5 of the TMP. All laden trucks were observed leaving the site during the site inspection were covered.

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)				
TRANSPORT (Cont'd)				
Operating Conditions (Cont'd)				
27.(b)	ensure that all laden trucks are cleaned of material that may fall from vehicles, before leaving the site; and	Compliant	HR79-2022	The requirement for vehicles to be cleaned of materials that may fall from vehicles is included in Section 5 of the TMP. All laden trucks observed leaving the site during the site inspection were sufficiently clean with no obvious materials able to fall from the trailers.
27. (c)	use its best endeavours to ensure that appropriate signage is displayed on all trucks used to transport product from the development so they can be easily identified by road users.	Compliant	HR79-2022	The requirement for vehicles to be maintained in a clean state to allow visibility of signage is included in Section 5 of the TMP.
Traffic Management Plan				
28	The Applicant must prepare a Traffic Management Plan for the development to the satisfaction of the Secretary. This plan must:	Compliant	HR79-2022 HR104-2022	The current approved TMP is dated November 2020. It is noted that the latest TMP (version dated November 2021) was submitted to DPE on 29 November 2021 and has not yet been approved.
28 (a)	be prepared in consultation with the TfNSW and Council;	Compliant	HR79-2022	Consultation with RMS and the Hills Shire Council is presented as Appendix 2 of the TMP.
28 (b)	be submitted to the Secretary for approval within 6 months of the determination of Modification 1, unless otherwise agreed by the Secretary;	Compliant	HR35-2019	Modification 1 was approved on 22 January 2018. An earlier version of the TMP was submitted to DPE on 2 July 2018.
28 (c)	describe the processes in place to control the arrival and dispatch of trucks;	Compliant	HR79-2022	Section 6.1 of the TMP identifies the processes in place to control the arrival and despatch of trucks.
28 (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 Maroota Public School;	Compliant	HR79-2022	Section 4 of the TMP forms the Drivers Code of Conduct. See Recommendation HR R8/22.
28 (e)	describe the measures to be put in place to ensure compliance with the Drivers' Code of Conduct;	Compliant	HR79-2022	Section 4.2 of the TMP outlines measures to ensure compliance with the Drivers Code of Conduct.
28 (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. 8.30am – 9.00am and 3.00pm - 3.30pm);	Compliant	HR79-2022	Measures to minimise heavy vehicle impacts are outlined in the Site Traffic Management Plan which forms Appendix 3 of the 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)				
TRANSPORT (Cont'd)				
Traffic Management Plan (Cont'd)				
28 (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; and	Compliant	HR79-2022	Section 2.1.1 of the TMP outlines measures to minimise the transmission and tracking of dust and material onto public roads.
28 (h)	include a protocol to monitor truck queuing behaviour in the right turn bay at the quarry intersection on Wisemans Ferry Road, and trigger points for implementing the intersection upgrade required under Condition 24A.	Compliant	HR104-2022	A procedure for monitoring trucks queuing in the right turn bay is outlined in Section 5.3 of the TMP (unapproved version, dated November 2021). A trigger for implementing mitigation measures (including potential upgrades) is included in Section 5.4.
	The Applicant must implement the approved Traffic Management Plan as approved by the Secretary.	Compliant	HR05-2019	The site currently operates under the approved TMP dated November 2020.
ABORIGINAL HERITAGE				
29	If any suspected object or place of Aboriginal heritage significance is identified on site, the Applicant must ensure that:	Not Triggered	Advice from Environmental Officer HR71-2022	No suspected objects or places of Aboriginal heritage significance were identified at the Quarry Site during the audit period.
29 (a)	all work in the immediate vicinity of the suspected Aboriginal object or place ceases immediately			One Aboriginal site has been identified within the Haerses Road Biodiversity Offset Area.
29 (b)	a 10m buffer area around the suspected Aboriginal object or place is cordoned off; and			A procedure for unanticipated Aboriginal finds is included in Section 9 of the EMS for the Quarry.
29 (c)	the Heritage NSW 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.			

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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																												
Biodiversity Offset Strategy																												
30	<p>The Applicant must retire the biodiversity credits specified in Table 4 to the satisfaction of the Secretary and BCD. The Applicant must retire the credits prior to commencing any vegetation clearing within the Mod 1 extraction area, except the minimum clearing required to comply with Condition 16 of this Schedule.</p> <p><i>Table 4: Biodiversity credits to be retired prior to the commencement of vegetation clearing</i></p> <table><tr><th>Credit type</th><th>Number of Credits</th></tr><tr><td colspan="2">Ecosystem Credits</td></tr><tr><td>HN560 Needlebush – Banksia Wet Heath on Sandstone Plateaux of the Sydney Basin Bioregion</td><td>3</td></tr><tr><td>HN566 Red Bloodwood – Scribbly Gum Heathy Woodland on Sandstone Plateaux of the Sydney Basin Bioregion</td><td>377</td></tr><tr><td>HN582 Scribbly Gum – Hairpin Banksia – Dwarf Apple Heathy Woodland on Hinterland Sandstone Plateaux of the Central Coast, Sydney Basin Bioregion</td><td>181</td></tr><tr><td>HN586 Smooth-barked Apple – Red Bloodwood – Sydney Peppermint Heathy Open Forest on Slopes of Dry Sandstone Gullies of Western and Southern Sydney, Sydney Basin Bioregion</td><td>44</td></tr><tr><td colspan="2">Species Credits</td></tr><tr><td><i>Darwinia biflora</i></td><td>360</td></tr><tr><td>Dural Land Snail (<i>Pommerhelix duralensis</i>)</td><td>98</td></tr><tr><td>Eastern Pygmy Possum (<i>Cercartetus nanus</i>)</td><td>148</td></tr><tr><td><i>Grevillea parviflora</i> subsp. <i>supplicans</i></td><td>338</td></tr><tr><td><i>Tetralthea glandulosa</i></td><td>288</td></tr></table>	Credit type	Number of Credits	Ecosystem Credits		HN560 Needlebush – Banksia Wet Heath on Sandstone Plateaux of the Sydney Basin Bioregion	3	HN566 Red Bloodwood – Scribbly Gum Heathy Woodland on Sandstone Plateaux of the Sydney Basin Bioregion	377	HN582 Scribbly Gum – Hairpin Banksia – Dwarf Apple Heathy Woodland on Hinterland Sandstone Plateaux of the Central Coast, Sydney Basin Bioregion	181	HN586 Smooth-barked Apple – Red Bloodwood – Sydney Peppermint Heathy Open Forest on Slopes of Dry Sandstone Gullies of Western and Southern Sydney, Sydney Basin Bioregion	44	Species Credits		<i>Darwinia biflora</i>	360	Dural Land Snail (<i>Pommerhelix duralensis</i>)	98	Eastern Pygmy Possum (<i>Cercartetus nanus</i>)	148	<i>Grevillea parviflora</i> subsp. <i>supplicans</i>	338	<i>Tetralthea glandulosa</i>	288	Compliant	HR105-2022	<p>Correspondence from DPIE dated 1 November 2019 confirms that the offsetting requirements under Condition 30 have been met for extraction in the first stage of the MOD 1 Extraction Area.</p> <p>Offsetting requirements were met through payment into the Biodiversity Conservation Fund (confirmation dated 1 November 2019).</p>
Credit type	Number of Credits																											
Ecosystem Credits																												
HN560 Needlebush – Banksia Wet Heath on Sandstone Plateaux of the Sydney Basin Bioregion	3																											
HN566 Red Bloodwood – Scribbly Gum Heathy Woodland on Sandstone Plateaux of the Sydney Basin Bioregion	377																											
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HN586 Smooth-barked Apple – Red Bloodwood – Sydney Peppermint Heathy Open Forest on Slopes of Dry Sandstone Gullies of Western and Southern Sydney, Sydney Basin Bioregion	44																											
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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)																
Biodiversity Offset Strategy (Cont'd)																
31	<p>The Applicant must retire the biodiversity credits specified in Table 5 to the satisfaction of the Secretary and BCD. The Applicant must retire the credits prior to commencing any vegetation clearing in extraction cells 2A, 2B or 3B (as shown in Figure 2, Appendix 1), except the minimum clearing required to comply with Condition 16 of this Schedule.</p> <p><i>Table 5: Biodiversity credits to be retired prior to vegetation clearing in extraction cells 1B, 2B or 3B</i></p> <table><tr><th>Credit type</th><th>Number of Credits</th></tr><tr><td>Species Credits</td><td></td></tr><tr><td>Dural Land Snail (<i>Pommerhelix duralensis</i>)</td><td>132</td></tr></table> <p>Prior to commencing vegetation clearing in any of extraction cells 2A, 2B and 3B, the Applicant must demonstrate that the proportionate credits required in respect of that cell have been retired, to the satisfaction of the Secretary.</p> <p><i>Table 5: Biodiversity credits to be retired prior to vegetation clearing in extraction cells 2A, 2B or 3B</i></p> <table><tr><th>Credit type</th><th>Number of Credits</th></tr><tr><td>Species Credits</td><td></td></tr><tr><td>Dural Land Snail (<i>Pommerhelix duralensis</i>)</td><td>132</td></tr></table>	Credit type	Number of Credits	Species Credits		Dural Land Snail (<i>Pommerhelix duralensis</i>)	132	Credit type	Number of Credits	Species Credits		Dural Land Snail (<i>Pommerhelix duralensis</i>)	132	Not Triggered	Observation	Vegetation clearing and extraction has not yet commenced in extraction cells 2A, 2B or 3B.
Credit type	Number of Credits															
Species Credits																
Dural Land Snail (<i>Pommerhelix duralensis</i>)	132															
Credit type	Number of Credits															
Species Credits																
Dural Land Snail (<i>Pommerhelix duralensis</i>)	132															
32	<p>The Applicant must retire the biodiversity credits specified in Table 6 to the satisfaction of the Secretary and BCD. The Applicant must retire the credits prior to commencing any vegetation clearing in extraction cells 2A, 2B, 3A, 3B, 4A, 4B and 5B (as shown in Figure 2, Appendix 1), except the minimum clearing required to comply with Condition 16 of this Schedule.</p>	Not Triggered	Observation	Vegetation clearing and extraction has not yet commenced in extraction cells 2A, 2B or 3B.												

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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)														
Biodiversity Offset Strategy (Cont'd)														
32 Cont'd	<p>Prior to commencing vegetation clearing in any of extraction cells 2A, 2B, 3A, 3B, 4A, 4B and 5B, the Applicant must demonstrate that the proportionate credits required in respect of that cell have been retired, to the satisfaction of the Secretary.</p> <p><i>Table 6: Biodiversity credits to be retired progressively</i></p> <table><tr><th>Credit type</th><th>Number of Credits</th></tr><tr><td colspan="2"><i>Ecosystem Credits</i></td></tr><tr><td>HN582 Scribbly Gum – Hairpin Banksia – Dwarf Apple Heathy Woodland on Hinterland Sandstone Plateaux of the Central Coast, Sydney Basin Bioregion</td><td>357</td></tr><tr><td colspan="2"><i>Species Credits</i></td></tr><tr><td>Eastern Pygmy Possum (<i>Cercartetus nanus</i>)</td><td>75</td></tr></table>	Credit type	Number of Credits	<i>Ecosystem Credits</i>		HN582 Scribbly Gum – Hairpin Banksia – Dwarf Apple Heathy Woodland on Hinterland Sandstone Plateaux of the Central Coast, Sydney Basin Bioregion	357	<i>Species Credits</i>		Eastern Pygmy Possum (<i>Cercartetus nanus</i>)	75	Not Triggered		
Credit type	Number of Credits													
<i>Ecosystem Credits</i>														
HN582 Scribbly Gum – Hairpin Banksia – Dwarf Apple Heathy Woodland on Hinterland Sandstone Plateaux of the Central Coast, Sydney Basin Bioregion	357													
<i>Species Credits</i>														
Eastern Pygmy Possum (<i>Cercartetus nanus</i>)	75													
33	<p>In retiring the ecosystem and species credits set out in Conditions 30 to 32 above, the Applicant may apply the Biodiversity Offset Strategy (see Appendix 4) or, with the agreement of the Secretary, may use other land, the NSW Biodiversity Conservation Fund or alternate mechanisms permitted under the Biodiversity Offsets Scheme of the BC Act.</p> <p>The credits identified in Tables 4, 5 and 6 were calculated in accordance with Framework for Biodiversity Assessment of the NSW Biodiversity Offset Policy for Major Projects (OEH, 2014) and may need to be converted to reasonably equivalent 'biodiversity credits', within the meaning of the BC Act, if the credits are to be retired in accordance with the Biodiversity Offsets Scheme of the BC Act.</p>	-	-	Noted.										

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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														
34	<p>The Applicant must rehabilitate the site to the satisfaction of the Secretary. This rehabilitation must be generally consistent with the final landform shown in Appendix 6 and must comply with the objectives in Table 6.</p> <table><caption>Table 6: Rehabilitation Objectives</caption><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">SafeHydraulically and geotechnically stableNon-pollutingFit for the intended final land use(s)Final landform integrated with surrounding natural landforms as far as is reasonable and feasible, and minimising visual impacts when viewed from surrounding land</td></tr><tr><td>Surface infrastructure</td><td><ul style="list-style-type: none">Decommissioned and removed, unless otherwise agreed by the Secretary</td></tr><tr><td>Quarry benches and pit floor</td><td><ul style="list-style-type: none">Landscaped and vegetated using native tree and understorey species</td></tr><tr><td>Final void</td><td><ul style="list-style-type: none">Minimise the size, depth and slope of the batters of the final voidMinimise the drainage catchment of the final void</td></tr></table>	Feature	Objective	All areas of the site affected by the development	<ul style="list-style-type: none">SafeHydraulically and geotechnically stableNon-pollutingFit for the intended final land use(s)Final landform integrated with surrounding natural landforms as far as is reasonable and feasible, and minimising visual impacts when viewed from surrounding land	Surface infrastructure	<ul style="list-style-type: none">Decommissioned and removed, unless otherwise agreed by the Secretary	Quarry benches and pit floor	<ul style="list-style-type: none">Landscaped and vegetated using native tree and understorey species	Final void	<ul style="list-style-type: none">Minimise the size, depth and slope of the batters of the final voidMinimise the drainage catchment of the final void	Not Triggered	Observations HR06-2019 Advice from Managing Director	<p>Quarry operations have generally not progressed to the stage at which rehabilitation to the final landform can be undertaken.</p> <p>Limited rehabilitation has been undertaken within the Stage 1 extraction area, however, the Managing Director advises that this area will require additional work to be compliant with the final landform.</p>
Feature	Objective													
All areas of the site affected by the development	<ul style="list-style-type: none">SafeHydraulically and geotechnically stableNon-pollutingFit for the intended final land use(s)Final landform integrated with surrounding natural landforms as far as is reasonable and feasible, and minimising visual impacts when viewed from surrounding land													
Surface infrastructure	<ul style="list-style-type: none">Decommissioned and removed, unless otherwise agreed by the Secretary													
Quarry benches and pit floor	<ul style="list-style-type: none">Landscaped and vegetated using native tree and understorey species													
Final void	<ul style="list-style-type: none">Minimise the size, depth and slope of the batters of the final voidMinimise the drainage catchment of the final void													
Progressive Rehabilitation														
35	<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>	Compliant	Observation Advice from Managing Director	<p>Limited rehabilitation has been undertaken within the Stage 1 extraction area, however, the Managing Director advises that this area will require additional work to be compliant with the final landform.</p> <p>Quarry development remains at an early stage and therefore opportunities to undertake progressive rehabilitation have been limited.</p>										
Biodiversity and Rehabilitation Management Plan														
36	<p>The Applicant must prepare a Biodiversity and Rehabilitation Management Plan for the development to the satisfaction of the Secretary. This plan must:</p>	Compliant	HR80-2022	<p>The current approved BRMP is dated November 2020.</p> <p>It is noted that an updated BRMP (version dated November 2021) was submitted to DPE on 29 November 2021 but has not yet been approved.</p>										

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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)				
Biodiversity and Rehabilitation Management Plan (Cont'd)				
36 (a)	be prepared by a suitably qualified expert;	Compliant	HR80-2022 HR106-2022	The BRMP was prepared by prepared by Alison Riley, Umwelt NSW Ecology Manager. The updated BRMP (unapproved) was prepared by Hunsamon Churcher of Project Environmental Services Pty Ltd.
36 (b)	be prepared in consultation with BCD and Council;	Compliant	HR06-2019	Consultation with the Hills Shire Council and OEH presented as Appendix 2 of the BRMP.
36 (d)	provide details of the conceptual final landform and associated final land use(s) for the site;	Compliant	HR80-2022	Sections 6.3 and 6.4 of the BRMP present the conceptual final landform and land use for the Quarry.
36 (e)	describe how the implementation of the Biodiversity Offset Strategy will be integrated with the overall rehabilitation of the site;	Compliant	HR80-2022	Section 3.2 of the BRMP outlines how the biodiversity offset strategy area will be integrated with rehabilitation of the Quarry site.
36 (f)	describe the short, medium and long term measures to be implemented to: <ul style="list-style-type: none"> manage remnant vegetation and habitat on site, including within the Biodiversity Offset Strategy area; and ensure compliance with the rehabilitation objectives and progressive rehabilitation obligations in this consent; 	Compliant	HR80-2022 HR81-2022	Section 5 and Table 5.1 of the BRMP outline the short-, medium- and long-term management measures to achieve the rehabilitation objectives. Management and monitoring measures for the biodiversity offset area (Haerses Road Biobank Site) are outlined in the approved Biobanking Agreements (Appendix 5 of the EMS).
36 (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:	Compliant	HR80-2022 HR106-2022 Advice from Environmental Officer	Section 6.2 of the BRMP outlines a rehabilitation strategy over the next 3 years (2018-2020). The updated BRMP (unapproved) outlines a rehabilitation strategy for 2021-2023.
	<ul style="list-style-type: none"> 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; 			Sections 5.1.1, 5.1.3 and 5.1.4 outline measures targeting the salvage of environmental resources.
	<ul style="list-style-type: none"> 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; 			Section 5.3 of the BRMP outlines on-site revegetation activities in rehabilitation areas. Revegetation activities in the biodiversity offset area are not described, rather Section 5.4 confirms that management and monitoring actions for the offset sites will be undertaken in accordance with the approved Biobanking Agreements.

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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)				
Biodiversity and Rehabilitation Management Plan (Cont'd)				
36 (g) Cont'd	<ul style="list-style-type: none"> protecting vegetation and fauna habitat outside the approved disturbance area on-site, paying particular attention to any occurrences of <i>Hibbertia superans</i> adjacent to the approved extraction areas; 			Section 5.1.1.1 describes measures to define limits of vegetation clearing with specific reference to <i>Hibbertia superans</i> .
	<ul style="list-style-type: none"> minimising the impacts on native fauna, including undertaking pre-clearance surveys and avoiding clearing activities during sensitive hibernation and breeding periods; 			Sections 5.1.1.2 and 5.1.1.3 of the BRMP outline pre-clearing survey and timing requirements.
	<ul style="list-style-type: none"> establishing vegetation screening to minimise the visual impacts of the site on surrounding receivers; 			Sections 5.3.2 and 5.3.3 of the BRMP outline vegetation screening measures.
	<ul style="list-style-type: none"> ensuring minimal environmental consequences for threatened species, populations and habitats; 			Sections 5.1, 5.2 and 5.3 of the BRMP outline biodiversity management controls, operational controls and revegetation strategies aimed at minimising environmental consequences.
	<ul style="list-style-type: none"> collecting and propagating seed; 			Section 5.1.2 of the BRMP outlines a seed collection procedure and indicates that a propagation procedures will be implemented. A propagation procedure is not described. The Company relies upon the seed collection and propagation procedures of suitable contractors commissioned to undertake this work.
	<ul style="list-style-type: none"> controlling weeds and feral pests; 			Sections 5.2.2 and 5.2.3 of the BRMP outline weed and pest management strategies.
	<ul style="list-style-type: none"> controlling erosion; and 			Section 5.2.4 of the BRMP details erosion and sediment control measures.
	<ul style="list-style-type: none"> managing bushfire risk; 			Section 5.2.5 of the BRMP details fire management measures.
36 (h)	include a program to monitor the effects of the development on flora and fauna;	Compliant	HR80-2022	Section 7.3 of the BRMP describes rehabilitation inspections and ecological rehabilitation monitoring parameters and frequencies.

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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)				
Biodiversity and Rehabilitation Management Plan (Cont'd)				
36 (i)	include detailed performance and completion criteria for evaluating the performance of the Biodiversity Offset Strategy and the rehabilitation of the site (including progressive rehabilitation), including triggers for any necessary remedial action;	Compliant	HR80-2022	Section 6.5 of the BRMP provides performance and completion criteria for the Quarry within a single column, in addition to triggers and potential corrective actions.
36 (j)	include a program to monitor and report on the effectiveness of the measures described in paragraphs (f) and (g), and progress against the performance and completion criteria;	Compliant	HR80-2022	Section 7 of the BRMP includes a program to monitor and report on progress against performance and completion criteria.
36 (k)	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	HR80-2022	Section 10 of the BRMP identifies threats and corrective actions in the event that criteria are not achieved.
36 (l)	include details of who is responsible for monitoring, reviewing, and implementing the plan. The Applicant must implement the Biodiversity and Rehabilitation Management Plan as approved by the Secretary.	Compliant Compliant	HR80-2022	Section 11 of the BRMP describes accountabilities for monitoring, reviewing and implementing the plan. The site currently operates under the BRMP dated November 2020.
Biodiversity and Rehabilitation Bond				
37	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:	Non-compliant	HR36-2019	The original BRMP was approved on 18 September 2018 and the Biodiversity and Rehabilitation Bond was lodged on 25 March 2019 (i.e. 1 week past the required timeframe). This is considered an administrative non-compliance with no further action required and was reported as a non-compliance in the 2019 IEA.

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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)				
Biodiversity and Rehabilitation Bond (Cont'd)				
37 (a)	calculating the full cost of implementing the Biodiversity Offset Strategy;	Compliant	HR36-2019 Advice from Environmental Officer	The Biodiversity and rehabilitation Bond was lodged on 25 March 2019. Approval of the bond amount was granted by DPE on 13 March 2019. The calculated costs were reviewed by Narla Environmental Pty Ltd.
37 (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	Compliant		
37 (c)	employing a suitably qualified quantity surveyor or other expert to verify the calculated costs, to the satisfaction of the Secretary.	Compliant		
	<p>Notes:</p> <ul style="list-style-type: none"> 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. 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. 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). 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. 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. 			Noted.

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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)				
Biodiversity and Rehabilitation Bond (Cont'd)				
38	The Biodiversity and Rehabilitation Bond must be reviewed and (if required), an updated bond must be lodged with the Department within 3 months following:			
38 (a)	an update or revision to the Biodiversity and Rehabilitation Management Plan;	Compliant	HR107-2022	The current BRMP was approved by DPE on 16 November 2020. A review of the Biodiversity and Rehabilitation Bond was completed by 10 February 2021.
38 (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	HR108-2022	The 2019 Independent Environmental Audit was submitted to DPIE on 13 January 2020. A review of the Biodiversity and Rehabilitation Bond was completed by 9 April 2021.
38 (c)	in response to a request by the Secretary.	Not Triggered	Advice from Environmental Officer	No such requests were received from the Secretary during the audit period.
VISUAL				
39	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	Observation	No significant lighting sources were observed during the site inspection. Approved hours of operation (6:00am to 6:00pm) limit the potential for lighting impacts.
WASTE				
40	The Applicant must:			
40 (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	The Quarry relies upon existing sewage infrastructure inherited with the purchase of properties which form the Quarry Site. New ablutions facilities were being constructed at the time of the site inspection.
40 (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 was sighted during the site inspection.

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Cond. No.	Conditional Requirement	Compliance Status	Basis for Compliance	Comments and Recommended Actions
SCHEDULE 3 SPECIFIC ENVIRONMENTAL CONDITIONS (Cont'd)				
WASTE (Cont'd)				
40 (c)	ensure that the waste generated by the development is appropriately stored, handled, and disposed of; and	Compliant	Observations HR61-2022 HR62-2022 HR63-2022 HR64-2022	Waste was observed to be appropriately stored on site during the site inspection. Waste registers contained in the Annual Reviews during the audit period indicate that appropriate waste collection and disposal procedures have been implemented.
40 (d)	report on waste management and minimisation in the Annual Review, to the satisfaction of the Secretary.	Compliant	HR61-2022 HR62-2022 HR63-2022 HR64-2022	Waste management and minimisation are reported in the Annual Reviews during the audit period.
41	Except as expressly permitted in an EPL and/or the conditions of this consent, the Applicant must not receive waste on the site for storage, treatment, processing, reprocessing or disposal.	Compliant	HR61-2022 HR62-2022 HR63-2022 HR64-2022	Annual Reviews during the audit period indicate that no waste was received at the Quarry with the exception of VENM material received during the 2019/2020, 2020/2021 and 2021/2022 Annual Review periods.
Liquid Storage				
42	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	Observation	No tanks or storage facilities (other than for water) were observed on site during the site inspection.
Dangerous Goods				
43	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	Observation HR64-2022	No dangerous goods were observed to be stored on site during the site inspection. Refuelling is undertaken using a mobile fuel truck fitted with a spill kit. Proactive measures concerning dangerous goods management are outlined in the PIRMP.

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Cond. No.	Conditional Requirement	Compliance Status	Basis for Compliance	Comments and Recommended Actions
SCHEDULE 3 SPECIFIC ENVIRONMENTAL CONDITIONS (Cont'd)				
WASTE (Cont'd)				
Bushfire				
44	The Applicant must:			
44 (a)	ensure that the development is suitably equipped to respond to any fires on site; and	Compliant	HR86-2022 HR87-2022 Observations	Section 5 of the BMP outlines bushfire management and mitigation measures. A fire extinguisher and fire extinguisher service records were observed during the site inspection.
44 (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	HR86-2022 Advice from Environmental Officer	Section 7 of the BMP outlines responsibilities of all employees and contractors, including assisting the RFS in firefighting where feasible. Dixon Sand permitted staff who are volunteer firefighters to take community service leave to assist the RFS in bushfire fighting during the 2019/2020 bushfires. The Quarry provided access for the RFS to utilise the paddock in Stage 4 as a staging area for aerial firefighting appliance during the Hazard Reduction burn in August 2020. The Quarry facilitated RFS training by providing access to the on-site house (unoccupied and uninhabitable house) as a venue for Breathing Apparatus course and generic scenario training for The Hills brigades and Blue Mountains brigades.
44 (b) (Cont'd)				The Quarry undertakes 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. The Quarry also made regular monetary donations to the local Maroota Rural Fire Brigade during the audit period.
45	Within 6 months of the determination of Modification 1, the Applicant must prepare a Bushfire Management Plan for the site in consultation with Council and to the satisfaction of the Rural Fire Service.	Compliant	HR86-2022 HR87-2022	The BMP was prepared by June 2018, within 6 months of the determination of Mod 1 in January 2018. Consultation with the Hills Shire Council is presented as Appendix 1 of the BMP. The current approved version of the BMP is dated October 2020.

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Cond. No.	Conditional Requirement	Compliance Status	Basis for Compliance	Comments and Recommended Actions
SCHEDULE 4 ADDITIONAL PROCEDURES				
Notification of Landowners				
1	As soon as practicable, and no longer than 7 days, after obtaining monitoring results showing:	Not Triggered	-	Exceedance of the monthly and annual average deposited dust criteria recorded at monitoring location D10 (located on land owned by Dixon Sand) during the audit period were attributed to non-Quarry related activities or sources.
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).			
Independent Review				
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	Advice from Environmental Officer	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">consult with the landowner to determine his/her concerns;conduct monitoring to determine whether the development is complying with the relevant criteria in Schedule 3; andif the development is not complying with these criteria, then identify measures that could be implemented to ensure compliance with the relevant criteria;			
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	HR71-2022	The current approved EMS is dated April 2022.
1 (a)	be submitted to the Secretary for approval within 6 months of the approval of Modification 1, unless otherwise agreed by the Secretary;	Compliant	HR34-2019	Mod 1 was approved on 22 January 2018. The EMS was submitted to DPE on 18 July 2018.
1 (b)	Provide the strategic framework for the environmental management of the development;	Compliant	HR71-2022	The EMS provides the strategic framework for the Quarry.
1 (c)	identify the statutory approvals that apply to the development;	Compliant	HR71-2022	Section 2 of the EMS identifies the statutory approvals applicable to the Quarry.
1 (d)	describe the role, responsibility, authority and accountability of all key personnel involved in the environmental management of the development;	Compliant	HR71-2022	Section 4 describes the roles and responsibilities of personnel associated with the Quarry.

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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)				
Environmental Management Strategy (Cont'd)				
1 (e)	describe the procedures to be implemented to: <ul style="list-style-type: none"> keep the local community and relevant agencies informed about the operation and environmental performance of the development; receive, record, handle and respond to complaints; resolve any disputes that may arise during the course of the development; respond to any non-compliance; respond to emergencies; and 	Compliant	HR71-2022	Reporting, communication, complaint handling, dispute resolution, non-compliance response and emergency response protocols are included in the EMS.
1 (f)	include: <ul style="list-style-type: none"> copies of any strategies, plans and programs approved under the conditions of this consent; and a clear plan depicting all the monitoring to be carried out under the conditions of this consent. 	Compliant	HR71-2022 HR75-2022	Copies of the relevant plans are included as appendices to the EMS. Monitoring locations are shown in the Environmental Monitoring Locations document and monitoring procedures are detailed in the relevant plans.
	The Applicant must implement any Environmental Management Strategy as approved by the Secretary.	Compliant	HR71-2022	The site currently operates under the Environmental Management Strategy dated April 2022.
Evidence of Consultation				
2	Where consultation with any State or local agency is required by the conditions of this consent, the Applicant must:	Compliant	HR71-2022	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;	Compliant	HR72-2022 HR74-2022 HR75-2022	
2 (b)	submit evidence of this consultation as part of the relevant document;	Compliant	HR76-2022 HR77-2022	
2 (c)	describe how matters raised by the agency have been addressed and any matters not resolved; and	Compliant	<i>Continued over....</i>	

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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)				
Evidence of Consultation (Cont'd)				
2 (d)	include details of any outstanding issues raised by the agency and an explanation of disagreement between any agency and the Applicant.	Compliant	HR78-2022 HR79-2022 HR80-2022 HR81-2022 HR82-2022 HR86-2022 HR87-2022	
Management Plan Requirements				
3	The Applicant must ensure that the management plans required under this consent are prepared in accordance with any relevant guidelines, and include:	Compliant	HR71-2022 HR72-2022 HR74-2022 HR75-2022	Plans contain all identified components and have been prepared in accordance with the relevant guidelines, where applicable. Appendix 1 of the EMS provides a Plan Preparation Checklist and Certification confirming plan component inclusion.
3 (a)	detailed baseline data;		HR76-2022	
3 (b)	a description of: <ul style="list-style-type: none"> the relevant statutory requirements (including any relevant approval, licence or lease conditions); any relevant limits or performance measures/criteria; and the specific performance indicators that are proposed to be used to judge the performance of, or guide the implementation of, the development or any management measures; 	Compliant	HR77-2022 HR78-2022 HR79-2022 HR80-2022 HR81-2022 HR82-2022	
3 (c)	a description of the measures that to be implemented to comply with the relevant statutory requirements, limits, or performance measures/criteria;	Compliant	HR86-2022 HR87-2022	
3 (d)	a program to monitor and report on the: <ul style="list-style-type: none"> impacts and environmental performance of the development; and effectiveness of any management measures (see (c) above); 	Compliant		

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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)				
Management Plan Requirements (Cont'd)				
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"> incidents; complaints; non-compliances with statutory requirements; and exceedances of the impact assessment criteria and/or performance criteria; and 	Compliant		
3 (h)	a protocol for periodic review of the plan.	Compliant		
	<i>Note: The Secretary may waive some of these requirements if they are unnecessary or unwarranted for particular management plans.</i>			Noted
Application of Existing Strategies, Plans and Programs				
4	The Applicant must continue to apply existing management plans, strategies or monitoring programs approved prior to the approval of Modification 1, until the approval of a similar plan, strategy or program following the approval of Modification 1.	Compliant	Advice from Environmental Officer	The Quarry was operated under existing management plans until revised plans were approved following the determination of Modification 1.
Revision of Strategies, Plans & Programs				
5	Within 3 months of the submission of an: <ul style="list-style-type: none"> (a) incident report under Condition 10 below; (b) Annual Review under Condition 12 below; (c) Independent Environmental Audit report under Condition 14 below; and (d) any modifications to this consent, 	Compliant	HR109-2022 HR110-2022 HR111-2022 HR112-2022 HR113-2022	With the exception of one self-reported elevated PM ₁₀ measurement which was deemed by the EPA not to represent an incident, no incident reports were made during the audit period. Management plans were reviewed within appropriate timeframes following the submission of Annual Reviews during the audit period. Reviews were lodged to the Department, as required. Management plans were reviewed within an appropriate timeframe following submission of the 2019 IEA. Reviews were lodged to the Department, as required

Table A4-1 (Cont'd)
Compliance Review – Development Consent DA 165-7-2005

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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)				
Revision of Strategies, Plans & Programs (Cont'd)				
	<p>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.</p> <p>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.</p>			<p>Management plans were reviewed within appropriate timeframes following the determination of MOD 3, MOD 4 and MOD 5 during the audit period. Reviews were lodged to the Department, as required.</p>
Updating and Staging of Strategies, Plans or Programs				
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>	-	-	Noted.

Table A4-1 (Cont'd)
Compliance Review – Development Consent DA 165-7-2005

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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)				
Updating and Staging of Strategies, Plans or Programs (Cont'd)				
6 Cont'd	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. 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.			
Adaptive Management				
7	The Applicant must assess and manage development-related risks to ensure that there are no exceedances of the criteria and performance measures in this consent. Any exceedance of these criteria 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.	Compliant	HR109-2022 HR61-2022 HR62-2022 HR63-2022 HR64-2022	The only exceedance of criteria within Schedule 3 was cumulative deposited dust. Given that the source was identified as not being Quarry-related, this exceedance was not deemed to represent an incident and no adaptive management measures were required. This conclusion was supported by the EPA on 18 October 2021. In general, the Company appears to proactively assess and manage risks to reduce the potential for exceedances or impacts.
7 (a)	Where any exceedance of these criteria or performance measures has occurred, the Applicant must, at the earliest opportunity: take all reasonable and feasible steps to ensure that the exceedance ceases and does not recur;	Not Triggered	HR61-2022 HR62-2022 HR63-2022 HR64-2022	As above.
7 (b)	consider all reasonable and feasible options for remediation (where relevant) and submit a report to the Department describing those options and any preferred remediation measures or other course of action; and	Not Triggered	HR61-2022 HR62-2022 HR63-2022 HR64-2022	As above.

Table A4-1 (Cont'd)
Compliance Review – Development Consent DA 165-7-2005

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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)				
Adaptive Management (Cont'd)				
7 (e)	implement reasonable remediation measures as directed by the Planning Secretary.	Not Triggered	HR61-2022 HR62-2022 HR63-2022 HR64-2022	As above.
Community Consultative Committee				
8	<p>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 30 June 2018 and operated in general accordance with the Department's Community Consultative Committee Guidelines, November 2016 (or later version).</p> <p>Notes:</p> <ul style="list-style-type: none"> The CCC is an advisory committee. The Department and other relevant agencies are responsible for ensuring that the Applicant complies with this consent. In accordance with the guidelines, the Committee should comprise an independent chair and appropriate representation from the Applicant, Council and the local community. The CCC established and operated prior to the approval of Modification 1 must continue to be operated in accordance with the procedures required by the consent prior to the approval of Modification 1 until such time as the CCC required by this condition is established. The Applicant may, with the approval of the Secretary, combine the function of this CCC with the functions of other CCCs in the area. 	Compliant	HR51-2019	Approval from DPE on 1 March 2018 to maintain existing CCC arrangement.

Table A4-1 (Cont'd)
Compliance Review – Development Consent DA 165-7-2005

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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)				
REPORTING				
Incident Notification				
9	The Proponent must immediately notify the Department and any other relevant agencies immediately after it becomes aware of an incident. The notification must be in writing via the Major Projects Website and identify the development (including the development application number and name) and set out the location and nature of the incident.	Not Triggered	HR109-2022 HR61-2022 HR62-2022 HR63-2022 HR64-2022 Advice from Environmental Officer	No reportable incidents occurred during the audit period. The only exceedance of criteria within Schedule 3 was cumulative deposited dust. Given that the source was identified as not being Quarry-related, this exceedance was not deemed to represent an incident. This conclusion was supported by the EPA on 18 October 2021. The Company appears to proactively assess and manage risks to reduce the potential for exceedances or impacts.
Non-Compliance Notification				
10	Within seven days of becoming aware of a non-compliance, the Applicant must notify the Department of the non-compliance. The notification must be in writing via the Major Projects Website and identify the development (including the development application number and name), set out the condition of this consent that the development is non-compliant with, the way in which it does not comply and the reasons for the non-compliance (if known) and what actions have been, or will be, undertaken to address the non-compliance.	Not Triggered	As above	As above.
Regular Reporting				
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 HR61-2022 HR62-2022 HR63-2022 HR64-2022	Up to date monitoring data required under the DA and various management plans for the Quarry is available on the Dixon Sand website. Copies of Annual Reviews, truck movement records, noise monitoring results and EPL monitoring data are also available of the Dixon Sand website.

Table A4-1 (Cont'd)
Compliance Review – Development Consent DA 165-7-2005

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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)				
REPORTING (Cont'd)				
Annual Review				
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	HR61-2022 HR62-2022 HR63-2022 HR64-2022 Advice from Environmental Officer	Annual reviews were submitted by the relevant date (financial year periods) during the audit period.
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	HR61-2022 HR62-2022 HR63-2022 HR64-2022	Annual Reviews during the audit period describe development and rehabilitation activities during the audit period as well as proposed activities during the next audit period.
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"> relevant statutory requirements, limits or performance measures/criteria; requirements of any plan or program required under this consent; monitoring results of previous years; and relevant predictions in the documents listed in Condition 2(a) of Schedule 2; 	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"> the effectiveness of the air quality and noise management systems; and compliance with the performance measures, criteria and operating conditions in this consent. 	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.

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Compliance Review – Development Consent DA 165-7-2005

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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)				
REPORTING (Cont'd)				
Annual Review (Cont'd)				
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; and	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.
	The Applicant must ensure that copies of the Annual Review are submitted to Council and are available to the Community Consultative Committee (see Condition 8 of Schedule 5) and any interested person upon request.	Compliant	Dixon Sand Website Advice from Environmental Officer	Annual Reviews during the audit period were distributed to the relevant stakeholders and were available on the Dixon Sand website.
Independent Environmental Audit				
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	2019 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 (see Appendix 1).
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.

Table A4-1 (Cont'd)
Compliance Review – Development Consent DA 165-7-2005

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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)				
REPORTING (Cont'd)				
Independent Environmental Audit (Cont'd)				
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	Appendix 4	-
13 (d)	review the adequacy of strategies, plans or programs required under the abovementioned approvals;	Compliant	Section 3.1.4	-
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	Section 4	-
13 (f)	be conducted and reported to the satisfaction of the Secretary.	Compliant	HR114-2022 This Audit	DPIE confirmed satisfaction with the 2019 IEA on 18 September 2020 following a response to a request for information. 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	HR61-2022	The 2019 IEA was submitted to DPIE on 13 January 2020, i.e. within the nominated 12 week period.. Submission of the audit and response to the recommendations will occur following the finalisation of this audit.
Access to Information				
15	Within 3 months of the determination of Modification 1, until the completion of all works, including rehabilitation and remediation the Applicant must:	Compliant	Advice from Environmental Officer	All relevant information was available on the Dixon Sand Website within 3 months of the determination of Modification 1 and was current as at the date of this Audit.

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Compliance Review – Development Consent DA 165-7-2005

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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)				
REPORTING (Cont'd)				
Access to Information (Cont'd)				
15 (a)	make the following information publicly available on its website: <ul style="list-style-type: none"> the documents listed in Condition 2(a) of Schedule 2; current statutory approvals for the development; all approved strategies, plans and programs required under the conditions of this consent; a comprehensive summary of the monitoring results of the development, reported in accordance with the specifications in any conditions of this consent, or any approved plans and programs; a complaints register, updated monthly; the annual reviews of the development; any independent environmental audit as described in Condition 13 above, and the Applicant's response to the recommendations in any audit; and any other matter required by the Secretary; and 	Compliant	Dixon Sand Website	All relevant approvals, plans, annual reviews, monitoring result summaries, and complaints are available on the Dixon Sand website.
15 (b)	keep this information up-to-date, to the satisfaction of the Secretary.	Compliant	Dixon Sand Website	Information on the Dixon Sand website is up to date, as required.

Table A4-2
Compliance Review – EPL 12513

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Cond. No.	Conditional Requirement	Compliance Status	Basis for Compliance	Comments and Recommended Actions												
1 Administrative Condition																
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>> 100000 - 500000 T annual processing capacity</td></tr><tr><td>Extractive activities</td><td>Extractive activities</td><td>> 100000 - 500000 T annually extracted or processed</td></tr><tr><td>Resource recovery</td><td>Recovery of general waste</td><td>Any general waste recovered</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	Resource recovery	Recovery of general waste	Any general waste recovered	Compliant	HR61-2022 HR62-2022 HR63-2022 HR64-2022	Production data included in Annual Reviews during the audit period indicates that operations did not exceed the relevant activity scale.
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														
Resource recovery	Recovery of general waste	Any general waste recovered														
A2 Premises or plant to which this licence applies																
A2.1	<p>The licence applies to the following premises:</p> <table><tr><th>Premises Details</th></tr><tr><td>DIXON SAND PTY LTD</td></tr><tr><td>HAERSES ROAD AND INTERSECTION OF WISEMANS FERRY ROAD</td></tr><tr><td>MARROOTA</td></tr><tr><td>NSW 2756</td></tr><tr><td>LOT A DP 407341, LOT B DP 407341, LOT 170 DP 664766, LOT 170 DP 664767, LOT 176 DP 752039, LOT 177 DP 752039, LOT 216 DP 752039</td></tr></table>	Premises Details	DIXON SAND PTY LTD	HAERSES ROAD AND INTERSECTION OF WISEMANS FERRY ROAD	MARROOTA	NSW 2756	LOT A DP 407341, LOT B DP 407341, LOT 170 DP 664766, LOT 170 DP 664767, LOT 176 DP 752039, LOT 177 DP 752039, LOT 216 DP 752039	-	-	Noted						
Premises Details																
DIXON SAND PTY LTD																
HAERSES ROAD AND INTERSECTION OF WISEMANS FERRY ROAD																
MARROOTA																
NSW 2756																
LOT A DP 407341, LOT B DP 407341, LOT 170 DP 664766, LOT 170 DP 664767, LOT 176 DP 752039, LOT 177 DP 752039, LOT 216 DP 752039																
A3 Other activities																
A3.1	<p>This licence applies to all other activities carried on at the premises, including:</p> <table><tr><th>Ancillary Activity</th></tr><tr><td>Receipt and processing of VENM and receipt of ENM.</td></tr></table>	Ancillary Activity	Receipt and processing of VENM and receipt of ENM.	-	-	Noted										
Ancillary Activity																
Receipt and processing of VENM and receipt of ENM.																

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Compliance Review – EPL 12513

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Cond. No.	Conditional Requirement	Compliance Status	Basis for Compliance	Comments and Recommended Actions																
1 Administrative Condition (Cont'd)																				
A4 Information supplied to the EPA																				
A4.1	Works and activities must be carried out in accordance with the proposal contained in the licence application, except as expressly provided by a condition of this licence. In this condition the reference to "the licence application" includes a reference to: a) the applications for any licences (including former pollution control approvals) which this licence replaces under the Protection of the Environment Operations (Savings and Transitional) Regulation 1998; and b) the licence information form provided by the licensee to the EPA to assist the EPA in connection with the issuing of this licence.	Compliant	HR28-2019	A letter dated 13 June 2006 which accompanied the EPL application for the Quarry indicates that the EPL application was made in accordance with details contained in Development Consent 165-7-2005, Notice of Modification DA 250-9-2001-MOD, and two maps of the site. Works and activities have generally been carried out in accordance with the activities described in these documents.																
2 Discharges to Air and Water and Applications to Land																				
P1 Location of monitoring/discharge points and areas																				
P1.1	The following points referred to in the table below are identified in this licence for the purposes of monitoring and/or the setting of limits for the emission of pollutants to the air from the point. <table><tr><th colspan="4">Air</th></tr><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>Ambient air monitoring</td><td></td><td>Ambient air monitoring site location near the Maroota Public School as marked in "Figure 1.3 - Existing and Proposed Development" provided 30 November 2004.</td></tr><tr><td>3</td><td>Ambient air monitoring</td><td></td><td>Dust deposition gauge located on the site between Stage 4 works and the west dam on the site near Stage 4 works</td></tr></table>	Air				EPA identification no.	Type of Monitoring Point	Type of Discharge Point	Location Description	1	Ambient air monitoring		Ambient air monitoring site location near the Maroota Public School as marked in "Figure 1.3 - Existing and Proposed Development" provided 30 November 2004.	3	Ambient air monitoring		Dust deposition gauge located on the site between Stage 4 works and the west dam on the site near Stage 4 works	-	--	Noted
Air																				
EPA identification no.	Type of Monitoring Point	Type of Discharge Point	Location Description																	
1	Ambient air monitoring		Ambient air monitoring site location near the Maroota Public School as marked in "Figure 1.3 - Existing and Proposed Development" provided 30 November 2004.																	
3	Ambient air monitoring		Dust deposition gauge located on the site between Stage 4 works and the west dam on the site near Stage 4 works																	
P1.2	The following points referred to in the table below are identified in this licence for the purposes of weather and/or noise monitoring and/or setting limits for the emission of noise from the premises. <table><tr><th colspan="3">Noise/Weather</th></tr><tr><th>EPA identification no.</th><th>Type of monitoring point</th><th>Location description</th></tr><tr><td>2</td><td>Meteorological Station</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>	Noise/Weather			EPA identification no.	Type of monitoring point	Location description	2	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							
Noise/Weather																				
EPA identification no.	Type of monitoring point	Location description																		
2	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																		

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Cond. No.	Conditional Requirement	Compliance Status	Basis for Compliance	Comments and Recommended Actions										
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.	Compliant	HR61-2022 HR62-2022 HR63-2022 HR64-2022	No discharges of water were reported for the Quarry during the audit period. No incidents regarding the pollution of water were recorded during the audit period.										
L2 Waste														
L2.1	<p>The licensee must not cause, permit or allow any waste to be received at the premises, except the wastes expressly referred to in the column titled "Waste" and meeting the definition, if any, in the column titled</p> <p>"Description" in the table below.</p> <p>Any waste received at the premises must only be used for the activities referred to in relation to that waste in the column titled "Activity" in the table below.</p> <p>Any waste received at the premises is subject to those limits or conditions, if any, referred to in relation to that waste contained in the column titled "Other Limits" in the table below.</p> <p>This condition does not limit any other conditions in this licence.</p> <table border="1"> <thead> <tr> <th>Code</th><th>Waste</th><th>Description</th><th>Activity</th><th>Other Limits</th></tr> </thead> <tbody> <tr> <td>NA</td><td>Waste</td><td>Waste received must be VENM or ENM that meets all the conditions of a resource recovery order (made under clause 93 of the POEO (Waste) Regulation 2019) at the time it is received.</td><td>-</td><td>No more than 250,000 tonnes of VENM and ENM in total, can be received at the premises in any calendar year.</td></tr> </tbody> </table>	Code	Waste	Description	Activity	Other Limits	NA	Waste	Waste received must be VENM or ENM that meets all the conditions of a resource recovery order (made under clause 93 of the POEO (Waste) Regulation 2019) at the time it is received.	-	No more than 250,000 tonnes of VENM and ENM in total, can be received at the premises in any calendar year.	Compliant	HR61-2022 HR62-2022 HR63-2022 HR64-2022	<p>The 2019/2020, 2020/2021 and 2021/2022 Annual Reviews record the following quantities of VENM were received at the Quarry site during the audit period.</p> <ul style="list-style-type: none"> - 2019 = 29,496t - 2020 = nil - 2021 = 8,662t - 2022 = nil (to June 2022). <p>DA165-7-2005 permits the importation of up to 100,000t of ENM/VENM material per calendar year.</p>
Code	Waste	Description	Activity	Other Limits										
NA	Waste	Waste received must be VENM or ENM that meets all the conditions of a resource recovery order (made under clause 93 of the POEO (Waste) Regulation 2019) at the time it is received.	-	No more than 250,000 tonnes of VENM and ENM in total, can be received at the premises in any calendar year.										
L2.2	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 of any waste generated at the premises to be disposed of at the premises, except as expressly permitted by a licence under the Protection of the Environment Operations Act 1997.	Compliant	HR61-2022 HR62-2022 HR63-2022 HR64-2022 Advice from Environmental Officer	With the exception of VENM (see above), no waste generated outside the Quarry site was accepted from storage, treatment, processing, reprocessing or disposal during the audit period.										

Table A4-2 (Cont'd)
Compliance Review – EPL 12513

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Cond. No.	Conditional Requirement	Compliance Status	Basis for Compliance	Comments and Recommended Actions																																																							
3 Limit Conditions (Cont'd)																																																											
L3 Noise limits																																																											
L3.1	<p>Noise generated at the premises must not exceed the noise limits presented in the table below. Note that the noise limits represent the noise contribution from the Haerses Road sand quarry site at Maroota.</p> <table border="1"> <thead> <tr> <th>Receiver</th><th>Location</th><th>Day</th><th>Shoulder (6am to 7am)</th><th>Shoulder (6am to 7am)</th></tr> <tr> <th></th><th></th><th>LAeq(15 minutes)</th><th>LAeq(15 minutes)</th><th>LA(max)</th></tr> </thead> <tbody> <tr> <td>R1</td><td>1710 Wisemans Ferry Road</td><td>40</td><td>35</td><td>52</td></tr> <tr> <td>R2</td><td>1700 Wisemans Ferry Road</td><td>40</td><td>35</td><td>52</td></tr> <tr> <td>R3</td><td>1643 Wisemans Ferry Road</td><td>40</td><td>37</td><td>52</td></tr> <tr> <td>R4</td><td>1617 Wisemans Ferry Road</td><td>40</td><td>35</td><td>52</td></tr> <tr> <td>R6</td><td>1543 Wisemans Ferry Road</td><td>41</td><td>35</td><td>52</td></tr> <tr> <td>R7</td><td>1539 Wisemans Ferry Road</td><td>40</td><td>35</td><td>52</td></tr> <tr> <td>R8</td><td>1521 Wisemans Ferry Road</td><td>40</td><td>35</td><td>52</td></tr> <tr> <td colspan="2">All other residences on privately owned land</td><td>40</td><td>35</td><td>52</td></tr> <tr> <td>R5</td><td>1579 Wisemans Ferry Road</td><td>41</td><td>35</td><td>52</td></tr> </tbody> </table>	Receiver	Location	Day	Shoulder (6am to 7am)	Shoulder (6am to 7am)			LAeq(15 minutes)	LAeq(15 minutes)	LA(max)	R1	1710 Wisemans Ferry Road	40	35	52	R2	1700 Wisemans Ferry Road	40	35	52	R3	1643 Wisemans Ferry Road	40	37	52	R4	1617 Wisemans Ferry Road	40	35	52	R6	1543 Wisemans Ferry Road	41	35	52	R7	1539 Wisemans Ferry Road	40	35	52	R8	1521 Wisemans Ferry Road	40	35	52	All other residences on privately owned land		40	35	52	R5	1579 Wisemans Ferry Road	41	35	52	Compliant	HR61-2022 HR62-2022 HR63-2022 HR64-2022	Attended noise monitoring undertaken during June 2020, June 2021, December 2021 and June 2022 indicated that and recorded noise levels associated with the Quarry were compliant with the relevant assessment criteria. These results incorporate setback calculations which utilise at-source noise monitoring to determine predicted noise impacts.
Receiver	Location	Day	Shoulder (6am to 7am)	Shoulder (6am to 7am)																																																							
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L3.2	<p>For the purpose of Condition L3.1</p> <ul style="list-style-type: none"> Day is defined as the period from 7am to 6pm Sunday and Public Holidays. Night is defined as the period from 10pm to 7am Monday to Saturday and 10pm to 8am Sundays and Public Holidays. 	-	-	Noted																																																							

Table A4-2 (Cont'd)
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Cond. No.	Conditional Requirement	Compliance Status	Basis for Compliance	Comments and Recommended Actions
3 Limit Conditions (Cont'd)				
L3 Noise limits (Cont'd)				
L3.3	<p>Noise from the premises is to be measured at the most affected point or within the residential boundary or the most affected point within 30m of the dwelling (rural situations) where the dwelling is more than 30m from the boundary to determine compliance with the LAeq(15 minutes) noise limit in Condition L3.1.</p> <p>Where it can be demonstrated that direct measurement of noise from the premises is impractical, the EPA may accept alternate means of determining compliance. See relevant chapter of NSW Noise Policy for Industry.</p> <p>The modification factors presented in Fact Sheet C of the NSW Noise Policy for Industry must also be applied to the measured noise levels where applicable.</p> <p>Definition:</p> <p>LA10(15 minutes) is the sound pressure level that is exceeded for 10% of the time when measured over a 15 minute period.</p> <p>Note: Noise measurement</p> <p>For the purpose of noise measures required for this condition, the LA10 noise level must be measured or computed at any point specified in the table above over a period of 15 minutes using "FAST" response on the sound level meter.</p>	Compliant	<p>HR61-2022</p> <p>HR62-2022</p> <p>HR63-2022</p> <p>HR64-2022</p> <p>Advice from Environmental Officer</p>	<p>Annual Reviews for 2019/2020, 2020/2021 and 2021/2022 indicate that noise monitoring was conducted at appropriate locations with reference to listed residential receivers.</p> <p>An agreement exists between Dixon Sand and the owners of Residence R2 and Dixon Sand and residences east of Hitchcock Road. Noise management levels are therefore not applicable at these locations.</p>
	<p>For the purpose of the noise criteria for this Condition, 5dBA must be added to the measures level if the noise is substantially tonal or impulsive in character. The location or point of impact can be different for each development. Measurement locations can be:</p> <ul style="list-style-type: none"> 1 metre from the façade of the residence for night time assessment; at the residential boundary, 30 metres from the residence (rural situations) where boundary is more than 30 metres from residence. 	-	-	Noted

Table A4-2 (Cont'd)
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Cond. No.	Conditional Requirement	Compliance Status	Basis for Compliance	Comments and Recommended Actions
3 Limit Conditions (Cont'd)				
L3 Noise limits (Cont'd)				
L3.4	Noise from the premises is to be measured at 1 metre from the dwelling façade to determine compliance with the $L_{A(max)}$ noise level in Condition L3.1.	Compliant	HR61-2022 HR62-2022 HR63-2022 HR64-2022	Attended noise monitoring was undertaken at-source and at receivers where permission to enter the property was granted. Where permission was not granted or where extraneous noises represented the dominant noise source, predicted noise levels were extrapolated from measurements taken from the near-distance location to the sensitive receiver location.
L3.5	The noise emission limits identified in Condition L3.1 apply under all meteorological conditions (wind speed up to 3m/s at 10 metres above ground level, except under conditions of temperature inversions) must be addressed by: <ul style="list-style-type: none"> Documenting noise complaints received to identify any higher level of impacts or patterns of temperature inversions; and Where levels of noise complaints indicate a higher level of impact then actions to quantify and ameliorate any enhanced impacts under temperature inversions conditions should be developed and implemented. 	Compliant	HR61-2022 HR62-2022 HR63-2022 HR64-2022	No noise-related complaints were received during the audit period.
L3.6	Activities at the premises, other than construction work, may only be carried out between 0600 hours and 1800 hours Monday to Saturday, and at no time on Sundays and Public Holidays.	Compliant	HR61-2022 HR62-2022 HR63-2022 HR64-2022 Spot check truck despatch record	Complaints and responses to complaints received during the audit period do not indicate that any activities were undertaken outside of the approved operating hours. A spot check of weighbridge dockets during the site inspection indicated that truck movements occurred only within the approved hours of operations.
L3.7	This condition does not apply to the delivery of material outside the hours of operation permitted by Condition L3.6, if that delivery is required by police or other authorities for safety reasons; and/or the operation or personnel or equipment are endangered. In such circumstances, prior notification is provided to the EPA and affected residents as soon as possible, or within a reasonable period in the case of emergency.	Not Triggered	Advice from Environmental Officer	No deliveries or operations outside of approved hours were requested or required by authorities during the audit period.

Table A4-2 (Cont'd)
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Cond. No.	Conditional Requirement	Compliance Status	Basis for Compliance	Comments and Recommended Actions
3 Limit Conditions (Cont'd)				
L3 Noise limits (Cont'd)				
L3.8	The hours of operation specified in Conditions L3.6 may be varied with written consent if the EPA is satisfied that the amenity of the residents in the locality will not be adversely affected.	-	-	Noted
L4 Potentially offensive odour				
L4.1	The licensee must not cause or permit the emission of offensive odour beyond the boundary of the premises. Note: Section 129 of the Protection of the Environment Operations Act 1997, provides that the licensee must not cause or permit the emission of any offensive odour from the premises but provides a defence if the emission is identified in the relevant environment protection licence as a potentially offensive odour and the odour was emitted in accordance with the conditions of a licence directed at minimising odour.	Compliant	HR61-2022 HR62-2022 HR63-2022 HR64-2022	No complaints were received during the audit period regarding the emission of offensive odours from the Quarry.
4 Operating Conditions				
O1 Activities must be carried out in a competent manner				
O1.1	Licensed activities must be carried out in a competent manner. This includes: a) the processing, handling, movement and storage of materials and substances used to carry out the activity; and b) the treatment, storage, processing, reprocessing, transport and disposal of waste generated by the activity.	Compliant	Observations HR61-2022 HR62-2022 HR63-2022 HR64-2022	All processing, handling or movement of activities were observed during the site inspection to be undertaken in a competent manner. No issues were identified with the storage of substances at the Quarry. The waste register provided in Annual Reviews during the audit period indicates that waste collection and disposal is undertaken appropriately. No incidents involving the inappropriate operation of plant were recorded during the audit period.

Table A4-2 (Cont'd)
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Cond. No.	Conditional Requirement	Compliance Status	Basis for Compliance	Comments and Recommended Actions
4 Operating Conditions				
O2 Maintenance of plant and equipment				
O2.1	All plant and equipment installed at the premises or used in connection with the licensed activity: a) must be maintained in a proper and efficient condition; and b) must be operated in a proper and efficient manner.	Compliant	Observations	The mobile and fixed plant observed to be operating during the site inspection was considered to be operated in a proper and efficient condition. Plant and vehicle maintenance records were sighted during the site inspection.
O3 Dust				
O3.1	All operations and activities occurring at the premises must be carried out in a manner that will minimise the emission of dust from the premises.	Compliant	Observations HR61-2022 HR62-2022 HR63-2022 HR64-2022	It is considered that the site has generally been maintained in a condition which minimises the emission of dust.
O3.2	Trucks entering and leaving the premises that are carrying loads must be covered at all times, except during loading and unloading.	Compliant	Observation HR079-2022	The TMP includes the requirement that all trucks entering or leaving the Quarry must have loads covered. Trucks were observed leaving the premises with covered loads during the site inspection.
O3.3	The licensee must maintain and operate a continuous dust monitoring device at monitoring Point 1 identified in Condition P1.1. The device must be fitted with an automatic alarm system alerting quarry managers once the trigger value for PM ₁₀ (42µg/m ³) is reached.	Compliant	Dixon Sand Website HR61-2022 HR62-2022 HR63-2022 HR64-2022 HR75-2022 Advice from Environmental Officer	Dust monitoring records present on Dixon Sand website. Dust monitoring results and calibration reported in Annual Reviews during the audit period. Location of monitoring station shown in Environmental Monitoring Plan is consistent with Point 2 identified in Condition P1.1. An alarm system sends text messages to Quarry personnel in the event of trigger value exceedances.

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Cond. No.	Conditional Requirement	Compliance Status	Basis for Compliance	Comments and Recommended Actions																				
4 Operating Conditions																								
O3 Dust (Cont'd)																								
O3.4	Dust deposition gauges installed at the site must be operated and maintained in accordance with the current Australian Standard: <i>Ambient air - Particulate matter Determination of deposited matter expressed as insoluble solids, ash, combustible matter, soluble solids and total solids for deposition gauges.</i>	Compliant	HR61-2022 HR62-2022 HR63-2022 HR64-2022	CBased Environmental Pty Limited air quality reports included as appendices to Annual Reviews, indicate sampling in accordance with AS3580.1.1 (supersedes AS 2724.1) and AS3580.9.8.																				
O3.5	The licensee must operate and maintain a continuous automatic meteorological station at monitoring Point 2 identified in Condition P1.2 of the licence according to the requirements of the current Australian Standard: <i>Ambient air - Guide for measurement of horizontal wind for air quality applications.</i> Wind monitoring components of the meteorological station must be interfaced with the continuous dust monitoring device identified in Condition P1.1.	Compliant	HR61-2022 HR62-2022 HR63-2022 HR64-2022 HR75-2022	Meteorological data and calibration of the meteorological station reported in Annual Reviews during the audit period. Location of monitoring station shown in Environmental Monitoring Plan is consistent with Point 2 identified in Condition P1.1.																				
O3.6	The licensee must ensure that dust generated by the development does not cause any additional exceedances of the air quality impact assessment criteria listed in the table below at any residence on any privately owned land, listed in Condition L3.1. Note: Deposited dust is assessed as insoluble solids as defined by Standards Australia AS 3580.10.1, <i>Methods for Sampling and Analysis of Ambient Air - Determination of Particulates - Deposition Matter - Gravimetric Methods.</i> <table><tr><th>Pollutant</th><th>Averaging period</th><th>Reference Condition</th><th>Criterion</th></tr><tr><td>Total suspended particulate (TSP)</td><td>Annual</td><td>Long term</td><td>90 ug/m3</td></tr><tr><td>Particulate matter <10 um (PM10)</td><td>Annual</td><td>Long term</td><td>30 ug/m3</td></tr><tr><td>Particulate matter <10 um (PM10)</td><td>24 hour</td><td>Short term</td><td>50 ug/m3</td></tr><tr><td>Deposited dust</td><td>Annual</td><td>Long term</td><td>4g/m2/month (max total) 2g/m2/month (max increase)</td></tr></table>	Pollutant	Averaging period	Reference Condition	Criterion	Total suspended particulate (TSP)	Annual	Long term	90 ug/m3	Particulate matter <10 um (PM10)	Annual	Long term	30 ug/m3	Particulate matter <10 um (PM10)	24 hour	Short term	50 ug/m3	Deposited dust	Annual	Long term	4g/m2/month (max total) 2g/m2/month (max increase)	Compliant	HR61-2022 HR62-2022 HR63-2022 HR64-2022 HR109-2022	Whilst monthly and annual deposited dust levels exceeded the maximum deposited dust criteria, these results were not considered to be as a result of “dust generated by the development”. One self-reported elevated PM ₁₀ measurement was deemed by the EPA not to represent an incident as it was not attributed to Quarry-related activities.
Pollutant	Averaging period	Reference Condition	Criterion																					
Total suspended particulate (TSP)	Annual	Long term	90 ug/m3																					
Particulate matter <10 um (PM10)	Annual	Long term	30 ug/m3																					
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Deposited dust	Annual	Long term	4g/m2/month (max total) 2g/m2/month (max increase)																					

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Cond. No.	Conditional Requirement	Compliance Status	Basis for Compliance	Comments and Recommended Actions
4 Operating Conditions (Cont'd)				
O4 Processes and management				
O4.1	A Site Water Management Plan (SWMP) must be implemented at the premises. The plan must include a Soil and Water Management Plan, a Stormwater Management Scheme and a Groundwater Monitoring Program.	Compliant	HR78-2022	The site currently operates in accordance with the SWMP dated November 2020. Section 3 of the SWMP outlines the water management system for the Quarry which includes stormwater management. Section 5.2.2 of the SWMP includes a groundwater monitoring program.
O4.2	The Soil and Water Management Plan must: a) describe what measures will be implemented to minimise soil erosion, and the discharge of sediment and other pollutants, during each stage of the development including: i) road and intersection works; ii) initial clearing and topsoil stripping; iii) extraction; and iv) noise bund construction.	Compliant	HR78-2022	Section 3.2 of the SWMP outlines erosion and sediment controls relevant to current operations. It also states that progressive Erosion and Sediment Control plans will be developed for the Quarry to cover changing site conditions.
	b) include control measures that have the capacity to contain rainfall and stormwater runoff generated from a 90th percentile, 5 day rainfall event for the life of the development.	Compliant	HR78-2022	Sediment basin design criteria have been prepared with consideration of a 90 th percentile, 5 day rainfall event.
O4.3	The Groundwater Monitoring Program must: a) describe what measures would be put in place to establish wet weather groundwater levels at the premises; b) monitor any potential adverse impacts of the development on groundwater levels and quality; c) detail contingency measures that would be put in place in the event that groundwater is breached and/or contaminated. The SWMP should be prepared in accordance with the requirements of <i>Managing Urban Stormwater Soil and Construction</i> Latest Edition.	Compliant	HR78-2022	Section 5.2.2 and Appendix 3 of the SWMP outline a groundwater monitoring program and the assessment undertaken to determine the wet weather groundwater levels at the Quarry. Section 6 includes response measures to be implemented in the event that groundwater is breached or contaminated. The SWMP has been prepared in accordance with the Landcom (2004) guidelines <i>Managing Urban Stormwater – Soils and Construction</i> .

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Cond. No.	Conditional Requirement	Compliance Status	Basis for Compliance	Comments and Recommended Actions
4 Operating Conditions (Cont'd)				
O4 Processes and management (Cont'd)				
O4.4	The Stormwater Management Scheme mentioned in Condition O4.1 must mitigate the impacts of stormwater run-off from and within the premises at all times. The Scheme should be consistent with the Stormwater Management Plan for the catchment. Where a Stormwater Management Plan has not yet been prepared the Scheme should be consistent with the guidance contained in the latest edition of Landcom's Manual titled "Managing Urban Stormwater Soil and Construction Volume 1".	Compliant	HR78-2022	The water management system for the Quarry, including management measures targeting stormwater, have been developed in accordance with the Landcom (2004) guideline <i>Managing Urban Stormwater - Soils and Construction, Volume 1</i> .
O4.5	The licensee must construct and maintain sediment dams for every stage of the extraction area for the life of the quarry. Sediment dams must be in place prior to any extraction taking place in the respective strip of each stage and must be designed and constructed in accordance with the most recent edition of Managing Urban Stormwater Soil and Construction. Notwithstanding the above, the dams must have sufficient capacity to contain rainfall and runoff generated from a 90th percentile, five day rainfall event ("the design event") for the life of the quarry.	Compliant	Observations HR78-2022	Sediment dams were sighted in the Stage 1 and Stage 2 extraction areas and south of the Wet and Dry Processing Plant during the site inspection. Sediment dams/basins have been designed in accordance with the Landcom (2204) guidelines <i>Managing urban Stormwater – Soils and Construction</i> and have been designed to capture runoff associated with the specified rainfall event.
O4.6	If mud, sediment or other raw materials are found to be tracked off the premises the Company must install, operate and maintain on the premises an automatic wheel wash or similar facility that will be capable of washing the underside of vehicles, wheels, wheel arches and axles of all vehicles leaving the premises. In addition to this, appropriate measures must be put in place that ensures that all vehicles leaving premises must go through the wheel wash facility.	Not Triggered	Observation	No materials were observed to have been tracked off the premises during the site inspection.
O4.7	The entrance to the premises must be maintained in a sealed state.	Compliant	Observation	The entry to the Quarry was observed to be sealed and well maintained.

Table A4-2 (Cont'd)
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Cond. No.	Conditional Requirement	Compliance Status	Basis for Compliance	Comments and Recommended Actions
4 Operating Conditions (Cont'd)				
O4 Processes and management (Cont'd)				
O4.8	The sealed access road to the premises must be kept free of dust, sediment and other raw materials at all times.	Compliant	Observation	No materials were observed to have been tracked off the premises during the site inspection and the sealed access road was observed to be clear of dust, sediment and other raw materials.
O4.9	The licensee must prevent any tracking of mud on public roads by vehicles leaving the premises.	Compliant	Observation	No materials were observed to have been tracked off the premises during the site inspection.
O5 Waste management				
O5.1	No more than 250,000 tonnes of VENM and ENM in total, can be received at the premises in any calendar year. Note: ENM may be received at the premises, as per this condition, provided it meets the conditions of a resource recovery order at the time it is received.	Compliant	HR61-2022 HR62-2022 HR63-2022 HR64-2022	The 2019/2020, 2020/2021 and 2021/2022 Annual Reviews indicate VENM was received at the Quarry site during the audit period. - 2019 = 29,496t - 2020 = nil - 2021 = 8,662t - 2022 = nil (to June 2022).
5 Monitoring and Recording Conditions				
M1 Monitoring Records				
M1.1	The results of any monitoring required to be conducted by this licence or a load calculation protocol must be recorded and retained as set out in this condition.	Compliant	Dixon Sand Website HR61-2022 HR62-2022 HR63-2022 HR64-2022	Monitoring data during the audit period has been recorded as required and is available on the Dixon Sand Website.
M1.2	All records required to be kept by this licence must be: a) in a legible form, or in a form that can readily be reduced to a legible form; 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 HR61-2022 HR62-2022 HR63-2022 HR64-2022 Observation	Monitoring data and records required by the licence during the audit period have been retained in a legible form during the audit period. Digital records of continuous PM ₁₀ monitoring were 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)				
M1.3	The following records must be kept in respect of any samples required to be collected for the purposes of this licence: a) the date(s) on which the sample was taken; b) the time(s) at which the sample was collected; c) the point at which the sample was taken; and d) the name of the person who collected the sample.	Compliant	Dixon Sand Website Observation	Digital records of continuous PM ₁₀ monitoring containing the relevant details were sighted during the site inspection.
M1.4	The licensee must keep in an electronic format the following records for monitoring Point 1 identified in licence Condition P1.1: (a) each 15 minute PM ₁₀ result; (b) each rolling 24-hour average PM ₁₀ results (15 minutes); (c) each daily 24-hour average PM ₁₀ result (midnight to midnight); and (d) the rolling annual average PM ₁₀ result (each day, midnight to midnight, and over the total number of days of monitoring since monitoring began for first year of monitoring only).	Compliant	Dixon Sand Website Observation	Digital records of continuous PM ₁₀ monitoring containing the relevant details were sighted during the site inspection.
M1.5	The licensee must keep in an electronic format the following records for Point 2 identified in licence Condition P1.2: each 15 minute, 1 hour and 24 hour result as indicated in the table at Condition M4.1.	Compliant	Dixon Sand Website Observation	Digital meteorological station monitoring records containing the relevant details were 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:	Compliant	Dixon Sand Website Observation	Digital records of continuous PM ₁₀ monitoring containing the relevant details were 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)												
M2 Requirement to monitor concentration of pollutants discharged (Cont'd)												
M2.2	Air Monitoring Requirements <div>POINT 1</div> <table><thead><tr><th>Pollutant</th><th>Units of measure</th><th>Frequency</th><th>Sampling Method</th></tr></thead><tbody><tr><td>PM10</td><td>micrograms per cubic metre</td><td>Continuous</td><td>Australian Standard 3580.9.8 - 2001</td></tr></tbody></table>	Pollutant	Units of measure	Frequency	Sampling Method	PM10	micrograms per cubic metre	Continuous	Australian Standard 3580.9.8 - 2001	Compliant	HR61-2022 HR62-2022 HR63-2022 HR64-2022	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	If any rolling 24-hour average PM ₁₀ result measured at Point 1 in licence Condition M2.2 is found to be greater than 42 µg/m ³ and the prevailing wind at the site is between 180 and 240 degrees as measured at Point 2: <div>i) the licensee must take immediate action to reduce its PM₁₀ emissions;</div> <div>ii) the licensee must immediately notify the EPA Manager Sydney Industry;</div> <div>iii) if the dust level does not return to below 42 µg/m³ within 1 hour then all dust generating activity on site must stop; and,</div> <div>iv) dust generating activity may only recommence when the rolling 24-hour average PM₁₀ result measured at Point 1 is less than 42 µg/m³ for four consecutive 15-minute periods.</div>	Compliant	HR61-2022 HR62-2022 HR63-2022 HR64-2022 Advice from Environmental Officer	Whilst exceedances of the trigger level occurred, the prevailing winds were not occurring from the directions relevant to the HR Quarry.								
M2.4	A comprehensive written action plan must be developed and implemented to ensure compliance with Condition M2.3.	Compliant	HR78-2022	Section 5.2 of the AQMP details reactive management measures to ensure compliance with Condition M2.3.								
M3 Testing methods - concentration limits												
	Note: <i>The Protection of the Environment Operations (Clean Air) Regulation 2021</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> .	-	-	Noted.								

Table A4-2 (Cont'd)
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Cond. No.	Conditional Requirement	Compliance Status	Basis for Compliance	Comments and Recommended Actions																														
5 Monitoring and Recording Conditions (Cont'd)																																		
M3 Testing methods - concentration limits (Cont'd)																																		
M3.1	<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>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>	Compliant	<p>HR61-2022</p> <p>HR62-2022</p> <p>HR63-2022</p> <p>HR64-2022</p>	Monitoring reports confirm use of correct units, frequency, and sampling method specified in Condition M2.2 of the EPL.																														
M4 Weather monitoring																																		
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>POINT 2</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 Celsius</td><td>1 hour</td><td>Continuous</td></tr> <tr> <td>Wind Direction at 10 metres</td><td>AM-2 & AM-4</td><td>-</td><td>15 minutes</td><td>Continuous</td></tr> <tr> <td>Wind Speed at 10 metres</td><td>AM-2 & AM-4</td><td>metres per second</td><td>15 minutes</td><td>Continuous</td></tr> <tr> <td>Sigma Theta</td><td>AM-2 & 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 Celsius	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>Dixon Sand Website</p> <p>Observation</p>	Digital meteorological station monitoring records containing the relevant details were sighted during the site inspection.
Parameter	Sampling method	Units of measure	Averaging period	Frequency																														
Temperature at 10 metres	AM-4	degrees Celsius	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																														

Table A4-2 (Cont'd)
Compliance Review – EPL 12513

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Cond. No.	Conditional Requirement	Compliance Status	Basis for Compliance	Comments and Recommended Actions
5 Monitoring and Recording Conditions (Cont'd)				
M5 Recording of pollution complaints				
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	HR61-2022 HR62-2022 HR63-2022 HR64-2022	Summary of the complaints register included in Annual Reviews during the audit period.
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 HR61-2022 HR62-2022 HR63-2022 HR64-2022	Annual Reviews include copies of complaints received during the audit period and the complaints register was sighted during the site inspection. The complaints register for Haerses Road contains all of the required details.
M5.3	The record of a complaint must be kept for at least 4 years after the complaint was made.	Compliant	Observation HR61-2022 HR62-2022 HR63-2022 HR64-2022	Annual Reviews include copies of complaints received during the audit period and the complaints register was sighted during the site inspection. Copies of Annual Reviews are available on the Dixon Sand Website.
M5.4	The record must be produced to any authorised officer of the EPA who asks to see them.	-	-	Noted.
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	Telephone complaints line: (02) 4566 8348 Additional contact details also available on the Dixon Sand website.

Table A4-2 (Cont'd)
Compliance Review – EPL 12513

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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 (Cont'd)				
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	Dixon Sand Website Front Gate	The telephone complaints line is advertised on the Dixon Sand website and at the Quarry's front gate.
M6.3	The preceding two conditions do not apply until 3 months after the date of the issue of this licence.	-	-	Noted.
6 Reporting Conditions				
R1 Annual return documents				
R1.1	The licensee must complete and supply to the EPA an Annual Return in the approved form comprising: 1. a Statement of Compliance, 2. a Monitoring and Complaints Summary, 3. a Statement of Compliance - Licence Conditions, 4. a Statement of Compliance - Load based Fee, 5. a Statement of Compliance - Requirement to Prepare Pollution Incident Response Management Plan, 6. a Statement of Compliance - Requirement to Publish Pollution Monitoring Data; and 7. a Statement of Compliance - Environmental Management Systems and Practices. At the end of each reporting period, the EPA will provide to the licensee notification that the Annual Return is due.	Compliant	HR115-2022 HR116-2022 HR117-2022 HR118-2022	Annual Returns for 2018/2019, 2019/2020, 2020/2021 and 2021/2022 provided. Electronic copies of each Annual Return were submitted via eConnect Portal during the audit period.
R1.2	An Annual Return must be prepared in respect of each reporting period, except as provided below.	Compliant	HR115-2022 HR116-2022 HR117-2022 HR118-2022	Annual Returns were prepared for the 2018/2019, 2019/2020, 2020/2021 and 2021/2022 reporting periods and were submitted within 60 days of the end of each reporting period (24 July).

Table A4-2 (Cont'd)
Compliance Review – EPL 12513

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Cond. No.	Conditional Requirement	Compliance Status	Basis for Compliance	Comments and Recommended Actions
6 Reporting Conditions (Cont'd)				
R1 Annual return documents (Cont'd)				
R1.3	Where this licence is transferred from the licensee to a new licensee: a) the transferring licensee must prepare an Annual Return for the period commencing on the first day of the reporting period and ending on the date the application for the transfer of the licence to the new licensee is granted; and b) the new licensee must prepare an Annual Return for the period commencing on the date the application for the transfer of the licence is granted and ending on the last day of the reporting period.	Not Triggered	-	The EPL was not transferred to a new licensee during the audit period.
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	HR115-2022 HR116-2022 HR117-2022 HR118-2022	Annual Returns were prepared for the 2018/2019, 2019/2020, 2020/2021 and 2021/2022 reporting periods and were submitted via eConnect within 60 days of the end of each reporting period (24 July).
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	HR115-2022 HR116-2022 HR117-2022 HR118-2022	Annual Returns for 2018/2019, 2019/2020, 2020/2021 and 2021/2022 provided.

Table A4-2 (Cont'd)
Compliance Review – EPL 12513

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Cond. No.	Conditional Requirement	Compliance Status	Basis for Compliance	Comments and Recommended Actions
6 Reporting Conditions (Cont'd)				
R1 Annual return documents (Cont'd)				
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	HR115-2022 HR116-2022 HR117-2022 HR118-2022	Submission of Annual Returns via eConnect requires signoff from licence holder or authorised representative.
	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. Note: An application to transfer a licence must be made in the approved form for this purpose.	-	-	Noted.
R2 Notification of environmental harm				
R2.1	Notifications must be made by telephoning the Environment Line service on 131 555.	Not Triggered	HR61-2022 HR62-2022 HR63-2022 HR64-2022	No 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 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.	Not Triggered	HR61-2022 HR62-2022 HR63-2022 HR64-2022	As above.
	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.	Not Triggered	HR61-2022 HR62-2022 HR63-2022 HR64-2022 Advice from Environmental Officer	No incidents causing or threatening material harm to the environment were recorded during the reporting period.

Table A4-2 (Cont'd)
Compliance Review – EPL 12513

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Cond. No.	Conditional Requirement	Compliance Status	Basis for Compliance	Comments and Recommended Actions
6 Reporting Conditions (Cont'd)				
R3 Written report				
R3.1	Where an authorised officer of the EPA suspects on reasonable grounds that: a) where this licence applies to premises, an event has occurred at the premises; or b) where this licence applies to vehicles or mobile plant, an event has occurred in connection with the carrying out of the activities authorised by this licence, and the event has caused, is causing or is likely to cause material harm to the environment (whether the harm occurs on or off premises to which the licence applies), the authorised officer may request a written report of the event.	-	-	Noted.
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	HR109-2022 HR119-2022	A request for information was received from the EPA on 12 October 2021 following the self-reporting of an exceedance of the PM ₁₀ criteria. Following receipt of Dixon Sand's response, the EPA concluded that the exceedance was not attributed to Quarry-related activities.
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;	Compliant	HR120-2022 HR119-2022 HR109-2022	Dixon Sand provided a report on 14 October 2021 in response to a request for information received from the EPA on 12 October 2021. The response satisfied the EPA's requirements.

Table A4-2 (Cont'd)
Compliance Review – EPL 12513

Page 21 of 21

Cond. No.	Conditional Requirement	Compliance Status	Basis for Compliance	Comments and Recommended Actions
6 Reporting Conditions (Cont'd)				
R3 Written report (Cont'd)				
R3.3 (Cont'd)	e) action taken by the licensee in relation to the event, including any follow-up contact with any complainants; f) details of any measure taken or proposed to be taken to prevent or mitigate against a recurrence of such an event; and g) any other relevant matters.			
R3.4	The EPA may make a written request for further details in relation to any of the above matters if it is not satisfied with the report provided by the licensee. The licensee must provide such further details to the EPA within the time specified in the request.	Compliant	HR120-2022 HR119-2022 HR109-2022	Dixon Sand provided a report on 14 October 2021 in response to a request for information received from the EPA on 12 October 2021. The response satisfied the EPA's requirements.
7 General Conditions				
G1 Copy of licence kept at the premises or plant				
G1.1	A copy of this licence must be kept at the premises to which the licence applies.	Compliant	Observation	A hard copy of the EPL was observed at the site office during the site inspection.
G1.2	The licence must be produced to any authorised officer of the EPA who asks to see it.	-	-	Noted.
G1.3	The licence must be available for inspection by any employee or agent of the licensee working at the premises.	Compliant	Observation	A hard copy of the EPL was observed at the site office during the site inspection.
G2 Other general conditions				
G2.1	A community environment liaison committee must be maintained, comprising representatives of the community and the applicant, that will meet at least every 6 months. Discussion at the meetings must include implementation of the development consent and other statutory approvals, and provide adequate time for the community to raise matters of concern associated with the environmental impacts of the operation, with a view to achieving mutually satisfactory solutions.	Compliant	HR51-2019	Approval from DPE on 1 March 2018 to maintain the existing CCC arrangement.

Table A4-3
Compliance Review – WAL 25941

Page 1 of 4

Cond. No.	Conditional Requirement	Compliance Status	Basis for Compliance	Comments and Recommended Actions
Take of water				
MW0080-00014	From 1 July 2011, water must not be taken from the Cattai Creek Management Zone of the Hawkesbury and Lower Nepean Rivers Water Source when flows are in the Very Low Flow Class, which means that the flow is 3ML/day or less at Cattai Creek at the Cattai Ridge Road gauge [No. 2122951]. This restriction does not apply if water is to be taken from a runoff harvesting dam or an in-river dam pool.	Not Triggered	Advice from Environmental Officer	Water was harvested from on-site dams during the audit period.
MW0112-00001	The maximum water allocation that may be carried over in the account for this access licence from one water year to the next water year is: A. a volume equal to 100 % of the share component of the licence, or B. 1ML/unit share of the share component of the licence.	Not Triggered	Advice from Environmental Officer	Water has not been required or requested to be carried over.
MW0036-00002	The volume of water taken in any three (3) consecutive water years from 1 July 2012 must be recorded in the logbook at the end of those three water years. The maximum volume of water permitted to be taken in those years must also be recorded in the logbook.	Compliant	Sighted log book	A log book has been maintained to record pump run times which are utilised to calculate the volume of water taken.
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	-	Section 4.41 of the <i>Environmental Planning & Assessment Act 1979</i> confirms that a water use approval under Section 89, a water management work approval under Section 90 of the <i>Water Management Act 2000</i> do not apply to State Significant Development.
MW0670-00001	Water must only be taken if there is visible flow in the water source at the location where water is to be taken. This restriction does not apply if water is to be taken: A. from an off-river pool, an in-river pool, a runoff harvesting dam or an in-river dam pool, or B. from the following Weirs: Maldon, Douglas Park, Menangle, Camden, Sharpes, Cobbity, Mount Hunter Rivulet, Brownlow Hill, Theresa Park and Wallacia.	Not Triggered	Advice from Environmental Officer	Water is harvested from on-site dams.

Table A4-3 (Cont'd)
Compliance Review – WAL 25941

Page 2 of 4

Cond. No.	Conditional Requirement	Compliance Status	Basis for Compliance	Comments and Recommended Actions
Take of water (Cont'd)				
MW0078-00005	In the Cattai Creek Management Zone of the Hawkesbury and Lower Nepean Rivers Water Source, if the flow is less than 3ML/day at Cattai Creek at the Cattai Ridge Road gauge [No. 2122951] for a period of 24 or more consecutive hours, then there must be a minimum flow of 3ML/day at that gauge for at least 24 hours before water can be taken.	Not Triggered	HR61-2022	WaterNSW has confirmed that WAL 25941 is attached to a dam on a first order watercourse. Under the <i>Water Management Act 2000</i> , dams on first order watercourses are deemed to be 'runoff harvesting dams'. The flow condition therefore does not apply.
MW0004-00002	From 1 July 2012, the total volume of water taken in any three (3) consecutive water years under this access licence must not exceed a volume which is equal to the lesser of either:	Compliant	Sighted logbook HR61-2022 HR62-2022 HR63-2022 HR64-2022	The annual water take recorded in the logbook is significantly below the allocated volume. - 2019/2020 = 0.1ML - 2020/2021 = 0.1ML - 2021/2022 = 0.0ML
	A. the sum of:			
	i. water in the account from the available water determinations in those 3 consecutive water years, plus			
	ii. water in the account carried over from the water year prior to those 3 consecutive water years, plus			
	iii. any net amount of water assigned to or from this account under a water allocation assignment in those 3 consecutive water years, plus			
	iv. any water re-credited by the Minister to the account in those 3 consecutive water years, or			

Table A4-3 (Cont'd)
Compliance Review – WAL 25941

Page 3 of 4

Cond. No.	Conditional Requirement	Compliance Status	Basis for Compliance	Comments and Recommended Actions
Take of water (Cont'd)				
	B. the sum of:			
	i. the share component of this licence at the beginning of the first year in those 3 consecutive water years, plus			
	ii. the share component of this licence at the beginning of the second year in those 3 consecutive water years, plus			
	iii. the share component of this licence at the beginning of the third year in those 3 consecutive water years, plus			
	iv. any net amount of water assigned to or from this account under a water allocation assignment in those 3 consecutive water years, plus			
	v. any water re-credited by the Minister to the account in those 3 consecutive water years.			
Monitoring and Recording				
MW2338-00001	The completed logbook must be retained for five (5) years from the last date recorded in the logbook.	Compliant	Sighted logbook	Records have been retained for at least 5 years.
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.	Compliant	Sighted logbook	The logbook includes the date, start and end time and a tally of the volume utilising the pump capacity. A summary of the licences and approval details are also included in the front of the logbook.
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.	Compliant	Sighted logbook	It is advised that data loggers are not utilised. An appropriate logbook was sighted.

Table A4-3 (Cont'd)
Compliance Review – WAL 25941

Page 4 of 4

Cond. No.	Conditional Requirement	Compliance Status	Basis for Compliance	Comments and Recommended Actions
Reporting				
MW0051-00002	Once the licence holder becomes aware of a breach of any condition on this access licence, the licence holder must notify the Minister as soon as practicable. The Minister must be notified by:	Not Triggered	Advice from Environmental Officer	No breaches occurred during the audit period.
	A. email: water.enquiries@dpi.nsw.gov.au , or			
	B. telephone: 1800 353 104. Any notification by telephone must also be confirmed in writing within seven (7) business days of the telephone call.			

Table A4-4
Compliance Review – WAL 25956

Page 1 of 3

Cond. No.	Conditional Requirement	Compliance Status	Basis for Compliance	Comments and Recommended Actions
Take of water				
MW0080-00014	From 1 July 2011, water must not be taken from the Cattai Creek Management Zone of the Hawkesbury and Lower Nepean Rivers Water Source when flows are in the Very Low Flow Class, which means that the flow is 3ML/day or less at Cattai Creek at the Cattai Ridge Road gauge [No. 2122951]. This restriction does not apply if water is to be taken from a runoff harvesting dam or an in-river dam pool.	Not Triggered	Advice from Environmental Officer	Water is harvested from dams.
MW0112-00001	The maximum water allocation that may be carried over in the account for this access licence from one water year to the next water year is: A. a volume equal to 100% of the share component of the licence, or B. 1ML/unit share of the share component of the licence.	Not Triggered	Advice from Environmental Officer	Water has not been required or requested to be carried over.
MW0036-00002	The volume of water taken in any three (3) consecutive water years from 1 July 2012 must be recorded in the logbook at the end of those three water years. The maximum volume of water permitted to be taken in those years must also be recorded in the logbook.	Compliant	Sighted log book	A log book has been maintained of pump run times which are utilised to calculate the volume of water taken.
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	-	Section 4.41 of the <i>Environmental Planning & Assessment Act 1979</i> confirms that a water use approval under Section 89, a water management work approval under Section 90 of the <i>Water Management Act 2000</i> do not apply to State Significant Development.
MW0670-00001	Water must only be taken if there is visible flow in the water source at the location where water is to be taken. This restriction does not apply if water is to be taken: A. from an off-river pool, an in-river pool, a runoff harvesting dam or an in-river dam pool, or B. from the following Weirs: Maldon, Douglas Park, Menangle, Camden, Sharpes, Cobbity, Mount Hunter Rivulet, Brownlow Hill, Theresa Park and Wallacia.	Not Triggered	Advice from Environmental Officer	Water is harvested from on-site dams.

Table A4-4 (Cont'd)
Compliance Review – WAL 25956

Page 2 of 3

Cond. No.	Conditional Requirement	Compliance Status	Basis for Compliance	Comments and Recommended Actions
Take of water (Cont'd)				
MW0078-00005	In the Cattai Creek Management Zone of the Hawkesbury and Lower Nepean Rivers Water Source, if the flow is less than 3ML/day at Cattai Creek at the Cattai Ridge Road gauge [No. 2122951] for a period of 24 or more consecutive hours, then there must be a minimum flow of 3ML/day at that gauge for at least 24 hours before water can be taken.	Not Triggered	-	WaterNSW has confirmed that WAL 25941 is attached to a dam on a first order watercourse. Under the <i>Water Management Act 2000</i> , dams on first order watercourses are deemed to be 'runoff harvesting dams'. The flow condition therefore does not apply.
MW0004-00002	From 1 July 2012, the total volume of water taken in any three (3) consecutive water years under this access licence must not exceed a volume which is equal to the lesser of either:	Compliant	Sighted logbook	The annual water take recorded in the logbook is significantly below the allocated volume. - 2019/2020 = 5.8ML - 2020/2021 = 7.9ML - 2021/2022 = 0.0ML
	A. the sum of:			
	i. water in the account from the available water determinations in those 3 consecutive water years, plus			
	ii. water in the account carried over from the water year prior to those 3 consecutive water years, plus			
	iii. any net amount of water assigned to or from this account under a water allocation assignment in those 3 consecutive water years, plus			
	iv. any water re-credited by the Minister to the account in those 3 consecutive water years, or			
	B. the sum of:			
	i. the share component of this licence at the beginning of the first year in those 3 consecutive water years, plus			
	ii. the share component of this licence at the beginning of the second year in those 3 consecutive water years, plus			
	iii. the share component of this licence at the beginning of the third year in those 3 consecutive water years, plus			
	iv. any net amount of water assigned to or from this account under a water allocation assignment in those 3 consecutive water years, plus			
	v. any water re-credited by the Minister to the account in those 3 consecutive water years.			

Table A4-4 (Cont'd)
Compliance Review – WAL 25956

Page 3 of 3

Cond. No.	Conditional Requirement	Compliance Status	Basis for Compliance	Comments and Recommended Actions
Monitoring and recording				
MW2338-00001	The completed logbook must be retained for five (5) years from the last date recorded in the logbook.	Compliant	Sighted logbook	Records have been retained for at least 5 years.
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.	Compliant	Sighted logbook	The logbook includes the date, start and end time and a tally of the volume utilising the pump capacity. A summary of the licences and approval details are also included in the front of the logbook. It is understood that, during the audit period, water was only taken for agricultural irrigation purposes.
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.	Compliant	Sighted logbook	It is advised that data loggers are not utilised. An appropriate logbook was sighted.
Reporting				
MW0051-00002	Once the licence holder becomes aware of a breach of any condition on this access licence, the licence holder must notify the Minister as soon as practicable. The Minister must be notified by: a) email: water.enquiries@dpi.nsw.gov.au , or b) telephone: 1800 353 104. Any notification by telephone must also be confirmed in writing within seven (7) business days of the telephone call.	Not Triggered	Advice from Environmental Officer	No breaches occurred during the audit period.

Appendix 5

Site Inspection Photographs

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







	
<p>Photo 1: Deposited dust gauge D10/EPL3 - not appropriately numbered (1022B_0001)</p>	<p>Photo 2: Piezometer H2 without protective monument (1022B_0002)</p>
	
<p>Photo 3: View east across Stage 1 and considerable growth on revegetation (1022B_0004)</p>	<p>Photo 4: Area of recent activity in Stage 2 (1022B_0005)</p>
	
<p>Photo 5: Road cutting into Stages 1A and 1B (1022B_0007)</p>	<p>Photo 6: View to the west-southwest across Stage 1A (10225B_0008)</p>



Photo 7: Sandstone log cutting in Stage 1A (1022B_0010)



Photo 8: Southern boundary of Stage 1A with boundary pegs disturbed (1022B_0011)



Photo 9: View to the east along the southern boundary of Stage 1A with boundary pegs disturbed (1022B_0012)



Photo 10: View to the north along the western boundary of Stage 1A – with many boundary pegs buried by bund wall (1022B_0013)



Photo 11: View to the south along bund wall positioned on/beyond boundary of Stage 1A (1022B_0014)



Photo 12: A boundary peg partly buried by the bund wall constructed on the western boundary of Stage 1A (1022B_0016)



Photo 13: Area of previous discharge from Stage 1A during unreasonable rainfall (1022B_0018)



Photo 14: View to the west along section of the northern boundary of Stage 1A (1022B_0020)



Photo 15: Ripping sandstone in Stage 1B (1022B_0024)



Photo 16: Initial construction for wet and dry processing plant (1022B_0031)



Photo 17: Mobile sand processing plant (1022B_0034)



Photo 18: Water cart filling area (1022B_0039)



Photo 19: View to the northwest across Stage 2 West (1022B_0041)



Photo 20: Current dam within Stage 2 East (1022B_0045)



Photo 21: Remnant stockpile from previous activities (1022B_0047)



Photo 22: Access road/power line across Stage 2 East (1022B_0048)



Photo 23: Sandstone log cutting in Stage 2 West (1022B_0052)



Photo 24: Sandstone blocks and logs stored near Stage 2 West (1022B_0060)

	
<p>Photo 25: Overburden/ "soil" recently stockpiled north of Stage 2 West (1022B_0062)</p>	<p>Photo 26: Side slope of overburden/ "soil" north of Stage 2 West (1022B_0063)</p>
	
<p>Photo 27: Existing agricultural paddock with overburden/"soil" in the background (1022B_0069)</p>	<p>Photo 28: View to the northwest across new Haerses Road/Wisemans Ferry Road intersection (1022B_0072)</p>
	
<p>Photo 29: Right-turning land (from Cattai) at the new intersection (1022B_0075)</p>	<p>Photo 30: View to the northeast (towards Maroota) at the new intersection (1022B_0073)</p>

Appendix 6

Status of Implementation of 2019 Audit Response Actions

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

Table A6.1
Status of Implementation of 2019 Audit Response Actions

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ID	2019 IEA Comments and Recommendations / Suggested Improvements	Compliance Classification	Proposed Action(s) and Timeframe	2022 IEA Status Review
HR R1/19	<p>Ensure that all non-compliances or exceedances are reported in accordance with the relevant requirements and timeframes specified in the conditions of both DA 165-7-2005 and EPL 12513.</p> <p><i>Dust exceedances were reported to EPA but not to DPE. Additionally, non-compliances were reported as part of the Annual Review but not reported to DPE within the required 7 day timeframe.</i></p>	Non-compliance	<p>Proposed Action:</p> <p>Non-compliances or exceedances will be reported in accordance with the relevant requirements and timeframes specified in the conditions of both DA 165-7-2005 and EPL 12513.</p> <p>Implementation Timeframe:</p> <p>From the point this document is submitted.</p>	<p>No non-compliances were recorded during the audit period.</p> <p>Incidents (e.g. exceedances of PM₁₀ and deposited dust criteria) were appropriately notified and investigated during the audit period.</p>
HR R2/19	<p>Include details of VENM/ENM receipt at the Quarry in Annual Reviews, including date, time and quantity of material received.</p> <p><i>Schedule 2 Condition 10(b) of DA 165-7-2005 requires a copy of the VENM/ENM records to be included with the Annual Review. VENM importation commenced in 2019 with a total volume reported but not all required records.</i></p>	Non-compliance	<p>Proposed Action:</p> <p>The VENM/ENM Register which records the date, time of tipping and quantity of material received will be included in future Annual Reviews.</p> <p>Implementation Timeframe:</p> <p>Immediate – next Annual Review to be submitted by 30 September 2020.</p>	<p>Copies of the Waste and ENM/VENM Register were included in Annual Reviews during the audit period.</p>
HR R3/19	<p>Include in the Biodiversity and Rehabilitation Management Plan a description of the short-, medium- and long-term measures to be implemented to manage remnant vegetation and habitat on site, including within the Biodiversity Offset Area, and to ensure compliance with the rehabilitation objectives and progressive rehabilitation obligations required under DA 165-7 2005 Mod 2.</p> <p><i>Section 5.4 of the Biodiversity and Rehabilitation Management Plan notes that the required information is outlined in the approved Biobanking Agreement. To ensure compliance with the development approval, this information must be included in the Biodiversity and Rehabilitation Management Plan either as a summary or by appending the Biobanking Agreement to the Plan.</i></p>	Non-compliance	<p>Proposed Action:</p> <p>The approved Biobanking Agreements for the 1) Haerses Road and 2) Porters Road Biodiversity Offsets will be referenced and appended to the Biodiversity and Rehabilitation Management Plan (BRMP).</p> <p>Implementation Timeframe:</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>	<p>Copies of the biobanking agreements have been included as Appendix 5 of the BRMP.</p>

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Status of Implementation of 2019 Audit Response Actions

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ID	2019 IEA Comments and Recommendations / Suggested Improvements	Compliance Classification	Proposed Action(s) and Timeframe	2022 IEA Status Review
HR R4/19	<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 and water level trigger values specified by the Surface Water Management Plan are restrictive and inadequately reflect natural variation in water levels and water quality. Default water quality guideline values should be utilised until appropriate site-specific trigger values (20th and 80th percentile values) can be derived from a minimum of two years of monthly data.</i></p>	Non-compliance	<p>Proposed Action:</p> <p>The Soil and Water Management Plan (SWMP) will be revised and updated to rationalise the water level and water quality trigger values.</p> <p>Implementation Timeframe:</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 SWMP has been updated to include rationalised water quality criteria and trigger levels (20 th , 50 th and 80 th percentile values) based on historical monitoring results.
HR R5/19	<p>Ensure that all components of the Environmental Management Strategy for the Quarry are distributed to the relevant stakeholders following approval.</p> <p><i>The entire Environmental Management Strategy, or individual sections following revision, should be provided to the relevant stakeholders including the Department of Planning, Infrastructure and Environment, Environment Protection Agency, Biodiversity Conservation Division, Heritage NSW under the Department of Premier and Cabinet, Roads and Maritime Services, the Hills Shire Council and the Community Consultative Committee.</i></p>	Non-compliance	<p>Proposed Action:</p> <p>Future approved Environmental Management Strategy (EMS) and Management Plans will be distributed to the relevant stakeholders and government agencies.</p> <p>Implementation Timeframe:</p> <p>Immediately post approval of revised EMS and Management Plans.</p>	<p>Evidence of consultation during the preparation of the EMS and Management Plans has been included as an appendix in the relevant documents.</p> <p>Reviews and revisions of the EMS and Management Plans were notified to the relevant stakeholders during the audit period.</p>

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ID	2019 IEA Comments and Recommendations / Suggested Improvements	Compliance Classification	Proposed Action(s) and Timeframe	2022 IEA Status Review
HR R6/19	<p>Include a monthly check of induction records as an item on the Site Condition Checklist in accordance with Section 11 of the Environmental Management Strategy.</p> <p><i>A documented check of the induction records was not available.</i></p>	Non-compliance	<p>Proposed Action:</p> <p>The Monthly Site Condition Checklist will be revised to include an inspection/check of the induction records.</p> <p>Implementation Timeframe:</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 requirement to inspect / check induction records has been included on the Monthly Site Condition Checklist (Appendix 12 of the EMS).
HR R7/19	<p>Develop and implement a sediment basin inspection form for use during the inspection of sediment basins following storm events.</p> <p><i>The sediment basin inspection form should be used to record the date and time of inspection, meteorological data relevant to the preceding storm event (e.g. rainfall over the relevant period), comments on the visual quality of water in the sediment basin, and comments on the stability of the sediment basin and associated drainage structures.</i></p>	Non-compliance	<p>Proposed Action:</p> <p>Develop a sediment basin inspection form to be used during the inspection of sediment basins following storm events.</p> <p>The form to include provisions to record the date and time of inspection, meteorological data relevant to the preceding storm event (e.g. rainfall over the specific period), comments on the visual water quality in the basin, and where applicable, record comments on the stability of the basin and associated drainage structures</p> <p>Implementation Timeframe:</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>	A Sediment Basin Inspection Form has been prepared and is included as Appendix 5 of the SWMP.

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ID	2019 IEA Comments and Recommendations / Suggested Improvements	Compliance Classification	Proposed Action(s) and Timeframe	2022 IEA Status Review
HR R8/19	<p>Maintain a record of monthly water cart fills, monthly water transfer volumes and monthly clean water import volumes.</p> <p><i>These records were not maintained during the audit period in accordance with Section 4.5 of the Soil and Water Management Plan.</i></p>	Non-compliance	<p>Proposed Action: A record will be kept for:</p> <ul style="list-style-type: none"> monthly watercart fills monthly water transfer volumes monthly clean water import volumes, <p>Implementation Timeframe:</p> <ul style="list-style-type: none"> monthly watercart fills – logbook to be utilised immediately. <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. The following changes will be made:</p> <ul style="list-style-type: none"> monthly water transfer volumes – to be included in the site monthly checklist monthly clean water import volumes – to be included in the site monthly checklist 	An internal Watercart Despatch Sheet has been prepared and includes water cart despatch and water volume fields.
HR R9/19	<p>Commence 'receiving waters' quality monitoring and continue monthly monitoring for a minimum of two years to establish baseline site-specific trigger values in accordance with Section 5.1.2.1 of the Soil and Water Management Plan (ensuring records of no flows are also maintained). Alternatively, update the Soil and Water Management Plan to specify alternate monitoring locations and/or approach to determining baseline conditions.</p> <p><i>As receiving water quality monitoring locations represent ephemeral drainage lines, monthly monitoring must be undertaken for the equivalent of at least two years. However, it is advised that, since the requirement to commence monitoring, no flows have been present during monitoring.</i></p>	Non-compliance	<p>Proposed Action: After a storm event, the nominated sampling locations for water quality in the ephemeral drainage lines will be inspected and water sample obtained where possible.</p> <p>Implementation Timeframe: Immediate</p>	Receiving water monitoring locations (SW1 and SW2) were monitored during the audit period where possible. Monitoring results were presented in the Annual Reviews during the audit period.

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ID	2019 IEA Comments and Recommendations / Suggested Improvements	Compliance Classification	Proposed Action(s) and Timeframe	2022 IEA Status Review
HR R10/19	Ensure that inspections of water management dam walls are undertaken biennially by a suitably qualified engineer in accordance with Section 5.1.2.4 of the Soil and Water Management Plan. <i>Section 5.1.2.4 of the Soil and Water Management Plan requires that all water management dam walls be inspected by a suitably qualified engineer every 2 years. These inspections should be undertaken or the management plan amended.</i>	Non-compliance	Proposed Action: A suitably qualified engineer will be engaged to inspect the water management dam walls biennially. The report will be included in the Annual Review. Implementation Timeframe: Inspection by a suitably qualified engineer to be undertaken by 31 December 2020.	The SWMP has been amended and now notes that all existing and proposed dams at the Quarry site are cut into sandstone or in-situ material, with no embankment construction or structural fill required. As such, structural assessment of the dams by a qualified engineer is no longer required.
HR R11/19	Ensure that the Annual Reviews include all relevant aspects committed to be reported to within the Soil and Water Management Plan, including comparisons of receiving water quality results against relevant trigger values, sediment dam spill frequencies, clean water imports compared to the predicted water balance, etc. <i>The Annual Reviews did not include all information committed to within the management plans.</i>	Non-compliance	Proposed Action: Future Annual Reviews will include all information committed to be reported within the SWMP. Implementation Timeframe: Immediate – next Annual Review to be submitted by 30 September 2020.	Annual Reviews during the audit period include reporting of all necessary monitoring data and analysis of monitoring results against relevant criteria and historical trends.
HR R12/19	Ensure that the Annual Reviews report on water take in accordance with the Annual Review Guideline (DPE, 2015 – or latest version). <i>The Annual Reviews did not include the details of water take under the Water Access Licences.</i>	Non-compliance	Proposed Action: Water take volumes from Water Access Licences will be reported in future Annual Reviews Implementation Timeframe: Immediate – next Annual Review to be submitted by 30 September 2020.	Annual Reviews during the audit period reported water take under the WALs for the Quarry.
HR R13/19	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. <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>	Non-compliance	Proposed Action: Water monitoring results will be reviewed against the relevant trigger and criteria values as soon as possible following receipt of the results. Implement measures outlined in the trigger response plan where applicable. Implementation Timeframe: From the point this document is submitted.	Water monitoring results were reviewed against relevant quality criteria and trigger values during the audit period.

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ID	2019 IEA Comments and Recommendations / Suggested Improvements	Compliance Classification	Proposed Action(s) and Timeframe	2022 IEA Status Review
HR R14/19	<p>Ensure that monthly and annual summaries of truck movements (number of trucks, arrival time and despatch time) and 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>Proposed Action:</p> <p>The six monthly truck movement summaries and production summaries will be published on Dixon Sand website every six months.</p> <p>Implementation Timeframe:</p> <p>From the point this document is submitted.</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>
HR R15/19	<p>Ensure that pre-clearing surveys, including surveys by a qualified ecologist no more than two weeks prior to felling and surveys by the Environmental Officer within 24 hours of clearing, are undertaken prior to any vegetation clearing.</p> <p><i>Pre-clearing surveys were not undertaken at the Quarry prior to, albeit minor, vegetation clearing associated with the establishment of access tracks, monitoring bores, and the installation of fencing.</i></p>	Non-compliance	<p>Proposed Action:</p> <p>Ensure pre-clearing surveys are conducted prior to any vegetation clearing. Ensure holdpoints outlined in the current vegetation clearing and tree felling procedures are followed.</p> <p>Implementation Timeframe:</p> <p>Immediate - from the point this document is submitted.</p>	<p>Pre-clearing surveys and multi-stage habitat tree felling procedures were implemented during the audit period and instances of clearing in the MOD 1 extraction area are noted in the 2021/2022 Annual Review.</p>
HR R16/19	<p>Ensure that topsoil stockpiles are constructed in accordance with the topsoil management measures outlined in the Biodiversity and Rehabilitation Management Plan.</p> <p><i>Topsoil stockpile management measures include the location of stockpiles away from quarrying, traffic affected areas and watercourses, positioning within closed water management areas and within the Quarry disturbance footprint, positioning on level or gently sloping ground, establishment in windrows to a height no greater than 3m, and the establishment of silt fences at the base of stockpiles. Topsoil stockpiles to be kept longer than 3 months must be sown with a vegetation cover, with weed growth monitored on a monthly basis and controlled appropriately.</i></p>	Non-compliance	<p>Proposed Action:</p> <p>A review of the current topsoil stockpile locations will be undertaken and where required, the stockpiles will be rectified and/or establish a windrow to a height no greater than 3 metres and silt fences installed at the base on the downslope side.</p> <p>Advice from a qualified ecologist will be sought regarding the best approach to preserve the native seedbank within topsoil stockpiles whilst limiting dust generation.</p> <p>Implementation Timeframe:</p> <p>31 March 2020</p>	<p>Topsoil stockpiles observed during the 2019 IEA site inspection had been rectified and constructed in accordance with the topsoil management measures outlined in the BRMP.</p> <p>One new topsoil stockpile was observed during the 2022 IEA site inspection to have been placed on an area which had not been appropriately prepared (i.e. topsoil placed on existing surface topsoil layer).</p>

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ID	2019 IEA Comments and Recommendations / Suggested Improvements	Compliance Classification	Proposed Action(s) and Timeframe	2022 IEA Status Review
HR R17/19	<p>Distribute copies of the approved Bushfire Management Plan, or summaries of the most relevant sections including bushfire control measures and response procedures, to key stakeholders including relevant land managers and neighbours.</p> <p><i>It is understood that the Bushfire Management Plan has been distributed to Quarry personnel and consultation was undertaken with Council and RFS. However, Section 5.2.5 of the Biodiversity and Rehabilitation Management Plan also requires the bushfire management measures to be communicated to land managers and neighbours. The Bushfire Management Plan may inform bushfire management strategies employed by local landholders and feedback from local landholders and land managers may inform future updates to the Plan.</i></p>	Non-compliance	<p>Proposed Action: The Bushfire Management Plan (BMP) will be published on Dixon Sand website. Section 5.2.5 of the Biodiversity and Rehabilitation Management Plan will be revised to state that details of the bushfire management measures are contained in the BMP which is available for public access on Dixon Sand website (note that the BMP is currently already published on the website).</p> <p>Implementation Timeframe: 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 Bushfire Management Plan (parts 1 and 2) is available on the Dixon Sand website.
HR R18/19	<p>Ensure that, when a verified complaint or non-compliance with the Driver's 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 5 of 6 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>Proposed Action: 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>Implementation Timeframe: 31 March 2020.</p>	<p>Signatories of the Maroota Local Traffic Management Policy met during the audit period and agreed upon a procedure for verifying complaints and non-compliances.</p> <p>This procedure was implemented following receipt of a traffic-related complaint at the Old Northern Road Quarry.</p>

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ID	2019 IEA Comments and Recommendations / Suggested Improvements	Compliance Classification	Proposed Action(s) and Timeframe	2022 IEA Status Review
HR R19/19	<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>Proposed Action:</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>Implementation Timeframe:</p> <p>Immediate</p>	Following the one traffic-related complaint received at the Quarry during the audit period, the truck driver, truck driver's company, and other truck driver associated with the Quarry were notified of the complaint and reminded of their responsibilities under the Driver's Code of Conduct.
HR R20/19	<p>Ensure that the fuel drum for the water pump is stored in a suitably bunded manner, remove the drum, or replace the pump with an electric pump.</p> <p><i>A 205L drum of fuel was observed adjacent the water pump located adjacent "Work 1 Dam". Whilst located within a covered area, given the location and volume of the drum, appropriate bunding is considered necessary to achieve compliance with Condition 3(43) of DA 165-07-2005.</i></p>	Non-compliance	<p>Proposed Action:</p> <p>The fuel drum located adjacent the water pump at "Work Dam 1" will be removed or bunded in a suitable manner.</p> <p>Implementation Timeframe:</p> <p>Immediate</p>	
HR I1/19	<p>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.</p> <p><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></p>	Suggested Improvement	<p>Proposed Action:</p> <p>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>Implementation Timeframe:</p> <p>30 June 2020</p>	Section 2.4 of the EMS lists the various component documents which form the EMS for the Quarry.

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ID	2019 IEA Comments and Recommendations / Suggested Improvements	Compliance Classification	Proposed Action(s) and Timeframe	2022 IEA Status Review
HR I2/19	<p>Update the Traffic Management Plan to reflect the current School Zone times and alert all truck drivers to this change in times.</p> <p><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></p>	Suggested Improvement	<p>Proposed Action:</p> <p>The TMP will be updated to reflect the following school zone times:</p> <ul style="list-style-type: none"> • 8:00am to 9:30am, and • 2:30pm to 4:00pm <p>Implementation Timeframe:</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 TMP has been updated to reflect the correct school zone times.
HR I3/19	<p>Include an additional column in the production summaries presented in the Annual Reviews which summarises the total extracted material in comparison to the approved limit of 250,000tpa.</p> <p><i>Whilst total extraction can be inferred from the information presented within the Annual Reviews, it would be preferable to explicitly confirm the amount extracted. This is particularly important when the amount of material exported from the Quarry nears the maximum limits given that additional material could possibly be extracted and stockpiled on site.</i></p>	Suggested Improvement	<p>Proposed Action:</p> <p>A summary of the total extraction will be included in the Annual Review.</p> <p>Implementation Timeframe:</p> <p>To be reported in the next Annual Review which is due by 30 September 2020.</p>	

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ID	2019 IEA Comments and Recommendations / Suggested Improvements	Compliance Classification	Proposed Action(s) and Timeframe	2022 IEA Status Review
HR I4/19	<p>Include an unanticipated Aboriginal heritage find procedure within the Environmental Management Strategy (or separate document / attachment).</p> <p><i>Condition 2(29) of DA 165-07-2005 outlines actions required in the event that an object of suspected Aboriginal origin is identified. However, there is currently no procedure or other prompt for training and/or implementation in the event that a find occurs.</i></p>	Suggested Improvement	<p>Proposed Action:</p> <p>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 165-7-2005 Schedule 2 Condition 29.</p> <p>Toolbox training for Quarry operators will include the above new procedure once the revised EMS is approved by the DPIE.</p> <p>Implementation Timeframe:</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>	An Unexpected Archaeological Finds Procedure has been included as Section 9.2 of the EMS.
HR I5/19	<p>Review all Section cross references within the Biodiversity and Rehabilitation Management Plan and update as necessary.</p> <p><i>Numerous incorrect Section cross references were identified within the Biodiversity and Rehabilitation Management Plan, including cross references to incorrect sections or sections which do not exist.</i></p>	Suggested Improvement	<p>Proposed Action:</p> <p>A review of the Biodiversity and Rehabilitation Management Plan will be undertaken to rectify any errors in cross referencing.</p> <p>Implementation Timeframe:</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>	Cross-referencing errors have been rectified in the approved version of the BRMP.

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ID	2019 IEA Comments and Recommendations / Suggested Improvements	Compliance Classification	Proposed Action(s) and Timeframe	2022 IEA Status Review
HR I6/19	<p>Ensure that the SWMP includes specific reference to the need for the development of specific measures for road and intersection works and noise bund construction as per Condition O4.2 of EPL 12513. Alternatively, include the specific measures within the SWMP.</p> <p><i>Whilst road and intersection works and noise bund construction are not currently applicable, to ensure that inclusion of relevant measures related to these aspects, reference to these aspects should be included or, preferably the measures included now.</i></p>	Suggested Improvement	<p>Proposed Action:</p> <p>The SWMP will be revised to include a reference to the requirement for specific control measures to be developed for road and intersection works and noise bund construction.</p> <p>Implementation Timeframe:</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 SWMP has been updated to include specific reference to the need for the development of specific measures for road and intersection works and noise bund construction
HR I7/19	<p>Consider removing from Section 7.1 of the Noise Management Plan the commitment to supply a summary of noise monitoring data with the EPL Annual Return.</p> <p><i>It is not a requirement of the EPL to include a summary of noise monitoring with the Annual Returns.</i></p>	Suggested Improvement	<p>Proposed Action:</p> <p>Section 7.1 of the Noise Management Plan (NMP) will be revised and a commitment to provide a summary of noise monitoring data with the EPL Annual Return will be removed as this is not a requirement of the EPL.</p> <p>Implementation Timeframe:</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 7.1 of the NMP has been revised to remove the unnecessary commitment to supply noise monitoring data.

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ID	2019 IEA Comments and Recommendations / Suggested Improvements	Compliance Classification	Proposed Action(s) and Timeframe	2022 IEA Status Review
HR I8/19	<p>Ensure that the annual review of the Maximum Extraction Depth Map as required by Schedule 2 Condition 22 of DA 165-7-2005 is outlined explicitly within the respective Annual Review including where it has been assessed no update to the map is required.</p> <p><i>The 2018 and 2019 Annual Review notes that there have been no impacts and states that the Maximum Extraction Depth Map will require review following the 2019 Independent Environmental Audit. It would be preferable to confirm that the map has been reviewed as part of the Annual Review process and, where no change is considered necessary, explicitly state the existing map remains adequate.</i></p>	Suggested Improvement	<p>Proposed Action:</p> <p>Ensure confirmation that the Maximum Extraction Depth Map has been reviewed is provided in the Annual Review and where no change is required, provide a statement that the existing MEDP remains adequate.</p> <p>Implementation Timeframe:</p> <p>Immediate – next Annual Review to be submitted by 30 September 2020.</p>	Annual Reviews during the audit period confirm whether the Maximum Extraction Depth Map was reviewed and/or updated during each Annual Review period.
HR I9/19	<p>Update Section 8.3 of the Environmental Management Strategy to reflect the current EPA requirements for submitting EPL Annual Returns, i.e. via eConnect.</p> <p><i>Section 8.3 of the EMS refers to EPA providing a copy of the Annual Return form and that this must be submitted via registered post. This is no longer undertaken and registered post is no longer an accepted submission option.</i></p>	Suggested Improvement	<p>Proposed Action:</p> <p>Section 8.3 of the Environmental Management Strategy will be updated to specify that EPL Annual Returns are submitted via eConnect.</p> <p>Implementation Timeframe:</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 8.3 of the EMS has been updated to note that Annual Returns are submitted via the eConnect Portal.

Table A6.1 (Cont'd)
Status of Implementation of 2019 Audit Response Actions

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ID	2019 IEA Comments and Recommendations / Suggested Improvements	Compliance Classification	Proposed Action(s) and Timeframe	2022 IEA Status Review
HR I10/19	<p>Rationalise the water level and water quality trigger values nominated in the Surface Water Management Plan using either 'standard' guideline values or values developed based upon the broader locality / region.</p> <p><i>In some instances, the interim surface water quality triggers and groundwater level and quality triggers provide a very narrow margin and may potentially lead to regular exceedances and unnecessary action response. For example, the upper and lower groundwater level trigger values for BH5 are 178.5mAHD and 178.6mAHD respectively.</i></p>	Suggested Improvement	<p>Proposed Action:</p> <p>The water level and water quality trigger values nominated in the SWMP will be rationalised appropriately.</p> <p>Implementation Timeframe:</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>	Water level and water quality trigger levels identified in the SWMP have been rationalised based on historic monitoring data for the Quarry site.
HR I11/19	<p>Review and update the Soil and Water Management Plan taking into consideration the following.</p> <ul style="list-style-type: none"> Review and update of the water level and quality trigger levels (see Recommendation HR I10/19). Rectify the typographical error for the 80th percentile groundwater pH levels in Table 2.5. Include level 4 headings in the table of contents to assist with document. <p><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></p>	Suggested Improvement	<p>Proposed Action:</p> <p>The SWMP will be reviewed particularly the following:</p> <ul style="list-style-type: none"> Review and update of the water level and quality trigger levels (as outlined in Recommendation HR I10/19). Rectify the typographical error for the 80th percentile groundwater pH levels in Table 2.5. Include level 4 headings in the table of contents to assist with document where appropriate. <p>Implementation Timeframe:</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>	<p>Water level and water quality trigger levels identified in the SWMP have been rationalised based on historic monitoring data for the Quarry site.</p> <p>The specified typographical error in Table 2.5 has been rectified.</p> <p>Level 4 headings have been included in the SWMP table of contents.</p>

Table A6.1 (Cont'd)
Status of Implementation of 2019 Audit Response Actions

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ID	2019 IEA Comments and Recommendations / Suggested Improvements	Compliance Classification	Proposed Action(s) and Timeframe	2022 IEA Status Review
HR I12/19	<p>Continue to consult with the Department of Industry – Water in order to seek formal approval of the aquifer pumping test works undertaken at the Quarry.</p> <p><i>Given the potential for this matter to delay the commencement of extraction within the Mod 1 extraction area, the satisfaction of Dol with the pumping tests required DA 165-7-2005 Condition 3(16e) should be actively followed up.</i></p>	Suggested Improvement	<p>Proposed Action:</p> <p>The Department of Industry – Water (Dol-Water) provided acknowledgement on 22/11/2019 regarding the installation of additional monitoring wells and water level data loggers and pumping test carried out under Condition 16 of Schedule 3 of DA 165-7-2005. The Dol-Water requests:</p> <ol style="list-style-type: none"> 1. continued inclusion of monitoring of the groundwater levels in these monitoring bores as part of the on-going monitoring programme. 2. submission of Form A's for the monitoring bores to WaterNSW, if this has not been done. <p>Dixon Sand submitted Form A's for completed works for the abovementioned monitoring bores to water.gds@dpi.nsw.gov.au on 29/11/2019.</p> <p>Implementation Timeframe:</p> <p>No further action required in addition to continual of monitoring of the groundwater levels in the abovementioned bores as part of the on-going monitoring programme.</p>	<p>Continued monitoring of groundwater bores as part of the Groundwater Monitoring Program was undertaken during the audit period, to the satisfaction of DPI Water.</p> <p>DPIE Water and NRAR indicated satisfaction with the aquifer pumping tests on 26 November 2019.</p>
HR I13/19	<p>Undertake a documented formal review of the various requirements of the Soil and Water Management Plan that are to be completed prior to commencement of extraction within the Mod 1 extraction area or that will be triggered by the commencement of extraction.</p> <p><i>There's a range of measures that are required to be established prior to the commencement of extraction within the Mod 1 extraction area and a range of management actions that are not triggered until extraction commences. A formal review of these matters will assist in ensuring compliance is maintained with the relevant commitments.</i></p>	Suggested Improvement	<p>Proposed Action:</p> <p>Formal confirmation from the DPIE has been received on 02/12/2019 stating that the pre-commencement requirements for works within extraction cells 1A and 2A of the Mod 1 extraction area have been met.</p> <p>A review of the requirements in the SWMP to be completed prior to and post commencement of extraction within the Mod 1 extraction area will be undertaken and documented.</p> <p>Implementation Timeframe:</p> <p>Prior to extraction of cells 1A and 2A.</p>	<p>DPIE acknowledged the fulfillment of pre-commencement requirements prior to the commencement of extraction in cells 1A and 1B of the Mod 1 extraction area.</p>

Table A6.1 (Cont'd)
Status of Implementation of 2019 Audit Response Actions

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ID	2019 IEA Comments and Recommendations / Suggested Improvements	Compliance Classification	Proposed Action(s) and Timeframe	2022 IEA Status Review
HR I14/19	<p>Review and update the Soil and Water Management Plan to clearly specify what measures apply to what areas / aspects of the operation.</p> <p><i>Section 3.1 of the Soil and Water Management Plan outlines the existing and future operations, however, it is often not clear in the following subsections what measures are applicable to the existing site or which are applicable to future activities or locations.</i></p>	Suggested Improvement	<p>Proposed Action:</p> <p>The SWMP will be reviewed and revised to clearly specify what measures apply to what areas/aspects of the quarry operation.</p> <p>Implementation Timeframe:</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 SWMP has been revised and updated to clearly indicate the required timing of relevant management measures.
HR I15/19	<p>Include in the logbook records the flow volume at Cattai Creek at the Cattai Ridge Road gauge [No. 2122951] for the day prior to and the day of any water take from WAL 25941 and WAL25956.</p> <p><i>Condition MW0078-00005 of WAL 25941 and WAL 25956 requires that the flow rate at the Cattai Ridge Road be >3ML/day. To ensure compliance with this requirement, it is suggested that the recorded flows be included in the logbook .</i></p>	Suggested Improvement	<p>Proposed Action:</p> <p>Dixon Sand was unable to locate any online monitoring data for the specific location nominated on the WAL which is located approximately 30 minutes from the quarry.</p> <p>Dixon Sand will liaise with WaterNSW regarding the logistics of complying with Condition MW0078-00005 of WAL 25941 and WAL 25956. An application to modify the condition may be required.</p> <p>Implementation Timeframe:</p> <p>Immediate</p>	WaterNSW has confirmed that WAL 25941 and WAL 25956 are attached to dams on a first order watercourse. Under the <i>Water Management Act 2000</i> , dams on first order watercourses are deemed to be 'runoff harvesting dams'. The flow condition therefore does not apply.

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 and Date
HR11-2019	Hearses Road EIS 2005
HR12-2019	Hearses Road Modification 1 2016
HR13-2019	Hearses Road Modification 2 2018
HR14-2022	Hearses Road Modification 5 Consolidated Conditions of Consent
HR19-2019	WAL25956
HR20-2019	WAL25941
HR21-2019	Works Approval 10CA105044
HR22-2019	Works Approval 10CA104191
HR25-2019	Dol Response to submission of bore installation and pumping test details.
HR26-2019	Submission of bore installation and pumping test details to Dol.
HR28-2019	Dixon Sands letter to EPA describing EPL application.
HR32-2019	Boundary survey plan submission.
HR34-2019	EMS SWMP NMP BRMP AQMP DPE Submission 20180718
HR35-2019	TMP DPE Submission 20180702
HR36-2019	Bond Lodgement Date with DPE
HR51-2019	Re-appointment of CCC by DPE
HR61-2022	Annual Review 2019/2020 Main Text and Appendices A – F
HR62-2022	Annual Review 2019/2020 Appendices G - N
HR63-2022	Annual Review 2020/2021
HR64-2022	Annual Review 2021/2022
HR65-2022	2019 IEA Audit Response and Proposed Actions
HR66-2022	Hearses Road Modification 3 Consolidated Conditions of Consent
HR67-2022	Hearses Road Modification 5 Consolidated Conditions of Consent
HR68-2022	HR Modification 3 SoEE
HR69-2022	HR Modification 4 SoEE
HR70-2022	HR Modification 5 Modification Report
HR71-2022	HR EMS
HR72-2022	HR Plan Preparation Checklist and Certification
HR74-2022	HR PIRMP
HR75-2022	HR Environmental Monitoring Locations
HR76-2022	HR Air Quality Management Plan
HR77-2022	HR Noise Management Plan
HR78-2022	HR Soil and Water Management Plan
HR79-2022	HR Traffic Management Plan
HR80-2022	HR Biodiversity and Rehabilitation Management Plan
HR81-2022	HR BRMP App 5 Biobanking Agreement
HR82-2022	HR Construction Noise Management Plan
HR83-2022	HR Site Condition Checklist
HR84-2022	HR Complaints Register Form
HR85-2022	HR Site Induction for Drivers
HR86-2022	HR Bushfire Management Plan Pt 1
HR87-2022	HR Bushfire Management Plan Pt 2
HR91-2022	EMS Submission to DPE (MOD 5, Version 29 September 2022)
HR92-2022	EMS Submission to DPE (MOD 3 & MOD 4, version 29 November 2021)
HR93-2022	Construction Certificate – Concrete Slab
HR94-2022	Improvement Notice

Table A7-1 (Cont'd)
Principal Audit Documentation Reviewed

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Ref No.	Document Name and Date
HR95-2022	DRG Mineral Return 2018/2019
HR96-2022	DRG Mineral Return 2019/2020
HR97-2022	DRG Mineral Return 2020/2021
HR98-2022	AQMP (version November 2021) Submission Email
HR99-2022	AQMP (version November 2021) (Unapproved)
HR100-2022	SWMP (version November 2021) (Unapproved)
HR101-2022	SWMP Appointment of Experts
HR102-2022	Intersection Upgrade Design
HR103-2022	Intersection Upgrade TMP
HR104-2022	TMP (version November 2021) (Unapproved)
HR105-2022	HR BOA Biodiversity Credit Offset Advice
HR106-2022	BRUM (version November 2021) (Unapproved)
HR107-2022	Biodiversity and Rehabilitation Bond Review – BRUM Update
HR108-2022	Biodiversity and Rehabilitation Bond Review – 2019 IEA
HR109-2022	EPA Close Out of PM10 Incident
HR110-2022	DPIE Notification of EMS Plan Review – MOD 2
HR111-2022	DPIE Notification of EMS Plan Review – 2019 IEA
HR112-2022	DPIE Notification of EMS Plan Review – MOD 3 & 4
HR113-2022	DPIE Notification of EMS Plan Review – MOD 5
HR114-2022	DPIE Satisfaction with 2019 IEA
HR115-2022	Annual Return 2018/2019
HR116-2022	Annual Return 2019/2020
HR117-2022	Annual Return 2020/2021
HR118-2022	Annual Return 2021/2022
HR119-2022	EPA RFR re. PM10 Exceedance
HR120-2022	Dixon Sand Response to EPA RFI