

Hanson – Bass Point Quarry

Independent Environmental Audit 2023

Prepared for:

Hanson
Heidelberg Cement Group
01 December 2023

PREPARED BY:



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BASIS OF REPORT

This report has been prepared by Integrated Environmental Management Australia (IEMA) with all reasonable skill, care, and diligence, and taking account of the timescale and resources allocated to it by agreement the Client. Information reported herein is based on the interpretation of data collected, which has been accepted in good faith as being accurate and valid.

This report is for the exclusive use of the Client. No warranties or guarantees are expressed or should be inferred by any third parties. This report may not be relied upon by other parties without written consent from IEMA.

IEMA disclaims any responsibility to the Client and others in respect of any matters outside the agreed scope of the work.

DOCUMENT CONTROL

Reference	Date	Prepared	Authorised
V1_Draft	17/11/2023	Simon Kirgis	Chris Jones
V2_Final	01/12/2023	Simon Kirgis	Chris Jones

EXECUTIVE SUMMARY

Integrated Environmental Management Australia (IEMA) was engaged by Hanson Construction Materials Pty Ltd (Hanson) to conduct an Independent Environmental Audit (IEA) of Bass Point Quarry (BPQ). Located within the Shellharbour Local Government Area, 100km south of Sydney, BPQ lies between the coastal towns of Shellharbour and Kiama on the South Coast of NSW.

The site encompasses a regionally significant basalt resource which is extracted and processed on site into a range of construction aggregate products such as Road Base and Fill. Products are also supplied to concrete batching plants for use in the construction industry.

BPQ is approved to operate 24 hours a day, 7 days a week – including drilling activities, production and materials processing, and materials transportation of up to 3,000,000 tonnes per year via the approved transport route using truck and dog, semi-trailers, and B-Double trucks. An additional 1,000,000 tonnes per year is permitted for transport via ship.

This IEA has been prepared to satisfy the requirements of the following approvals and guidelines:

- MP 08_0143;
- EPL 2193; and
- *Independent Audit Post Approval Requirements* (DPE 2020).

The IEA covers the period from 1 September 2020 to 6 September 2023. The Department of Planning and Environment (DPE) endorsed the following IEA team in a letter dated 21/06/2023:

- Chris Jones as Lead Auditor; and
- Simon Kirgis as Auditor.

The audit team visited the site from 5-6 September 2023 to complete a site inspection and verify field components of the audit.

The audit reviewed the following documents:

- Statutory documents and Licences;
- Annual Reviews and Annual Returns during audit period;
- Site management plans;
- Monitoring data; and
- Incident and non-compliance reports.

A summary of the audit outcomes is provided in **Table A**.

Table A – Audit Compliance Summary

Compliance Status	MP 08_0143	EPL 2193	SoC	Total
Compliant	50	35	14	99
Non-Compliant	15	5	1	21
Not triggered	17	14	10	41
Total	82	54	25	161

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1 INTRODUCTION

1.1 Background

The Bass Point Quarry (BPQ) is owned and operated by Hanson Construction Materials Pty Ltd (Hanson) and is located within the Shellharbour Local Government Area (LGA), 100 km south of Sydney, NSW between the coastal towns of Shellharbour and Kiama.

Hanson acquired Bass Point Quarry and commenced operations in 1966 and has continued since. Hanson was granted approval for the expansion of the quarry on 28 January 2014, which was subsequently modified in June 2017 (Modification 1), January 2019 (Modification 2) and November 2021 (Modification 4).

BPQ is located on the Bass Point Headland and is bordered by the Bass Point Reserve, Killalea Reserve, and the growing residential land release in Shell Cove. The site encompasses a regionally significant basalt resource which is extracted and processed on site into a range of construction aggregate products such as Road Base and Fill. Products are also supplied to concrete batching plants for use in the construction industry.

The Quarry operates under a range of regulatory approvals, notably the Project Approval MP 08_0143 (MP 08_0143) which was granted by the Department of Planning and Infrastructure (now Department of Planning and Environment; the Department) and Environment Protection Licence (EPL) 2193.

The Quarry is approved to operate 24 hours a day, 7 days a week – including drilling activities, production and materials processing, and materials transportation. Blasting is permitted between 8:00 am and 5:00 pm Monday to Friday (excluding Public Holidays). Construction activities are permitted between 07:00 am and 6:00 pm Monday to Friday, and 8:00 am to 1:00 pm Saturday (excluding Public Holidays).

The site currently directly employs approximately 115 people, plus approximately 30 subcontractors that assist with construction and ongoing operations. Products are supplied to local and regional customers in the Shellharbour LGA, as well as transported inter-regionally, predominantly to Wollongong and Sydney.

Other activities include:

- Development and use of an extraction area to extract hard rock using standard drill, blast, load, and haul techniques.
- Construction and use of processing plant to process the extracted hard rock material to produce a range of quarry products, including aggregates and road base, and stockpiling of the resulting products on site.
- Transportation of up to 3,000,000 tonnes per year of quarry products via the approved transport route using truck and dog, semi-trailers, and B-Double trucks. An additional 1,000,000 tonnes per year can be transported by ship, though not currently undertaken at the site.
- Construction of a range of bunds and mounds and establishment of native vegetation to provide visual screening for the quarry operations.

Figure 1 shows the regional locality of BPQ.

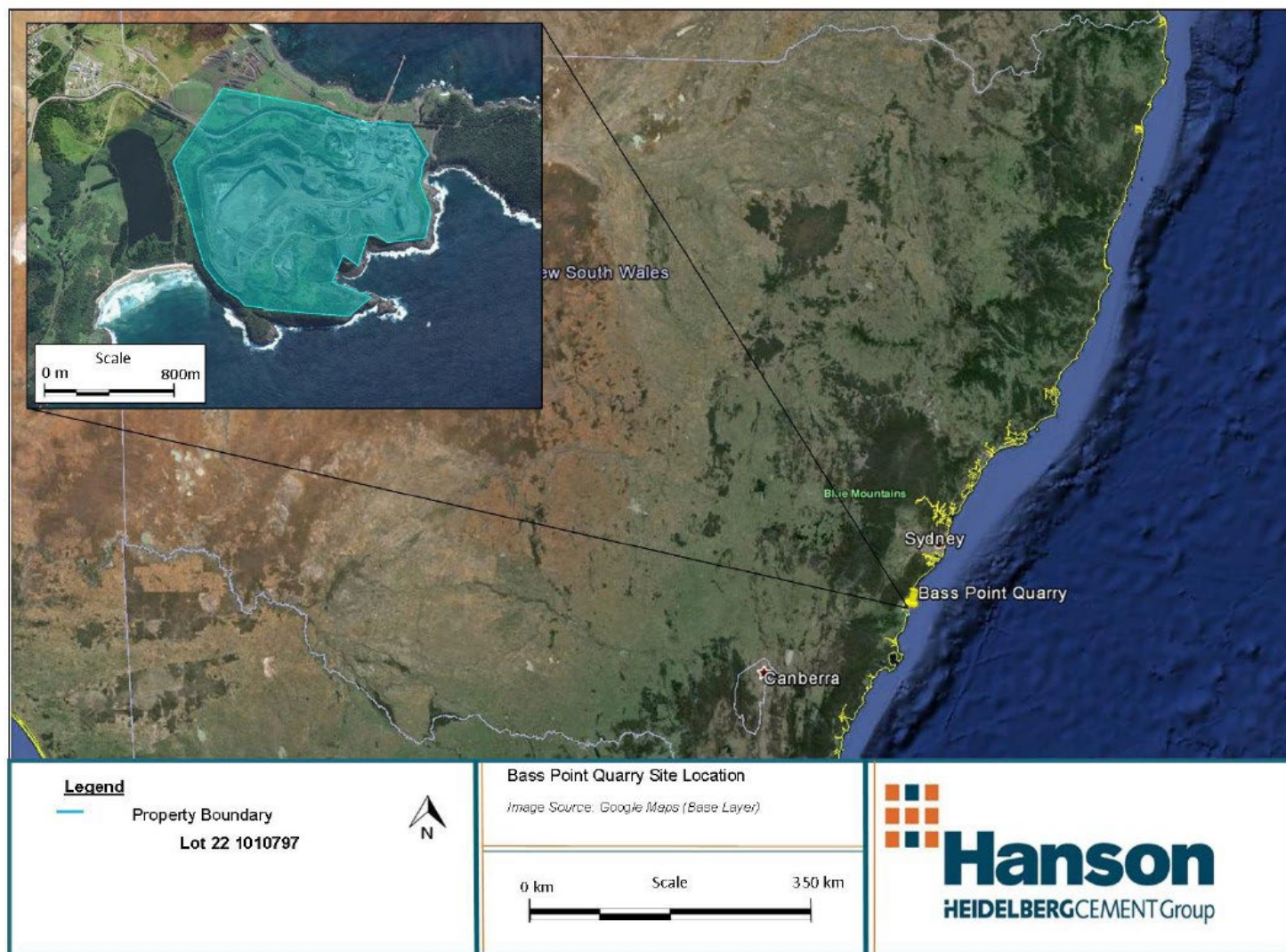


Figure 1 Regional Locality (Hanson, 2022)

1.2 Audit Team

The Department of Planning and Environment (DPE) endorsed the IEA team in a letter dated 21/06/2023 (refer **Appendix A**). The experience and qualifications of each auditor are provided in **Table 1** below.

Table 1 – Auditor Qualifications

Name and Position	Qualifications and Experience
Chris Jones Principal Environmental Consultant, IEMA Lead Auditor	B. Env. Sc & Management Exemplar Global Principal Auditor - Environmental Management Systems Auditor 17 years' environmental consultancy and industry experience. Key areas of experience include stakeholder consultation, project management, environmental auditing, rehabilitation and closure, environmental impact assessment, environmental inspections and reporting, environmental management systems and plans, subsidence management plans and extraction plans, site secondments and risk assessments.
Simon Kirgis Environmental Consultant, IEMA Assistant Auditor	B. Env. Sc & Management 2 years environmental consultancy and industry experience. Key areas of experience include stakeholder consultation, environmental reporting, project management, environmental systems, and management plans.
Elizza Hill Graduate Consultant, IEMA Assistant Auditor	B. Env. Sc & Management 1 year environmental consultancy and industry experience. Key areas of experience include stakeholder consultation, environmental reporting, and management plans

The main site contacts for this IEA are provided in **Table 2**. Other site personnel who contributed to the IEA are included in **Section 2.4**.

Table 2 – Key Site Contacts

Name and Position	Contact Details
Chelsea Flood – Supervisor - Environment/ Sustainability & Safety	chelsea.flood@hanson.com.au
Stephen Butcher – Quarry Manager	steve.butcher@hanson.com.au
Belinda Pignone - Environmental Planning & Compliance Coordinator	belinda.pignone@hanson.com.au

1.3 Audit Objectives

The objectives of this IEA are to address the requirements of Schedule 5, Condition 9 of the Development Consent MP 08_0143, as well as the *Independent Audit Post Approval Requirements* (PAR) (DPE, 2020). In accordance with the Independent Audit PAR (DPE 2020) the purpose of an Independent Audit is to obtain an independent and objective assessment of the environmental performance and compliance status of a project.

Schedule 5, Condition 9 states:

By 30 June 2014, and every 3 years thereafter, unless the Secretary directs otherwise, the Proponent must commission and pay the full cost of an Independent Environmental Audit of the project. This audit must:

- (a) be conducted by suitably qualified, experienced, and independent team of experts whose appointment has been endorsed by the Secretary;*
- (b) include consultation with the relevant agencies;*
- (c) assess the environmental performance of the project and whether it is complying with the relevant requirements in this approval and any relevant EPL and/or Water Licence (including any assessment, plan or program required under these approvals);*
- (d) review the adequacy of any approved strategy, plan or program required under these approvals; and*
- (e) recommend measures or actions to improve the environmental performance of the project, and/or any assessment, plan or program required under these approvals.*

Schedule 5, Condition 10 states:

Within 3 months of commissioning this audit, or as otherwise agreed by the Secretary, the Proponent must submit a copy of the audit report to the Secretary, together with its response to any recommendations contained in the audit report.

As the last day of the audit was 6 September 2023, the report must be provided to the Secretary by 6 December 2023.

1.4 Audit Scope

The audit scope included the following key approvals/documents:

- MP 08_0143
- EPA 2193
- Statement of Commitments

Refer to **Section 3.1** for further details

1.5 Audit Period

The IEA covers the three year period from 1 September 2020 to 6 September 2023. The previous IEA was completed on the 8 September 2020 by AQUAS Pty Ltd.

2 AUDIT METHODOLOGY

2.1 Selection and Endorsement of Audit Team

As noted in **Section 1.2**, the DPE endorsed the IEA team in a letter dated 21/06/2023 (refer **Appendix A**). The IEA team are independent of Hanson, as defined under Section 3.1.1 of the PAR (DPE, 2020). A Declaration of Independence is included as **Appendix D**.

2.2 Independent Audit Scope Development

The scope of the IEA was developed in consultation with Hanson and BPQ during the proposal phase and was developed to comply with the requirements of Schedule 5, Condition 9 of MP 08_0143 as well as the Independent Audit PAR (DPE, 2020).

Additionally, IEMA consulted with DPE and various agencies during the early stages of the audit to seek input on any additional aspects that were requested to be included in the scope of the audit. This consultation is summarised in **Section 2.6** and **Section 3.8**.

2.3 Compliance Evaluation

The methodology for evaluating compliance during the IEA consisted of the following key steps:

- Reviewing key documents provided by BPQ prior to the Audit;
- Consultation with relevant government agencies as per the PAR prior to the site component;
- Onsite meeting with key BPQ personnel;
- Site component of the IEA including a field inspection. Photographs taken during the site inspection are included in **Appendix B**;
- Prior to the site inspection the IEA team undertook a desktop review of the approvals and documentation outlined in Section 3.1. IEMA also reviewed additional documentation provided by BPQ following the site inspection; and
- One round of client review and comments were received on the draft IEA report, prior to finalisation.

A large amount of evidence was viewed and collected as part of the IEA, including monitoring records, incident reports, plans, and correspondence. While this key evidence has been referenced in this document, it has not been attached to this IEA report.

2.4 Site interviews

Site interviews were completed with the following staff during the site inspection:

- Chelsea Flood – Supervisor - Environment/ Sustainability & Safety; and
- Stephen Butcher – Quarry Manager

Outcomes from these interviews are included in **Section 3.13**.

2.5 Site Inspections

Chris Jones (Lead Auditor) and Simon Kirgis (Auditor) visited the site on 5-6 September 2023 to complete a site inspection and verify field components of the audit. Findings from the site inspection are included in **Section 3.12**. Areas visited during the site inspection include:

- processing plant;
- visual amenity bunds;
- site dams;
- active quarry areas;
- areas of active rehabilitation; and
- workshop areas.

Additionally, attendees at the site inspections and meetings are included in **Table 3**.

Table 3 – Meeting Attendees

Name	Role and Company
Site Inspection and Onsite Audit Meeting [5 September]	
Chris Jones	Lead Auditor – IEMA
Simon Kirgis	Auditor – IEMA
Chelsea Flood	Supervisor – Environment/ Sustainability & Safety – BPQ
Stephen Butcher	Quarry Manager – BPQ
Syed Rasool	Graduate Management Trainee (learning experience) – BPQ
Nichola McNeil	Risk Coordinator (learning experience) – BPQ
Close-out Meeting [6 September]	
Chris Jones	Lead Auditor – IEMA
Simon Kirgis	Auditor – IEMA
Chelsea Flood	Supervisor – Environment/ Sustainability & Safety – BPQ
Stephen Butcher	Quarry Manager – BPQ
Syed Rasool	Graduate Management Trainee (learning experience)

2.6 Consultation

In accordance with the *Independent Audit PAR* (DPE, 2020) IEMA sought confirmation from DPE as to which Agencies were required to be consulted with during the audit. As directed by DPE, consultation was undertaken with the following agencies during the IEA:

- DPE;
- EPA; and
- Shellharbour City Council

The outcomes of this consultation are included in **Section 3.8**.

2.7 Compliance status descriptors

The terms used in the IEA to describe the status of compliance of the site with the relevant approval documentation are outlined in **Table 4**. These are requirements of the Independent Audit PAR (DPE, 2020).

Table 4 – Compliance Assessment Criteria

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

3 AUDIT FINDINGS

3.1 Approval and Document List

Key approvals and documentation reviewed as part of the IEA included, but were not limited to, the following:

- MP 080_0143;
- EPA 2193;
- Statement of Commitments;
- Environmental Management Strategy (2021);
- The following Management Plans:
 - *Noise and Blast Management Plan (2020)*;
 - *Water Management Plans – including surface and groundwater (2016)*;
 - *Transport Management Plan (2021)*;
 - *Air Quality Management Plan (2021)*;
 - *Cultural Heritage Management Plan (draft 2021)*; and
 - *Landscape Management Plan (2017)*.
- Incident Reports;
- Environmental Monitoring Data;
- Transport Data; and
- Complaints Register.

3.2 Compliance Performance

Overall BPQ achieved a high level of compliance with the requirements of the IEA. Of the total 161 conditions assessed 99 were found to be compliant (61.5%) with 41 conditions not triggered (25.5%) and 21 deemed non-compliant (13%). Non-compliances are outlined in **Section 3.4**.

3.3 Summary of Agency Notices, Orders, Penalty Notices or Prosecutions

All correspondence between Hanson, the Department and the EPA were reviewed during the audit period. It was noted that while there was self-reporting on non-compliances from Hanson, not all of these resulted in warnings or penalties being issued from the Department or the EPA, and as such have been excluded from the report.

The following agency notices, orders, penalty notices or prosecutions were issued to BPQ during the audit period:

- Penalty Notice (DPIE) Breach of section 4.2(1)(b) of the Environmental Planning and Assessment act 1979 (dated 23/11/2020)
 - *Hanson breached Section 4.2(1)(b) of the Act by failing to comply with Schedule 2, Condition 2 of development consent MP 08_0143, as modified (the consent) for the Bass Point Quarry (the Development), by authorising the receipt of material from Shell Cove Boat Harbour Development and emplacement of that material on the southern boundary of the Development, from August to November 2019, in contravention of the Consent.*

It was noted that while the penalty notice was given to Hanson during the audit period, the incident pertaining to this notice occurred outside of the audit period and was therefore not assessed during the audit.

- Formal Warning (EPA) Formal Warning in Relation to Breaches of Environment Protection Licence 2193 (dated 28/10/2020)
 - *Reference is made to the spill of approximately 1000 litres of diesel from the diesel fuelling station that occurred at your premises at approximately 2200 hours on 21 July 2020. You self-reported this spill to the Environment Protection Authority (EPA) on 23 July 2020.*
- Formal Warning (EPA) Formal Warning in Relation to Breaches of Environment Protection Licence 2193 (dated 09/08/2022)
 - *On 27 May 2022, the Licensee self-reported a discharge of sediment laden water from a non-licensed discharge point on the north eastern side of the premises. The EPA is of the opinion that HANSON CONSTRUCTION MATERIALS PTY LTD has breached licence condition L1 – Pollution of waters.*
- Formal Warning (EPA) Formal Warning in Relation to Breaches of Environment Protection Licence 2193 (dated 26/05/2023)
 - *On 5 April 2023, the Licensee self-reported a discharge of sediment laden water from Discharge Point 1 (DP1) on the southern side of the premises. The Environment Protection Authority (EPA) has identified:*
 - 1) *The Licensee did not follow its own water discharge method and as a result sediment-laden water was discharged via DP1.*
 - 2) *The discharge of sediment-laden water occurred for approx. 20 minutes before being stopped.*
 - 3) *Laboratory analysis of the licensee's grab sample collected from DP1 identified that the level of TSS was 81 milligrams per litre (mg/L).*
 - 4) *The licence limit for TSS at DP1 is 50mg/L (licence condition L2.4).*
- Warning Letter (DPE) Breach of Section 4.2(1)(b) of the Environmental Planning and Assessment act 1979 (dated 25/07/2022)
 - *Hanson breached Section 4.2(1)(b) of the Act by failing to comply with Schedule 3, Condition 7 of the development consent MP 08_0143, as modified (the Consent) for the Bass Point Quarry (the Development). Schedule 3, Condition 7 states:*
"The Proponent must ensure that blasting on the site does not cause exceedances of the criteria in Table 3."
- Warning Letter (DPE) Breach of section 4.2(1)(b) of the Environmental Planning and Assessment act 1979 (dated 21/12/2022)
 - *Hanson breached Section 4.2(1)(b) of the Act by failing to comply with Schedule 2, Condition 8 of the development consent MP 08_0143, as modified (the Consent) for the Bass Point Quarry (the Development). Schedule 2, Condition 8 states:*
"The Proponent must limit the dispatch of trucks carrying quarry products or concrete from the site to the levels shown in Table 1"
- Warnings/Letters for Water Exceedances
 - 31/03/2023 (pH exceedance - pH8.6) (advisory letter)
 - 19/07/2022 (TSS exceedance - 76ml/L) (advisory letter)
 - 27/08/2022 (pH exceedance – pH8.6) (advisory letter)

- 26/09/2022 (pH exceedance – pH8.6) (advisory letter)
- 04/04/2023 (pH exceedance – multiple from 2022 and 2023) (formal warning)
- 31/03/2023 (pH exceedance – pH8.6) (formal warning)

3.4 Non Compliances

Table 5 below outlines the summary of non-compliance's identified during the audit. Refer to **Appendix E** for the Audit Spreadsheet for more details.

Table 5 – Summary of Non - Compliances

Condition of Consent	Requirement	Evidence Collected	Independent Audit Findings and Recommendations	Unique Non Compliance												
Project Approval 08_0143																
Sch 2 Condition 8	The Proponent must limit the dispatch of trucks carrying quarry products or concrete from the site to the levels shown in Table 1. <table><caption>Table 1: Laden Truck Dispatch Hours</caption><thead><tr><th>Period</th><th>Maximum Laden Truck Dispatch</th></tr></thead><tbody><tr><td>7 am – 10 pm</td><td>40 in any hour</td></tr><tr><td>10 pm – 7 am</td><td>23 in any hour</td></tr><tr><td>5 am – 6 am (Monday to Friday only and excluding Public Holidays)</td><td>27</td></tr><tr><td>6 am – 7am (Monday to Friday only and excluding Public Holidays)</td><td>38</td></tr><tr><td>24-hour calendar day</td><td>500</td></tr></tbody></table>	Period	Maximum Laden Truck Dispatch	7 am – 10 pm	40 in any hour	10 pm – 7 am	23 in any hour	5 am – 6 am (Monday to Friday only and excluding Public Holidays)	27	6 am – 7am (Monday to Friday only and excluding Public Holidays)	38	24-hour calendar day	500	Annual Reviews Transport Data	On the 30/07/2022 the following: 5-6am - 25 laden trucks were dispatched. Prevailing hourly limit at this time is 23 6-7am - 26 laden trucks were dispatched. Prevailing hourly limit at this time is 23 Hanson has since incorporated an electronic system to assist in the dispatch of trucks to ensure future compliance. This system counts all trucks out. No further recommendations required.	NC – 001
Period	Maximum Laden Truck Dispatch															
7 am – 10 pm	40 in any hour															
10 pm – 7 am	23 in any hour															
5 am – 6 am (Monday to Friday only and excluding Public Holidays)	27															
6 am – 7am (Monday to Friday only and excluding Public Holidays)	38															
24-hour calendar day	500															
Sch 3 Condition 6	The Proponent must prepare a Noise Management Plan for the project to the satisfaction of the Secretary. This plan must: (a) be prepared in consultation with the EPA, and submitted to the Secretary for approval by 31 May 2014; (b) describe the measures that would be implemented to ensure: best management practice is being employed to minimise the construction, operational and transport noise of the project; - the noise impacts of the project are minimised during any meteorological conditions when the noise limits in this approval do not apply; and - compliance with the relevant conditions of this approval;	Annual Reviews Noise Monitoring Results (2020)	During the Q3/Q4 2020 noise monitoring the overall levels of ambient noise (i.e., LAmax, LA1, LA10, LA50, LA90, LA99, LAmin) were not reported on. This Management Plan is being updated to remove these ambient parameters, however not yet approved. No further recommendation needed	NC – 002												

Condition of Consent	Requirement	Evidence Collected	Independent Audit Findings and Recommendations	Unique Non Compliance												
	(c) describe the proposed noise management system in detail; and (d) include a monitoring program that: • is capable of regularly evaluating the performance of the project, including noisy individual items of plant, such as haulage trucks, crushers, and bulldozers; • includes a protocol for determining any exceedances of the relevant conditions in this approval at locations listed in Table 2; and • evaluates and reports on the effectiveness of the noise management system on site.															
Sch 3 Condition 7	The Proponent must ensure that blasting on the site does not cause exceedances of the criteria in Table 3. <table><caption>Table 3: Blasting criteria</caption><thead><tr><th>Location</th><th>Airblast overpressure (dB(Lin Peak))</th><th>Ground vibration (mm/s)</th><th>Allowable exceedance</th></tr></thead><tbody><tr><td></td><td>120</td><td>10</td><td>0%</td></tr><tr><td>Any residence on privately owned land</td><td>115</td><td>5</td><td>5% of the total number of blasts over a period of 12 months</td></tr></tbody></table>	Location	Airblast overpressure (dB(Lin Peak))	Ground vibration (mm/s)	Allowable exceedance		120	10	0%	Any residence on privately owned land	115	5	5% of the total number of blasts over a period of 12 months	Blast monitoring data Annual Review Incident Reports	Airblast overpressure result of 120.8 dBL was recorded at Monitoring Point B on 06 July 2022. This was equivalent to 2% of the total number of blasts over the reporting period, which is greater than the allowable exceedance criterion of 0%. Recommendation – ensure that all staff and contractors are appropriately trained and understand the blast designs to minimise reoccurrence.	NC - 003
Location	Airblast overpressure (dB(Lin Peak))	Ground vibration (mm/s)	Allowable exceedance													
	120	10	0%													
Any residence on privately owned land	115	5	5% of the total number of blasts over a period of 12 months													
Sch 3 Condition 13	The Proponent must prepare a Blast Management Plan for the project to the satisfaction of the Secretary. This plan must: (a) be prepared in consultation with the EPA, and be submitted to the Secretary for approval by 31 May 2014; (b) describe the measures that would be implemented to ensure: •best management practice is being employed; and •compliance with the relevant conditions of this approval;	Noise and Blast Management Plan	Based on site communications, the overpressure blast in 2022 (non-compliance above) was due to poor blast design. This failure of blast design is a <u>non-compliance</u> in the implementation of the Management Plan Recommendation – ensure that all staff and contractors are appropriately trained and understand the blast designs to minimise reoccurrence.	NC - 004												

Condition of Consent	Requirement	Evidence Collected	Independent Audit Findings and Recommendations	Unique Non Compliance																							
	(c) include a specific blast fume management protocol to demonstrate how emissions will be minimised, including risk management strategies if blast fumes are generated; and (d) include a monitoring program for evaluating the performance of the project including: •compliance with the applicable criteria; and •minimising fume emissions from the site. The Proponent must implement the approved management plan as approved from time to time by the Secretary.																										
Sch 3 Condition 14	The Proponent must ensure that all reasonable and feasible avoidance and mitigation measures are employed so that particulate matter emissions generated by the project do not exceed the criteria in Tables 4 to 6 at any residence on privately-owned land. Table 4: Long-Term Impact Assessment Criteria for Particulate Matter <table><tr><th>Pollutant</th><th>Averaging period</th><th>^a Criterion</th></tr><tr><td>Total suspended particulates (TSP)</td><td>Annual</td><td>≤ 90 µg/m³</td></tr><tr><td>Particulate matter < 10 µm (PM₁₀)</td><td>Annual</td><td>≤ 30 µg/m³</td></tr></table> Table 5: Short Term Impact Assessment Criteria for Particulate Matter <table><tr><th>Pollutant</th><th>Averaging period</th><th>^a Criterion</th></tr><tr><td>Particulate matter < 10 µm (PM₁₀)</td><td>24 hour</td><td>≤ 50 µg/m³</td></tr></table> Table 6: Long-Term Impact Assessment Criteria for Deposited Dust <table><tr><th>Pollutant</th><th>Averaging period</th><th>Maximum increase in deposited dust level</th><th>Maximum total deposited dust level</th></tr><tr><td>^a Deposited dust</td><td>Annual</td><td>≤ 2 g/m²/month</td><td>≤ 4 g/m²/month</td></tr></table> Notes to Tables 4-6: ^a Total Impact (i.e. incremental increase in concentrations due to the project plus background concentrations due to all other sources). ^b Incremental impact (i.e. incremental increase in concentrations due to the project on its own). ^c Deposited dust is to be assessed as insoluble solids as defined by Standards Australia, AS/NZS 3560.10.1:2003 Methods for Sampling and Analysis of Ambient Air - Determination of Particulate Matter - Deposited Matter - Gravimetric Method. ^d Excludes extraordinary events such as bushfires, prescribed burning, dust storms, sea fog, fire incidents, illegal activities or any other activity agreed by the Secretary in consultation with EPA.	Pollutant	Averaging period	^a Criterion	Total suspended particulates (TSP)	Annual	≤ 90 µg/m ³	Particulate matter < 10 µm (PM ₁₀)	Annual	≤ 30 µg/m ³	Pollutant	Averaging period	^a Criterion	Particulate matter < 10 µm (PM ₁₀)	24 hour	≤ 50 µg/m ³	Pollutant	Averaging period	Maximum increase in deposited dust level	Maximum total deposited dust level	^a Deposited dust	Annual	≤ 2 g/m ² /month	≤ 4 g/m ² /month	2021 and 2022 Annual Review Air Quality data Air Quality Management Plan	There were eight instances where the 24 hour average PM₁₀ recorded at monitoring point PM₁₀-2 was greater than the 50 µg/m³ 25/02/2021 - The 24 hour average PM₁₀ was 56 µg/m³, which is greater than the 50 µg/m³ criterion. . 03/03/2021 - The 24 hour average PM₁₀ was 51 µg/m³, which is greater than the 50 µg/m³ criterion. 09/03/2021 - The 24 hour average PM₁₀ was 80 µg/m³, which is greater than the 50 µg/m³ criterion. 27/04/2021 - The 24 hour average PM₁₀ was 69 µg/m³, which is greater than the 50 µg/m³ criterion. 02/06/2021 - The 24 hour average PM₁₀ was 59 µg/m³, which is greater than the 50 µg/m³criterion. 09/07/2021 - The 24 hour average PM₁₀ was 55 µg/m³, which is greater than the 50 µg/m³ criterion. 02/10/2021 - The 24 hour average PM₁₀ was 72 µg/m³, which is greater than the 50 µg/m³ criterion. 26/10/2021 - The 24 hour average PM₁₀ was 68 µg/m³, which is greater than the 50 µg/m³criterion.	NC - 005
Pollutant	Averaging period	^a Criterion																									
Total suspended particulates (TSP)	Annual	≤ 90 µg/m ³																									
Particulate matter < 10 µm (PM ₁₀)	Annual	≤ 30 µg/m ³																									
Pollutant	Averaging period	^a Criterion																									
Particulate matter < 10 µm (PM ₁₀)	24 hour	≤ 50 µg/m ³																									
Pollutant	Averaging period	Maximum increase in deposited dust level	Maximum total deposited dust level																								
^a Deposited dust	Annual	≤ 2 g/m ² /month	≤ 4 g/m ² /month																								

Condition of Consent	Requirement	Evidence Collected	Independent Audit Findings and Recommendations	Unique Non Compliance
			2021 - The annual average PM₁₀ result was 36 µg/m³; above the annual average criterion of 30 µg/m³ 02/05/2022 - The 24-hour average PM₁₀ was 51 µg/m³, which is greater than the 50 µg/m³ criterion. Hanson - Results impacted by sources offsite and not associated with the quarry. It is believed that PM₁₀ results may have been impacted by adjacent significant earthworks. Recommendation – Hanson to look into real time operating systems to help monitor and adjust quarry operation. Hanson to also get real time alarms operational again	
Sch 3 Condition 16	The Proponent must prepare an Air Quality Management Plan for the project to the satisfaction of the Secretary. This plan must: (a) be prepared in consultation with the EPA, and submitted to the Secretary for approval by 31 May 2014; (b) describe the measures that would be implemented to ensure: • best management practice is employed; • the air quality impacts of the project are minimised during adverse meteorological conditions and extraordinary events; and • compliance with the relevant conditions of this approval; (c) describe the proposed air quality management system based on the preparation of a site-specific best management practice determination and reactive dust management strategy; and	Annual Reviews Air Quality Management Plan	<u>Non-Compliant</u> on the implementation of the Air Quality Management Plan Self-reported in 2021 Annual Review - the Low Volume Air Sampler (LVAS) was not available for sampling from 16 February 2020 to 18 April 2020 due to maintenance. A backup LVAS unit was available but malfunctioned, such that there were no LVAS units available to undertake monitoring in accordance with the Air Quality Management Plan. It is understood that failure was due to power supply. Hanson has switched LVAS to solar to help reduce battery failures, which appears to have reduced outages occurring. No further recommendations required.	NC – 006

Condition of Consent	Requirement	Evidence Collected	Independent Audit Findings and Recommendations	Unique Non Compliance
	(d) include an air quality monitoring program that: • is capable of evaluating the performance of the project; • includes a protocol for determining any exceedances of the relevant conditions of approval; • adequately supports the air quality management system; and • evaluates and reports on the adequacy of the air quality management system The Proponent must implement the approved management plan as approved from time to time by the Secretary.			
Sch 3 Condition 19	Unless an EPL or the EPA authorises otherwise, the Proponent must ensure that all surface water discharges from the site comply with section 120 of the POEO Act. EPA Formal Warning Letter.	EPA Formal Warning Letter	In a letter dated 09/08/2022: On 27 May 2022, the Licensee self-reported a discharge of sediment laden water from a non-licensed discharge point on the north eastern side of the premises. The EPA is of the opinion that HANSON CONSTRUCTION MATERIALS PTY LTD has breached licence condition L1 – Pollution of waters. Recommendation – Hanson should ensure that adequate provisions are made to ensure all water is contained onsite and to minimise reoccurrence.	NC - 007
Sch 3 Condition 22	The Proponent must ensure that all chemicals and/or petroleum products on site are held in appropriately bunded areas with impervious flooring and sufficient capacity to contain 110% of the largest container stored within the bund, and in accordance with Australian Standard AS1940-2004,	Site Inspections	Site inspections highlighted multiple products in IBC's which were not stored correctly or removed from site. Of note was the storage of hydrochloric acid, which was not stored in bunded area in graveyard area. Recommendation – remove unwanted items in graveyard area/ and all containers/ IBC's stored in appropriate bunded areas. Ensure all items are correctly disposed of in licenced facilities	NC – 008

Condition of Consent	Requirement	Evidence Collected	Independent Audit Findings and Recommendations	Unique Non Compliance
	The Storage and Handling of Flammable and Combustible Liquids. The flooring and bund(s) must be designed in accordance with: - the requirements of relevant Australian Standards; and - DECC's Storing and Handling Liquids: Environmental Protection – Participants Manual.			
Sch 3 Condition 24 (a)	Site Water Balance that: - includes details of: - sources and security of water supply, including contingency planning; - water use on site; - water management on site, including groundwater inflows to the quarry voids and site discharges; and - audit and reporting procedures, including comparisons of the site water balance each calendar year; and - describes the measures that would be implemented to minimise clean water use on site and maximise recycling opportunities;	Annual Reviews Site Water Balance	<u>Non-Compliant</u> – Throughout the audit period, Hanson failed to undertake an annual audit of the Site Water Balance as required by this condition. 2020 - Site Water Balance requires an annual audit of the sites Water Balance to be undertaken. 2021 - Site Water Balance requires an annual audit of the sites Water Balance to be undertaken. 2022 - Site Water Balance requires an annual audit of the sites Water Balance to be undertake Recommendation - Hanson to update the Site Water Balance which is to include the audit and reporting procedures, including comparisons of the site water balance each calendar year.	NC - 009
Sch 3 Condition 24 (b)	Surface Water Management Plan, that includes: - a detailed description of the surface water management system on site, including the: - clean water diversion systems; - erosion and sediment controls; - effluent irrigation system; - water transfers from the Extraction Areas; - water storages; and - discharge points;	Annual Reviews Environmental Monitoring Report Surface Water Management Plan Killalea Lagoon Management Plan	- There were 15 non-compliances associated with surface water discharge in 2022 - Additionally, there are 2 non-compliances associated with surface water discharge in 2023 - On the 27/05/2022 Hanson had an unlicensed discharge off site with TSS 481 recorded, this was reported to the EPL, and a formal warning was given for the pollution of waters. (see NC – 008)	NC – 010

Condition of Consent	Requirement	Evidence Collected	Independent Audit Findings and Recommendations	Unique Non Compliance
	- design objectives and performance criteria for proposed: - erosion and sediment control structures; - water storages, including quarry voids; - site discharges; and - control of water pollution from rehabilitated areas of the site; - performance criteria, including trigger levels for investigating any potentially adverse impacts for surface water quality in Killalea Lagoon and Bushrangers Bay; - a program to monitor: - the effectiveness of the water management system; - site discharge water quality; and - surface water level and quality in Killalea Lagoon, including the quantification of rainfall inflow, groundwater inflow and evaporation; - a plan to respond to any exceedances of the performance criteria, and mitigate and/or offset any adverse surface water impacts of the project; - long term water quality management objectives and the measures to achieve these objectives; and - audit and reporting procedures, including comparisons of the monitoring results		Recommendation - Continue to look into ways to lower TSS. Liaise with planning and EPA if chemical flocculation is to be used.	
Sch 3 Condition 29	The Proponent must ensure that all heavy vehicles: (a) do not exceed an on-site speed limit of 30 km per hour;	2020-2022 Annual reviews Transport Data Transport Management Plan	<u>Non-Compliant</u> on condition (d) d) 2021 Annual Review - Between 03/02/2021 to 19/03/2021, 275 road trucks carrying quarry materials were dispatched from site without appropriate tarps/covers. It should be noted however, that	NC - 011

Condition of Consent	Requirement	Evidence Collected	Independent Audit Findings and Recommendations	Unique Non Compliance
	(b) do not exceed a speed limit of 50 km per hour on Bass Point Quarry Road; (c) are dispatched from the site in a controlled manner to minimise queuing and potential delays at the roundabout and Dunmore Road intersections; (d) have their loads covered when entering or leaving the site, and (e) ensure that all laden trucks are cleaned of material that may fall from them, before leaving the site.		these trucks were dispatched with armour rocks material i.e., rocks over 1m in diameter, not small aggregate, or road base. It should be noted that there were no complaints received for this incidence, and the failure to cover loads was discovered by Hanson staff. No further recommendations	
Sch 3 Condition 33	The Proponent must prepare a Transport Management Plan for the project to the satisfaction of the Secretary. This plan must: (a) be prepared by suitably qualified experienced person(s), whose appointment has been approved by the Secretary; (b) be prepared in consultation with Council and RMS, and be submitted to the Secretary within three months of the determination of Modification 2, or as otherwise agreed by the Secretary; (c) include details of all transport routes and traffic types to be used for project-related traffic; (d) describe the processes in place for the control of truck movements entering and exiting the site; (e) include details of the measures to be implemented to minimise traffic safety issues and	Transport Management Plan (2019) Annual Review 2020-2022	a) No evidence of endorsement provided in Management Plan <u>Non-Compliant</u> on the implementation of the Traffic Management Plan: - Between 03/02/2021 to 19/03/2021 275 road trucks carrying quarry materials were dispatched from site without appropriate tarps/covers. (self-reported) - Additionally, on 30/07/2022 between 5-6am - 25 laden trucks were dispatched. Prevailing hourly limit at this time is 23 - between 6-7am - 26 laden trucks were dispatched. Prevailing hourly limit at this time is 23 Recommendation – Add letter of appointment (a) to management plan. No further recommendations for the non-compliance/	NC - 012

Condition of Consent	Requirement	Evidence Collected	Independent Audit Findings and Recommendations	Unique Non Compliance
	disruption to local road users, including minimising potential for conflict with school buses; (f) include a Driver's Code of Conduct that includes procedures to ensure that drivers: (i) adhere to posted speed limits or other required travelling speeds; (ii) adhere to designated transport routes; (iii) implement safe and quiet driving practices; (iv) are aware of potential safety issues along the haulage route, particularly near schools and intersections; (g) describe the measures to be put in place to ensure compliance with the Driver's Code of Conduct; and (h) propose measures to minimise the transmission of dust and tracking of material onto the surface of public roads from vehicles exiting the site. The Proponent must implement the Transport Management Plan as approved by the Secretary.			
Sch 5, Condition 1	The Proponent must prepare an Environmental Management Strategy for the project to the satisfaction of the Secretary. This strategy must: (a) be submitted to the Secretary for approval by 31 July 2014; (b) provide the strategic framework for environmental management of the project; (c) identify the statutory approvals that apply to the project;	• Complaints and Incident report • EMS (2021)	<u>Non-Compliant</u> on the Implementation for the following: Section 4.5.2 Non-Compliance incident states: "Within 7 days of the date of the non-compliance incident, Hanson will provide a detailed report to DPIE and the EPA (as deemed relevant)" This example below was outside the seven days for report notifications - resulting in <u>non-compliance</u>. • Detailed Incident Investigation Report regarding discharge of polluted water (excess pH) via LDP1 was provided to Planning on 14/09/2022, with Hanson advising the Secretary of the incident on	NC – 013

Condition of Consent	Requirement	Evidence Collected	Independent Audit Findings and Recommendations	Unique Non Compliance
	(d) describe the role, responsibility, authority, and accountability of all key personnel involved in the environmental management of the project; (e) describe the procedures that would be implemented to: • keep the local community and relevant agencies informed about the operation and environmental performance of the project; • receive, handle, respond to, and record complaints; • resolve any disputes that may arise during the course of the project; • respond to any non-compliance; and • respond to emergencies; and (f) include: • copies of any strategies, plans and programs approved under the conditions of this approval; and • a clear plan depicting all the monitoring required to be carried out under the conditions of this approval. The Proponent must implement the approved strategy as approved from time to time by the Secretary.		31/08/2022. The incident occurred on 27/08/2022 (further details of incident detailed in Sch 3, Condition 24b). Report was provided 14 days after notifying Planning of the incident. Recommendation - Hanson to ensure all detailed incident reporting is provided to DPE within 7 days.	
Sch 5, Condition 4	By the end of March each year, the Proponent must review the environmental performance of the project to the satisfaction of the Secretary. This review must: (a) describe the development (including rehabilitation) that was carried out in the previous calendar year, and the development that is proposed to be carried out over the current calendar year;	2021 Annual Review	2021 Annual review was issued on 28/07/2022 and was approved by DPE on the 19/08/2022. Final draft version was completed by 31/03/2022. As the consent requires the Annual Review to be submitted by the end of March, the submission in August deems this a non-compliance. Recommendation: Hanson to ensure that all Annual Reviews are submitted to the Secretary by the end of March each year.	NC – 014

Condition of Consent	Requirement	Evidence Collected	Independent Audit Findings and Recommendations	Unique Non Compliance
	(b) include a comprehensive review of the monitoring results and complaints records of the project over the previous calendar year, which includes a comparison of these results against: • the relevant statutory requirements, limits, or performance measures/criteria; • the monitoring results of previous years; and • the relevant predictions in the EA; (c) identify any non-compliance over the last year, and describe what actions were (or are being) taken to ensure compliance; (d) identify any trends in the monitoring data over the life of the project; (e) identify any discrepancies between the predicted and actual impacts of the project, and analyse the potential cause of any significant discrepancies; and (f) describe what measures will be implemented over the current calendar year to improve the environmental performance of the project			
Sch 5, Condition 7A	Within 7 days of the date of the incident, the Proponent must provide the Secretary and any relevant agencies with a detailed report on the incident, and such further reports as may be requested. This report must include the time and date of the incident, details of the incident, measures implemented to prevent re-occurrence and must identify and non-compliance with this approval.	Incident Reporting	This example below was outside the seven days for report notifications - resulting in <u>non-compliance</u>. • Detailed Incident Investigation Report regarding discharge of polluted water (excess pH) via LDP1 was provided to Planning on 14/09/2022, with Hanson advising the Secretary of the incident on 31/08/2022. The incident occurred on 27/08/2022 (further details of incident detailed in Sch 3, Condition 24b). Report was provided 14 days after notifying Planning of the incident.	Per NC – 013
Environment Protection Licence - 2193				
L1.1	Except as may be expressly provided in any other condition of this licence, the licensee must	EPA Formal warning letter	In a letter dated 09/08/2022.	Per NC – 007

Condition of Consent	Requirement	Evidence Collected	Independent Audit Findings and Recommendations	Unique Non Compliance																								
	comply with section 120 of the Protection of the Environment Operations Act 1997.		On 27 May 2022, the Licensee self-reported a discharge of sediment laden water from a non-licensed discharge point on the north eastern side of the premises. The EPA is of the opinion that HANSON CONSTRUCTION MATERIALS PTY LTD has breached licence condition L1 – Pollution of waters.																									
L2.4	Water and/or Land Concentration Limits POINT 1.2.3 <table><tr><th>Pollutant</th><th>Units of Measure</th><th>50 percentile concentration limit</th><th>90 percentile concentration limit</th><th>30DM concentration limit</th><th>100 percentile concentration limit</th></tr><tr><td>Oil and Grease</td><td>Visible</td><td></td><td></td><td></td><td>Not Visible</td></tr><tr><td>pH</td><td>pH</td><td></td><td></td><td></td><td>6.5 - 8.5</td></tr><tr><td>Total suspended solids</td><td>milligrams per litre</td><td></td><td></td><td></td><td>50</td></tr></table>	Pollutant	Units of Measure	50 percentile concentration limit	90 percentile concentration limit	30DM concentration limit	100 percentile concentration limit	Oil and Grease	Visible				Not Visible	pH	pH				6.5 - 8.5	Total suspended solids	milligrams per litre				50	Water Monitoring Data Annual Reviews	There were 15 non-compliances associated with surface water discharge in 2022 Additionally, there are 2 non-compliances associated with surface water discharge in 2023. See Schedule 3, C 24b for details of these. On the 27/05/2022 Hanson had an unlicensed discharge off site with TSS 481 mg/L recorded, this was reported to the EPL, and a formal warning was given for the pollution of waters. Further details of this event are detailed in L1.1 above	Per NC – 010
Pollutant	Units of Measure	50 percentile concentration limit	90 percentile concentration limit	30DM concentration limit	100 percentile concentration limit																							
Oil and Grease	Visible				Not Visible																							
pH	pH				6.5 - 8.5																							
Total suspended solids	milligrams per litre				50																							
L3.2	The Airblast overpressure level from blasting operations at the premises must not exceed: a) 115 dB (Lin Peak) for more than 5% of the total number of blasts during each reporting period; and b) 120 dB (Lin Peak) at any time. At "Monitoring Point A - Blast Monitor" or "Monitoring Point B - Blast Monitor" as labelled on the aerial photo titled 'BASS POINT QUARRY Monitoring Location - EPA' dated 11 June 2020.	Blast monitoring data	Airblast overpressure result of 120.8 dBL was recorded at Monitoring Point B on 06 July 2022. This was equivalent to 2% of the total number of blasts over the reporting period, which is greater than the allowable exceedance criterion of 0%. See Schedule 3, Condition 7 for further details	Per NC - 003																								
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		Improper storage of hydrocarbons witnessed during site inspections. Recommendation – remove unwanted items in graveyard area. All containers/ IBC’s stored in appropriate bunded areas. Ensure all items are correctly disposed of in licenced facilities	Per NC - 008																								

Condition of Consent	Requirement	Evidence Collected	Independent Audit Findings and Recommendations	Unique Non Compliance																
	b) the treatment, storage, processing, reprocessing, transport, and disposal of waste generated by the activity.																			
M2.2	Water and/ or Land Monitoring Requirements POINT 1,2,3 <table><tr><th>Pollutant</th><th>Units of measure</th><th>Frequency</th><th>Sampling Method</th></tr><tr><td>Oil and Grease</td><td>Visible</td><td>Daily during any discharge</td><td>Inspection</td></tr><tr><td>pH</td><td>pH</td><td>Daily during any discharge</td><td>Grab sample</td></tr><tr><td>Total suspended solids</td><td>milligrams per litre</td><td>Daily during any discharge</td><td>Grab sample</td></tr></table>	Pollutant	Units of measure	Frequency	Sampling Method	Oil and Grease	Visible	Daily during any discharge	Inspection	pH	pH	Daily during any discharge	Grab sample	Total suspended solids	milligrams per litre	Daily during any discharge	Grab sample	EPL Monitoring Data	On the 04/07/2022 a discharge event from LDP 1 was not collected, as Hanson deemed this too dangerous for collection as detailed in the EPL monitoring report. IEMA agrees that not sampling due to dangerous conditions is an appropriate and valid response. However, as Hanson did not notify the EPA of this missed sample, the audit team has found BPQ non-compliant for water monitoring requirements for that date. This was reported in the 2022-2023 Annual Return; however, Hanson did not notify the EPA at the time that sampling was not conducted due to dangerous conditions. Both MP 08_0143 and EPA 2193 have a timeframe for reporting an incident or exceedance as 7 days. Had Hanson reported the missed sample, this condition would have been compliant. Recommendation- all missed samples should be notified to the EPA within 7 days as per Condition R2.2. While this missed sample may not have caused environmental harm, this timeframe is a used for reporting incidents or exceedances.	NC – 015
Pollutant	Units of measure	Frequency	Sampling Method																	
Oil and Grease	Visible	Daily during any discharge	Inspection																	
pH	pH	Daily during any discharge	Grab sample																	
Total suspended solids	milligrams per litre	Daily during any discharge	Grab sample																	
Statement of Commitments																				
	A detailed site Water Management Plan will be prepared for the Project. This plan must be prepared in consultation with NSW Office of Water and NSW EPA to the satisfaction of the Director General of the Department of Planning and Infrastructure. The plan must include: a. Establishment of a monitoring program for site water resources. Monitoring is to include as a minimum:	Water Balance Assessment Surface Water Management Plan	<u>Non-Compliant</u> for condition (b) Hanson has failed to undertake yearly updates of the Water Balance Report as self-reported in the 2020-2022 Annual Reviews. Non - Compliant for Condition B. See NC-10 for recommendations	Per NC - 010																

Condition of Consent	Requirement	Evidence Collected	Independent Audit Findings and Recommendations	Unique Non Compliance
	• Flow and water quality (TSS) at proposed ocean discharge point for at location identified and licensed under the site EPL. • Discharge from quarry void dewatering pumps. • Metering of town water inflows to the site. • Metering of wastewater discharges (sewage). b. The maintenance of a water balance model covering the site and Killalea Lagoon, this balance is to be annually assessed. The model must take account of water inflows and discharges from the site and is to allow for the informed assessment of environmental monitoring data. The water balance must document the following: • Rainfall inputs to quarry voids and Killalea Lagoon. • Estimated evaporative losses from quarry voids and Killalea. • Uses of water within the quarry operation. • Discharge from quarry void to licensed outlet and transfers between voids. • All other inflows and outflows from the quarry. • Estimates of groundwater inflows to quarry void based on balance of other inflow, outflows, and losses. c. Assessment of licensing requirements and details of any Water Access Licences (WALs) in place. d. Requirement for annual reporting of the findings of the monitoring and review and analysis of the site water balance.			

3.5 Previous Audit Recommendations

During the audit BPQ provided an update on outstanding previous 2020 IEA actions. The 2020 audit was conducted by Aquas Pty Ltd, with actions being either completed or listed as ongoing. Evidence was provided to IEMA to support this. An update on the previous audit actions has also been included with each Annual Review

While there are still many previous IEA recommendations listed as ongoing, this is due to continued reporting and monitoring procedures, e.g., NC-04 below states that “Hanson should ensure that monitoring of all blast events is conducted in accordance with Schedule 3, Condition 14”. This recommendation is still listed as ongoing, as continued monitoring is required for all blasts.

The status of outstanding actions from the previous audit is summarised in **Table 6** below. **Section 4** contains recommendations for this audit period.

Table 6 – Previous Audit Recommendations

Issue No.	Condition	2020 IEA Recommendations	BPQ Comment	Status
NC-01	Schedule 2, Condition 2	Hanson should ensure that appropriate processes are developed and implemented to ensure compliance with the requirements of the conditions of consent.	The Auditor's recommendation is that "Hanson should ensure that appropriate processes are developed and implemented to ensure compliance with the requirements of the conditions of consent." Hanson at the Bass Point Quarry aim for continuous improvement of processes related to compliance matters, including compliance with the conditions of consent. This ongoing refinement of processes occurs following any non-compliances (as detailed during the reporting process), but more importantly, it occurs on a proactive basis. Hanson's commitment to ongoing compliance with the conditions of consent is demonstrated in the appointment of a permanent full-time Compliance Officer in 2019.	Ongoing
NC-02	Schedule 2, Condition 8	Hanson should ensure that the maximum number of laden trucks despatched does not exceed that permitted by Schedule 2, Condition 8 in any period.	This issue has now been rectified within the weighbridge with the SAP system (weighbridge operating system) now locking out operators once the movement limit has been reached. No further exceedances have occurred since the implementation of this software change.	None Required
NC-03	Schedule 3, Condition 6	Hanson should ensure that records are maintained to verify that noise monitoring includes characterisation of the overall levels of ambient noise (i.e., L _{Amax} , L _{A1} , L _{A10} , L _{A50} , L _{A90} , L _{A99} , L _{Amin}) over the 15 minute measurement interval.	Hanson requested on 30/09/2020 that the acoustical consultant include the additional ambient noise parameters within the scope of future noise monitoring if this is not already the case. Hanson also requested that monitoring of these parameters be acknowledged within future noise monitoring reports.	Completed. Approved Noise Management Plan no longer has requirement to monitor ambient noise (i.e., L_{Amax}, L_{A1}, L_{A10} etc)
NC-04	Schedule 3, Condition 14	Hanson should ensure that monitoring of all blast events is conducted in accordance with Schedule 3, Condition 14.	Hanson endeavour to undertake blasting activities in accordance with industry best practice and in accordance with the relevant conditions of consent. All the control measures reported to DPIE in the detailed incident report have been implemented by Hanson. All	Ongoing

Issue No.	Condition	2020 IEA Recommendations	BPQ Comment	Status
			blast events since 14/02/2020 have been appropriately monitored and records maintained accordingly.	
NC-05	Schedule 3, Condition 14	While particulate matter (PM10) exceedances had been recorded for monitoring at location PM10-2, site investigations attributed the exceedances to off-site impacts and the close proximity of the monitoring location to the site.	Hanson will undertake a review of controls for managing dust emissions from site to ensure that all feasible measures are implemented, as per the auditors recommendations.	Completed
NC-06	Schedule 3, Condition 16	Hanson should review controls for managing dust emissions from site to ensure that all feasible measures are implemented.	Ongoing maintenance of air quality monitors will require a back-up unit to be utilised at all times. If further malfunctioning of air quality monitors do occur, which results in a period where no data has been collected, the DPIE will be notified of the incident.	Ongoing
NC-07	Schedule 3, Condition 19 EPL Condition L1 EPL Condition L2	Hanson should ensure that Surface water discharges comply with site licenced discharge requirements. Consider requesting a variation to the EPL to consider uncontrolled discharges during periods of exceptional rainfall.	An EPL variation was finalised on 18 June 2020. The variation included provisions for discharges during periods of exceptional rainfall, as was recommended by the Auditor. The EPA have since advised that another EPL variation is necessary, so that there is greater clarity on discharges during periods of exceptional rainfall. Hanson will work cooperatively with the EPA in this regard to complete the EPL variation and ensure ongoing compliance with EPL conditions.	Ongoing
NC-08	Schedule 3, Condition 40	Weed inspections should be conducted in accordance with the requirements of the Landscape Management Plan.	Since the Independent Environmental Audit Hanson have secured two different businesses to undertake complementary weed control activities on site. One business has already commenced weed control activities on site. The other business is due to commence weed control activities next month. These activities will continue, to ensure ongoing compliance with the Landscape Management Plan.	Ongoing.
NC-09	Schedule 3, Condition 41	No further actions required		None Required

Issue No.	Condition	2020 IEA Recommendations	BPQ Comment	Status
NC-10	Schedule 5, Condition 1	The incident register should be audited at three monthly intervals in accordance with the requirements of the Environmental Management Strategy.		Ongoing
NC-11	Schedule 5, Condition 2	All non-compliances should be reported to DPIE in accordance with the requirements of Schedule 5, Condition 2.	Ongoing maintenance of air quality monitors will require a back-up unit to be utilised at all times. If further malfunctioning of air quality monitors do occur which results in a period where no data has been collected, the DPIE will be notified of the incident.	Ongoing
NC-12	Schedule 5, Condition 5	Management plans should be reviewed, and updated where required, in accordance with the requirements of Schedule 5, Condition 5.	The update to management plans have been ongoing since the beginning of 2019. Hanson will strive to finalise the outstanding management plans by the end of January 2021.	Completed 2021
NC-13	Schedule 5, Condition 7	Hanson should ensure that DPIE is notified immediately upon becoming aware of an environmental incident, including exceedances of site monitoring criteria.	EPA and DPIE will be notified concurrently on all incidents that occur at the site	Ongoing
NC-14	EPL Condition A1.1	No further action required		None Required
NC-15	EPL Condition M2.10 and M2.2	Hanson should ensure that water quality monitoring is conducted for all discharge events in accordance with the requirements of EPL 2193.		Ongoing

3.6 Management Plans, Sub-Plans and Compliance Documents

BPQ operates under a number of different management plans, as outlined in the Environmental Management Strategy (2021). The approved management plans required by MP 08_0143 that were reviewed as part of this audit are summarised in **Table 7**, with compliance assessed in **Appendix E**.

Table 7 – Approved Management Plans

Development Consent Condition	Management Plan	Document Date	Summary of Management Plan	Compliance Assessment
Schedule 3, Condition 6	Noise and Blast Management Plan	October 2020	Noise Management Plan generally provides a detailed description of noise management and monitoring. Noise Management Measures are detailed in section 3, which also include mitigation methods.	Noise and Blast Management plan satisfies the project approval requirement. Hanson has provided evidence that an updated 2022 Noise and Blast Management Plan is currently under assessment by DPE. Since the site inspection, this new 2022 Noise and Blast Management Plans has been approved. Hanson were deemed <u>non-compliant</u> on the implementation of the management plan. See S3,C6 and C13 of the audit spreadsheet.
Schedule 3 Condition 13			Blast Management Plan details the Blast Management and monitoring in Section 7. Airblast and Ground Vibration checklist is also included. Section 8 detail Blast Fume Emissions including mitigation methods and ta monitoring program for blast fume emissions.	
Schedule 3 Condition 16	Air Quality Management Plan	November 2021	Air Quality Management Plan details the monitoring program, mitigation measures, contingency plan, and the reporting requirements.	Air Quality Management Plan satisfies the project approval requirements. Hanson were deemed <u>non-compliant</u> on the implementation of the management plan. See S3,C16 of the audit spreadsheet.
Schedule 3 Condition 24	a) Site Water Balance	September 2016.	Site Water Balance details the water sources, supply, and demand of BPS, along with the water balance audit and reporting procedures.	<u>Non-Compliant</u> . There is a requirement for the Site Water Balance to be reviewed and assessed each year. See S3,C24a of the audit spreadsheet.

Development Consent Condition	Management Plan	Document Date	Summary of Management Plan	Compliance Assessment
	b) Surface Water Management Plan	September 2016.	Surface Water Management Plan includes the sediment and erosion control, effluent irrigation systems and water discharge points. Monitoring and long term management is also included.	Surface Water Management Plan satisfies the project approval requirements. Hanson were deemed <u>non-compliant</u> on the implementation of the management plan. See S3,C24b of the audit spreadsheet.
	c) Groundwater Management Plan	October 2016.	Groundwater Management Plan details the groundwater monitoring, long term managements, and reporting requirements	Ground Water Management Plan satisfies the project approval requirements. There is an updated management plan awaiting approval.
Separate plan to address conditions in Condition 24	Killalea Lagoon Management Plan	September 2016.	Separate management plan that details all the management and monitoring requirements of Condition 24 applicable to Killalea Lagoon	Killalea Lagoon Management plan satisfies the project approval requirements. BPQ have separated all the Killalea Lagoon requirements from Condition 24.
Schedule 3 Condition 33	Transport Management Plan	June 2019 (2021 in portal)	Transport Management Plan details the requirements that BPQ has in regard to: • Transportation routes • Drive Code of Conduct • Monitoring requirements • Road maintenance programs	Transport Management plan is compliant, however is noted that the letter of endorsement is not attached. Hanson has provided evidence that an updated Transport Management Plan is currently under assessment by DPE. Hanson were deemed <u>non-compliant</u> on the implementation of the management plan. See S3,C33 of the audit spreadsheet
Schedule 3 Condition 37	Heritage Management Plan	August 2016	Cultural Heritage Management Plan covers the Aboriginal cultural heritage and historic cultural heritage across the BPQ site.	Cultural Heritage Management Plan satisfies the project approval requirements and is approved.

Development Consent Condition	Management Plan	Document Date	Summary of Management Plan	Compliance Assessment
Schedule 3 Condition 40	Landscape Management Plan	November 2017	Landscape Management plan outlines the rehabilitation commitments, rehabilitation risks, vegetation management and the reporting and monitoring criteria.	Landscape Management Plan satisfies the project approval requirements. There is an updated version of the management plan, however this is still awaiting approval.

3.7 Environmental Performance

During the IEA BPQ was found to have achieved a high level of environmental performance. Non compliances are outlined in **Section 3.4** and recommendations are included in **Section 4**. There are no further issues regarding environmental performance identified during the audit.

3.8 Consultation Outcomes

Table 8 outlines the agency consultation completed for the IEA, undertaken in accordance with the 2020 PAR. The responses have been provided as **Appendix C**.

Table 8 – Agency Consultation for the IEA

Regulator	Contact Details	Summary of Stakeholder	Audit Team Response
DPE	Georgia.Dragicevic@planning.nsw.gov.au	In addition to the IEA consent condition requirement, please look into air, noise, traffic, and water management.	During the 2023 IEA, the Audit team reviewed all monitoring data relating to air, noise, traffic, and water management. These findings are included in the audit spreadsheet. There is also a general summary of management plans in Section 3.6.
EPA	jarryd.thomson@epa.nsw.gov.au	As discussed in the meeting, although the EPA does not currently have any major areas of concern with the operation at BPQ, we would recommend particular focus on the following aspects: • Air quality impacts, particularly management and monitoring of dust generation • Adequacy of and compliance with site surface water controls and discharges (particularly TSS and pH) • Adequacy of controls for blasting and compliance with blast limits in their Environment Protection Licence	The audit team have reviewed the areas requested by the EPA and found that while there was minor exceedance, the overall management and monitoring was compliant.
Shellharbour Council	Mark.Miller@shellharbour.nsw.gov.au	During the audit period, Council has raised a concern with the discharge of water or another substance from a discharge point located below the former lab. Council conducted some testing, which disclosed some pollution in the form of petroleum based products. However, with the works that were being conducted on the Bass Point Tourist Road at the time, Council was unable to conclusively prove that the pollution was caused by Hansons. A review of that discharge point would be beneficial. I have included a map location of the discharge point for reference (in red).	The audit team have reviewed all water monitoring data and the specific discharge point in question, with no issues being identified. During the site walkover, the audit team identified an area near this location where improvements are to be made in managing sediment and erosion.

3.9 Complaints

There were 34 complaints made to BPQ during the audit period. This is noted in the Annual Review and Complaints Log available on the website. A summary of complaints during the audit period is provided in **Table 9**.

Table 9 – Number of Complaints since last IEA

Year	Total Complaints	Topic
2020	6	5 – Blasting – excessive ground vibrations 1 – Dust – quarry activities-
2021	21	10 – Blasting – excessive ground vibrations 4 – Transport – driver conduct 2 – Other (visual amenity and mud) 4 – Dust – quarry activities 1 – Dust – blasting
2022	6	3 – Blasting – excessive ground vibrations 1 – Transport – driver conduct 1 – Visual amenity 1 – Dust – quarry activities
2023	1	Noise – quarry activities
TOTAL	34	Main complaints: 18 – Blast 7 – Dust 5 – Transport

There were 34 complaints received during the audit period. In 2021 there were 21 complaints received, six in 2022 , and only one in 2023 to the time of the audit. The location of the quarry, and the close proximity to neighbouring residents indicates that BPQ is adaptive and makes appropriate changes to minimise conflict.

It should be noted that there are several ongoing construction developments occurring in the vicinity of the BPQ.

3.10 Incidents

Reportable incidents and non-compliances during the IEA period were outlined in the Annual Reviews and site records of investigation and reporting. A summary of these incidents is provided in **Table 10**. It should be noted that this only covers the non-compliances in the Audit period which is from 1 September 2020 to 6 September 2023. The Annual Reviews provide further details (including management of incident/non-compliances) relating to incidents/non-compliances.

Table 10 – Incidents and Non-Compliances within the IEA period (from Site Records)

Relevant Approval	Condition	Condition Summary	Compliance Status	Comment from BPQ
2020 Annual Review (within Audit period)				
08_0143	Schedule 3, Condition 14	Air Quality criteria over an averaging period of 24-hours and annual.	There was an exceedance of PM ₁₀ criterion (24 hour average)	The 24 hour average PM ₁₀ on 27 November 2020 was 64 µg/m ³ . It is believed that this is attributable to monitoring location PM10-2, which is in close proximity to offsite sources not associated with the Quarry.
08_0143	Schedule 3, Condition 6	Implementation of the approved noise management plan	Some of the listed ambient noise parameters were not monitored during the quarterly noise monitoring	Monitoring has been in accordance with parameters listed in MP08_0143, but not additional parameters listed within the noise and blast management plan. Hanson have requested that additional ambient noise parameters be recorded and acknowledged within each quarterly report.
08_0143	Schedule 3, Condition 24(a)	The site water balance audit must be completed each calendar year	A site water balance audit was not completed during the 2020 calendar year.	2020 Site Water Balance audit was not completed. Necessary infrastructure is not yet in place to enable the audit
08_0143	Schedule 3, Condition 40	Landscape Management Plan (Weed Management)	Failing to undertake weed management in accordance with the Landscape Management Plan	Weed management by contractor was unable to be completed due to COVID restrictions in the Shellharbour area.
08_0143	Schedule 5, Condition 5	Review and revisions of management plans, strategies, and programs	No evidence of review of management plans following lodgement of 2019 Annual Review nor following submission of incident reports.	Revision of management plans was ongoing during 2020. Several management plans are still outstanding and will be finalised for lodgement to DPIE in 2021.
2021 Annual Review				
08_0143	Schedule 3, Condition 29(d)	Heavy vehicles must have loads covered when entering or leaving site	Road trucks carrying quarry materials were dispatched from site without appropriate tarps/ covers.	The road trucks were carrying large-sized quarry materials (armour stone). These materials can legally be transported on public roads without load coverage, however, MP 08_0143 and the Transport Management Plan require that all loads be covered before exiting the Bass Point Quarry.
08_0143	Schedule 3, Condition 14	Air Quality criteria over an averaging period of 24-hours and annual.	There were multiple exceedances of PM ₁₀ criterion (24 hour average).	The 24 hour average PM ₁₀ on 25 February 2021, 03 March 2021, 09 March 2021, 27 April 2021, 02 June 2021, 09 July 2021, 02 October 2021, 26 October 2021 was greater than 50 µg/m ³ .
08_0143	Schedule 3, Condition 14	Air Quality criteria over an averaging period of 24-hours and annual.	There were multiple exceedances of PM ₁₀ criterion (annual average).	The annual average PM ₁₀ result for 2021 was 36 µg/m ³ . It is believed that this is attributable to two factors: • Results impacted by sources offsite and not associated with the Quarry • High Limit of Reporting for PM₁₀ data

Relevant Approval	Condition	Condition Summary	Compliance Status	Comment from BPQ
08_0143	Schedule 3, Condition 24(a)	The site water balance audit must be completed each calendar year	A site water balance audit was not completed during the 2021 calendar year.	Infrastructure to enable completion of an annual site water balance audit has not yet been installed.
2022 Annual Review				
08_0143	Schedule 3, Condition 7	Blasting on site must not cause exceedances of the stipulated Airblast overpressure and ground vibration criteria at any residence on privately owned land.	Blasting on site caused an exceedance of the stipulated Airblast overpressure criterion.	An Airblast overpressure result of 120.8 dBL was recorded at Monitoring Point B on 06 July 2022. This was equivalent to 2% of the total number of blasts over the reporting period, which is greater than the allowable exceedance criterion of 0%.
08_0143	Schedule 3, Condition 14	Particulate matter emissions must not exceed the stipulated criteria at any residence on privately owned land.	There was one instance where the 24-hour average PM ₁₀ criterion was exceeded.	The 24-hour average PM ₁₀ on 02 May 2022 was 51 µg/m ³ , which is greater than the 50 µg/m ³ criterion. The LVAS unit sampled for just under half of the 24 hour sampling period, thus yielding an erroneous sample that did not comply with sampling specifications and should be discarded.
08_0143	Schedule 2, Condition 8	Dispatch of trucks carrying quarry products or concrete from site must not exceed the stipulated limits.	There were two instances where the hourly laden truck dispatch limits were exceeded.	25 laden trucks were dispatched between 05:00 and 06:00 on 30 July 2022, 2 vehicles in excess of the stipulated limit of 23 laden trucks. 26 laden trucks were dispatched between 05:00 and 06:00 on 30 July 2022, 3 vehicles in excess of the stipulated limit of 23 laden trucks.
08_0143	Schedule 3, Condition 24 (b)	A program to monitor site discharge water quality.	There were 15 non compliances associated with surface water discharge.	There were 13 instances where the 100 percentile concentration limits for pH or TSS were exceeded. There was one instance of discharge via a non-licensed discharge point. There was one instance where a sample was not collected daily during discharge.
08_0143	Schedule 3, Condition 24 (a)	A site water balance audit must be completed each calendar year.	A site water balance audit was not completed during the 2022 calendar year.	Infrastructure to enable completion of an annual site water balance audit has not yet been installed.
2023 Incident Reports				
08_0143	Schedule 3, Condition 24 (b)	A program to monitor site discharge water quality.	Non-compliance with the surface water concentration limits.	Hanson believe that the pH exceedance on 24 February 2023 is attributable to breakdown of the acid dosing system. Hanson have attributed the TSS non-compliance on 05 April 2023 to organisational and human factors, specifically inadequate training processes and working outside of management approval.
EPA 2193	Schedule 3, Condition 14	Particulate matter emissions must not exceed the stipulated criteria at any residence on privately owned land.	There were two instances where the 24-hour average PM ₁₀ criterion was exceeded.	Hanson believe that the close proximity between the earthworks and PM10-2 has influenced monitoring results during March 2023, yielding elevated 24 hour PM ₁₀ results on all five sampling dates.

Relevant Approval	Condition	Condition Summary	Compliance Status	Comment from BPQ
				Note that only 09 March 2023 and 27 March 2023 constitute exceedances of the 24 hour criterion of 50 µg/m ³
08_0143	Schedule 3, Condition 16	A program to monitor air quality.	Air quality monitoring has not been completed in accordance with the approved air quality management plan.	Hanson have taken actions in the attempt to prevent any further vandalism of the DDG2.

The BPQ Annual Review provides an assessment of environmental performance that covers aspects including

- Noise;
- Blasting;
- Air Quality;
- Heritage;
- Transport;
- Water Management; and
- Rehabilitation and Landscape

These summaries are supported by specialist monitoring reports in the Appendices as required.

BPQ compared results in Annual Reviews against predicted environmental assessment impacts and IEMA is satisfied with how this information is being reported within the Annual Review.

3.11 Site Inspection

Chris Jones (Lead Auditor) and Simon Kirgis (Assistant Auditor) visited the site on 5-6 September to complete a site inspection and verify field components of the audit. Photographs from the site inspection are included as **Appendix B**.

IEMA found the areas to be generally well managed. Some improvement recommendations were made, and these have been provided in **Section 4**.

3.12 Site Interviews

Site interviews were held with a number of BPQ personnel during the audit site inspection (refer **Section 2.4**). Findings from these interviews found that:

- Site personnel generally had a good understanding of the environmental compliance
- Site personnel had good record keeping; and
- Site personnel had support from Quarry Management.

3.13 Previous Annual Review or Compliance Report Recommendations

All recommendations made by DPE in their review of the BPQ Annual Reviews are minor in nature and have been addressed by site in subsequent versions of the Annual Review.

3.14 Improvement Opportunities

Opportunities for Improvement are summarised in **Section 4.2**.

3.15 Key strengths

During the IEA there were several positive environmental management aspects that were observed, and were considered noteworthy:

- Minimal sediment or erosion issues across site;
- Good implementation of dust mitigation methods;
- Driver awareness along haul roads and onsite;
- Minimal topsoil exposed across site;
- Good vegetation cover across site with emerging native acacia species; and
- Storage of fine quarry product in the pit to minimise dust emissions.

4 RECOMMENDATIONS

4.1 Non Compliances

Table 11 outlines the recommendations made in relation to non-compliances during the audit. These are referred to as NC RECS.

Table 11 – Summary of Non-Compliance Recommendations

Aspect	Condition Reference	Non-Compliance REC Number	Recommendation
Transport of products	Schedule 2 Condition 8	NC – 001	No further recommendation
Noise Management Plan	Schedule 3 Condition 6	NC – 002	No further recommendation
Blasting	Schedule 3 Condition 7 EPL L3.2	NC – 003	Recommendation – Ensure all staff and contractors are appropriately trained and understand blast designs to minimise reoccurrence.
Blast Management Plan	Schedule 3 Condition 13	NC – 004	Recommendation – Ensure that all staff and contractors are appropriately trained and understand the blast designs to minimise reoccurrence. Ensure that all blasts are carried out in normal weather conditions as per the approved Management Plan. It is recommended the site develop some criteria for adverse weather conditions to ensure blasts do not occur.
Air Quality	Schedule 3 Condition 14	NC – 005	Recommendation – Site to get real time dust alarms operational again and record evidence of changing operations based on weather conditions and dust levels.
Air Quality Management Plan	Schedule 3 Condition 16	NC – 006	Recommendation – Hanson to look into a system that has real time air quality monitoring and predictive air quality modelling opportunities. There are systems on the market that can assist with day to day planning for dust management.
Water Pollution	Schedule 3 Condition 19 EPL L1.1	NC – 007	Recommendation – Hanson should ensure that adequate provisions are made to ensure all water is contained onsite and to minimise reoccurrence.
Storage of Chemicals and Petroleum products	Schedule 3 Condition 22 EPL O1.1	NC – 008	Recommendation – Ensure that all chemicals and hydrocarbons are stored in 110% bunds.
Site Water Balance	Schedule 3 Condition 24 (a)	NC – 009	Recommendation – Hanson to update the Site Water Balance - which is to include the audit and reporting procedures, including comparisons of the site water balance each calendar year.
Surface Water Management Plan	Schedule 3 Condition 24 (b) EPL L2.4 Statement of Commitments – Surface Water and Stormwater Management	NC – 010	Recommendation – Continue to look into ways to lower TSS. Liaise with planning and EPA if chemical flocculation is to be used.
Transport	Schedule 3 Condition 29	NC – 011	No further recommendation

Aspect	Condition Reference	Non-Compliance REC Number	Recommendation
Transport Management Plan	Schedule 3 Condition 33	NC – 012	Recommendation - Add letter of appointment as per condition (a) (Transport Management Plan) - liaise with planning. No further actions required for the implementation, as Hanson have already addressed these.
Environmental Management Strategy	Schedule 5 Condition 1	NC – 013	Recommendation – Hanson to ensure all detailed incident reporting is provided to DPE within 7 days.
Annual Review	Schedule 5 Condition 4	NC – 014	Recommendation – Hanson to ensure that all Annual Reviews are submitted to the Secretary by the end of March each year.
Requirement to monitor concentration of pollutants discharged	EPL M2.2	NC – 015	Recommendation – All missed samples should be notified to the EPA within 7 days as per Condition R2.2. While this missed sample may not have caused environmental harm, this timeframe is a used for reporting incidents or exceedances.

4.2 Opportunities for Improvement

Additional recommendations relating to compliant conditions or aspects identified in the field (not captured in **Table 9** above) are included within **Table 12**. These are referred to as Improvement Recommendations (IR).

Table 12 – Opportunities for Improvement

Aspect	Condition Reference	Improvement REC Number	Recommendation
Erosion and Sediment Control	Schedule 3, Condition 24 (b)	IR - 001	Improvement of Erosion and Sediment (Figure 2*) control of the eastern side of BPQ to include: • Construction of a Sediment Dam; • Connect Sediment Dam to drain for discharge; • Temporary sediment fence along northern fence line; and • Coir logs or similar along steep exposed banks to slow water flow until vegetation becomes established. • Compliant with 'Blue Book'
Meteorological Monitoring	Schedule 3, Condition 16	IR – 002	Improvement – Hanson to look into AWS/real time air review to assist with quarry operations.
Rehabilitation Objective	Schedule 3 Condition 38	IR – 003	Improvement – Future rehabilitation to include mix of native grass based on advice of seed specialist/coastal specialist.
Landscape Management Plan	Schedule 3, Condition 40	IR – 004	Improvement – Continued targeted weed management - especially around lantana and bitou bush. Incorporate a weed report from ISJO (or other contractors) highlighting spraying area/ operations/general weed management each month. Recommend a one page checklist to show summary of weed management that occurred.
Annual Review	Schedule 5 Condition 4	IR - 005	Improvement – include predictions against the EA in annual reviews
Storage of Chemicals and Petroleum products	Schedule 3 Condition 22	IR – 006	Improvement – Hanson to remove all unwanted/redundant items in the graveyard area. Ensure all items are correctly disposed of in licenced facilities

*Note that **Figure 2** is indicative only, and that further consultation with engineers will be required.



LEGEND

➔ Current Drainage Path

Order of Works

- 1: - - - Sediment Fence as Temporary Measure
- 2: ■ Potential Location of Sediment Dam
- 3: ➔ Dirty Water Drain as Permanent Feature
- 4: ● Works Needed to Connect Drain to Sediment Dam

0 10 20 30 40
Scale 1:11,000

GOA2020 MGAZone56
21/09/2023

Hanson - Bass Point Quarry

Additional engineering advice and design is required.
Structures in accordance with Blue Book Design

Erosion and Sediment Works - Northern Boundary



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Sheet Size: A3
Source: Nearmap Imagery - 22 July 2022, Elevation DEM - 2018(DPIE)

5 CONCLUSION

Integrated Environmental Management Australia (IEMA) was engaged by Hanson, to conduct an Independent Environmental Audit (IEA) of BPQ. The site encompasses a regionally significant basalt resource which is extracted and processed on site into a range of construction aggregate products such as Road Base and Fill. Products are also supplied to concrete batching plants for use in the construction industry. Located within the Shellharbour Local Government Area, BPQ lies between the coastal towns of Shellharbour and Kiama on the South Coast of NSW.

This IEA has been prepared to satisfy the requirements of the following approvals and guidelines:

- Project Approval MP 08_0143;
- EPL 2193 and
- Independent Audit Post Approval Requirements (DPE 2020).

The IEA covers the period from 1 September 2020 to 6 September 2023. The Department of Planning and Environment (DPE) endorsed the following IEA team in a letter dated 21 June 2023:

- Chris Jones as Lead Auditor;
- Simon Kirgis as Assistant Auditor; and
- Eliza Hill as Assistant Auditor

The audit team visited the site from 5-6 September 2023 to complete a site inspection and verify field components of the audit. Interviews were held with site personnel, who have a good understanding of environmental compliance, and also had the support from the Quarry Manager. During the site inspection, the audit team witnessed good dust control of the stockpiles, along with good driver behaviour and minimal sediment or erosion issues. The improvement recommendations that have been put forward are fairly minor in comparison to the size of the site, further indicating the level of compliance the site operates under.

A summary of the audit outcomes is provided in **Table 13**.

Table 13 – Audit Compliance Summary

Compliance Status	MP 08_0143	EPL 2193	SoC	Total
Compliant	50	35	14	99
Non-Compliant	15	5	1	21
Not triggered	17	14	10	41
Total	82	54	25	161

APPENDIX A

DPE
Letter of Endorsement

Ms Chelsea Flood
Supervisor Environment, Sustainability & Safety
Hanson Construction Materials Pty Ltd
Level 18
2-12 Macquarie Street
Parramatta NSW 2150

21/06/2023

Dear Ms Flood

**Bass Point Quarry (MP 08_0143)
Independent Environmental Audit 2023**

I refer to your request of 16 June 2023 seeking approval of Mr Chris Jones, Mr Simon Kirgis and Ms Eliza Hill of Integrated Environmental Management Australia (the audit team) for the upcoming Independent Environmental Audit of Bass Point Quarry (the development), in accordance with Schedule 5, Condition 9 of project approval MP 08_0143, as modified (the consent).

Having considered the qualifications and experience of the audit team, the Planning Secretary endorses the appointment of the audit team to undertake the audit in accordance with Schedule 5, Condition 9 of the approval. This approval is conditional on the audit team being independent of the development and maintaining certification as lead or principal auditors with a relevant industry body.

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

The audit is to be conducted in accordance with AS/NZS ISO 19011 Australian/New Zealand Standard: Guidelines for quality and/or environmental management systems auditing and you may wish to consider the Independent Audit Post Approval Requirements (Department 2020 or as updated). A copy of this guideline can be located at <http://planning.nsw.gov.au/Policy-and-Legislation/Mining-and-Resources/Integrated-Mining-Policy>.

The audit report is to include the following:

1. consultation with the relevant agencies;
2. a compliance table indicating the compliance status of each condition of approval and any relevant EPL;
3. not use the term "partial compliance";
4. recommend actions in response to non-compliances;
5. review the adequacy of plans and programs required under this consent; and
6. identify opportunities for improved environmental management and performance.

Within three months of the commissioning of this audit, Hanson is to submit a copy of the audit report to the Secretary, together with its response to any recommendations contained in the audit report and a timetable to implement the recommendations. Prior to submitting the audit report to the Secretary, it is recommended that Hanson review the report to ensure it complies with the relevant consent condition.

Failure to meet these requirements will require revision and resubmission of the Audit Report.

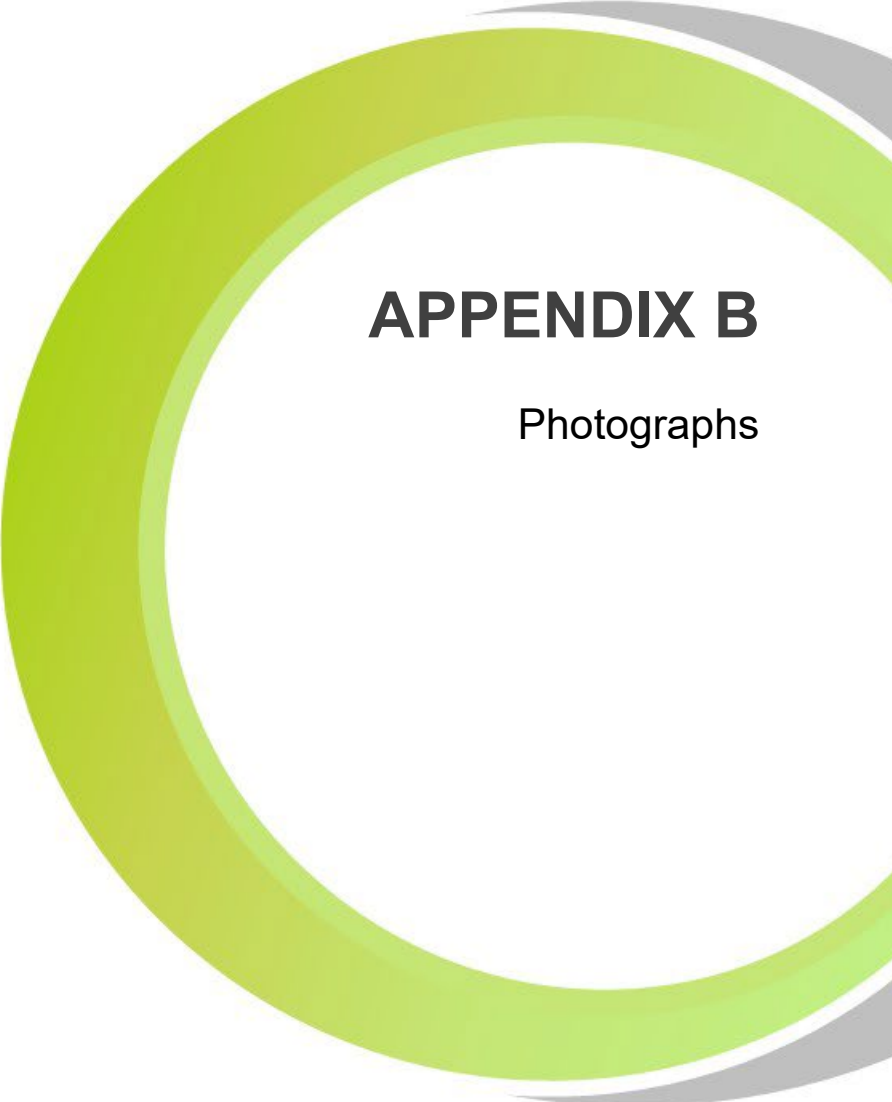
Should you have any enquiries in relation to this matter, please contact Georgia Dragicevic, Senior Compliance Officer, on (02) 4247 1852 or by email to Georgia.Dragicevic@planning.nsw.gov.au.

Yours sincerely

A handwritten signature in black ink, appearing to read "K. O'Reilly", enclosed in a light grey rectangular box.

Katrina O'Reilly
Team Leader - Compliance
Compliance

As nominee of the Planning Secretary



APPENDIX B

Photographs



Photo 1: Revegetated Southern Boundary of the Bass Point Site



Photo 2: Looking into the pit from Southern Side. Fine Products stored in this area away from the wind



Photo 3: Dust from stockpiles. Note watercarts filling up



Photo 4: Water cart deployed over stockpiles once dust was visible



Photo 5: Site has plenty of water for dust mitigation and operational needs



Photo 6: Empty IBC's located in the "Graveyard" Note that some of these contained acid



Photo 7 : Visible hydrocarbon leaks under old machinery in “Graveyard”



Photo 8: Full hydrocarbons not stored correctly in workshop



Photo 9: Most of the site is covered in exotic grasses



Photo 10: Lantana is a common weed across the site. Hanson has a weed program in place



Photo 11: New tubestock along steep overburden area on eastern side of site.



Photo 12: Minor rill erosion forming in overburden area on northern side of site. Note that a Sediment Dam and additional erosion control is recommended for this area.



Photo 13: Dust generated in the crusher process. Watercarts were deployed quickly once dust was noticed



Photo 14: Temporary ESC measures in place along eastern side of site near the emergency access gate.

APPENDIX C

Consultation

From: [Georgia Dragicevic](#)
To: [Simon Kirgis](#)
Cc: [Chris Jones](#); [Eliza Hill](#)
Subject: RE: Bass Point Quarry - IEA - Consultation with relevant agencies
Date: Sunday, 20 August 2023 10:43:04 PM
Attachments: [image001.jpg](#)

Hi Simon,

Thank you for consulting the department on the upcoming IEA for Bass Point Quarry.

In addition to the IEA consent condition requirement, please look into air, noise, traffic and water management.

Kind regards,
Georgia

From: Simon Kirgis <Simon.Kirgis@iema.com.au>
Sent: Thursday, 17 August 2023 3:34 PM
To: Georgia Dragicevic <Georgia.Dragicevic@planning.nsw.gov.au>
Cc: Chris Jones <chris.jones@iema.com.au>; Eliza Hill <eliza.hill@iema.com.au>
Subject: Bass Point Quarry - IEA - Consultation with relevant agencies

Hi Georgia,
IEMA has received endorsement to conduct the 2023 IEA for Hanson Bass Point Quarry. As part of the auditing requirement (Section 3.2 - Independent Audit, 2020) consultation with relevant agencies is required.

We believe that EPA and local Council should be consulted with, however, are there any other agencies that Planning feel we should consult with?

Is there any additional comments or questions from Planning regarding this audit?

IEMA will be auditing the period from 1 September 2020 – 31 August 2023.

Regards,

Simon Kirgis
Environmental Consultant

IEMA_Email_Sign_Off_fnl



ABN 32 622 237 870
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m: 0421 927 291 | w: www.iema.com.au

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From: [Jarryd Thomson](#)
To: [Simon Kirgis](#); [Chris Jones](#)
Cc: [Eliza Hill](#); [Chris Kelly](#)
Subject: RE: Bass Point Quarry IEA - Request for Consultation
Date: Tuesday, 29 August 2023 11:09:05 AM
Attachments: [image001.jpg](#)

Hi Simon and Chris

Thanks for meeting with Chris and I today to discuss the upcoming Independent Environmental Audit (IEA) on the Conditions of Approval to Bass Point Quarries (BPQ), PA 08_0143 being conducted by IEMA.

As discussed in the meeting, although the EPA does not currently have any major areas of concern with the operation at BPQ, we would recommend particular focus on the following aspects:

- Air quality impacts, particularly management and monitoring of dust generation
- Adequacy of and compliance with site surface water controls and discharges (particularly TSS and pH)
- Adequacy of controls for blasting and compliance with blast limits in their Environment Protection Licence

The EPA looks forward to reviewing the IEA report and findings. Feel free to contact me on (02) 4224 4143 if you would like to discuss this further.

Regards

Jarryd Thomson
Operations Officer
NSW Environment Protection Authority
D 02 4224 4143

NSW EPA logo



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The EPA acknowledges the traditional custodians of the land and waters where we work. As part of the world's oldest surviving culture, we pay our respect to Aboriginal elders past, present and emerging.

Report pollution and environmental incidents 131 555 or +61 2 9995 5555

From: Simon Kirgis <Simon.Kirgis@iema.com.au>
Sent: Monday, 21 August 2023 10:53 AM
To: Jarryd Thomson <jarryd.thomson@epa.nsw.gov.au>
Cc: Chris Jones <chris.jones@iema.com.au>; Eliza Hill <eliza.hill@iema.com.au>
Subject: Bass Point Quarry IEA - Request for Consultation

Good morning Jarryd,

IEMA have been engaged to conduct the 2023 Independent Environmental Audit (IEA) for Bass Point Quarries.

The IEA will be completed in accordance with Schedule 5, Condition 9 of Project Approval 08_0143, and will also include the Statement of Commitments and the Environment Protection Licence (EPL 2193.)

The audit will cover the three-year period from 1 September 2020 – till 31 August 2023

The approved audit team (letter attached) was endorsed by the Department of Planning, Industry and Environment (DPIE) on the 21/06/2023, and comprises:

- Chris Jones (Principal Environmental Consultant – IEMA) – Lead Auditor;
- Simon Kirgis (Consultant – IEMA) – Assistant Auditor; and
- Eliza Hill (Graduate Consultant – IEMA) – Assistant Auditor

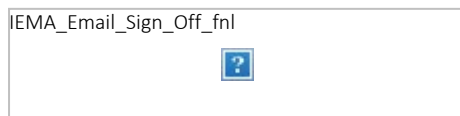
In accordance with condition (9b), the audit team is seeking feedback in relation to any specific environmental areas you require particular focus on as part of the IEA.

Chelsea Flood from Hanson (BPQ) has kindly provided your email address to facilitate this email.

If you could respond by **4 September**, it would be appreciated.

Many thanks,

Simon Kirgis
Environmental Consultant



ABN 32 622 237 870
PO Box 3161, MEREWETHER NSW 2291 AUSTRALIA
e: simon.kirgis@iema.com.au
m: 0421 927 291 | w: www.iema.com.au

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Any views expressed in this email are those of the individual sender except where the sender expressly and with authority states them to be the views of the Environment Protection Authority.

From: [Mark Miller](#)
To: [Simon Kirgis](#)
Subject: RE: Bass Point Quarry IEA - Request for Consultation
Date: Thursday, 24 August 2023 2:56:35 PM
Attachments: [image002.png](#)
[image003.png](#)
[image004.png](#)
[image005.png](#)
[image006.png](#)
[image007.png](#)
[image008.jpg](#)
[image009.jpg](#)
[image010.jpg](#)
[bp.jpg](#)

Good afternoon Simon,

Thank you for your email and consideration in the upcoming audit.

During the audit period, Council has raised a concern with the discharge of water or another substance from a discharge point located below the former lab.

Council conducted some testing, which disclosed some pollution in the form of petroleum based products. However, with the works that were being conducted on the Bass Point Tourist Road at the time, Council was unable to conclusively prove that the pollution was caused by Hansons.

A review of that discharge point would be beneficial. I have included a map / location of the discharge point for reference (in red).

Please let me know if I can assist further.

regards



Mark Miller | Manager Compliance and Regulation

Dharawal Country

76 Cygnet Avenue, Shellharbour City Centre, NSW 2529

 (02) 4221 6293  0490 336 956

 www.shellharbour.nsw.gov.au



From: Simon Kirgis <Simon.Kirgis@iema.com.au>
Sent: Monday, 21 August 2023 11:00 AM
To: Mark Miller <Mark.Miller@shellharbour.nsw.gov.au>
Cc: Chris Jones <chris.jones@iema.com.au>; Eliza Hill <eliza.hill@iema.com.au>
Subject: Bass Point Quarry IEA - Request for Consultation

Good morning Mark,

IEMA have been engaged to conduct the 2023 Independent Environmental Audit (IEA) for Bass Point Quarry.

The IEA will be completed in accordance with Schedule 5, Condition 9 of Project Approval 08_0143, and will also include the Statement of Commitments and the Environment Protection Licence (EPL 2193.)

The audit will cover the three-year period from 1 September 2020 – till 31 August 2023

The approved audit team (letter attached) was endorsed by the Department of Planning and Environment (DPE) on the 21/06/2023, and comprises:

- Chris Jones (Principal Environmental Consultant – IEMA) – Lead Auditor;
- Simon Kirgis (Consultant – IEMA) – Assistant Auditor; and
- Eliza Hill (Graduate Consultant – IEMA) – Assistant Auditor

In accordance with condition (9b), the audit team is seeking feedback in relation to any specific environmental areas you require particular focus on as part of the IEA.

Chelsea Flood from Hanson (BPQ) has kindly provided your email address to facilitate this email.

If you could respond by **4 September**, it would be appreciated.

Many thanks,

Simon Kirgis
Environmental Consultant

IEMA_Email_Sign_Off_fnl



ABN 32 622 237 870
PO Box 3161, MEREWETHER NSW 2291 AUSTRALIA
e: simon.kirgis@iema.com.au
m: 0421 927 291 | w: www.iema.com.au

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APPENDIX D

Declaration of Independence

Declaration of Independence - Auditor	
Project Name	Bass Point Quarry
Consent Number	MP 08_0143
Description of Project	Hard Rock Quarry (aggregate)
Project Address	Bass Point Quarry Rd, Shell Cove NSW 2529
Proponent	Hanson
Date	12/06/2023
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) 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 Auditor	Chris Jones
Signature	
Qualification	Principal Auditor (Environmental Management Systems Auditor) Exemplar Global
Company	IEMA

APPENDIX E

Compliance Spreadsheet

PA 08_0143 Hanson Construction Materials Pty Ltd

Audit Period: 1 September 2020 - 6 September 2023

Condition Number	Condition	Compliance	Source of Evidence	Finding	Recommended Action														
Administrative Condition - Schedule 2																			
1	In addition to meeting the specific performance criteria established under this approval, the Proponent must implement all reasonable and feasible measures to prevent and/or minimise any material harm to the environment that may result from the construction, operation, or rehabilitation of the project.	Compliant	Monitoring Data Annual Reviews Incident Reports	No evidence of material harm has occurred during reporting period. While there are multiple non-compliances for air, water and blasting, these are not classed as material harm to the environment. While a formal warning was given to the pollution of waters, this was not deemed to trigger the definition of material harm. POEO Act 1997, Section 147 Meaning of material harm to the environment 147 Meaning of material harm to the environment (1) For the purposes of this Part-- (a) harm to the environment is material if-- (i) it involves actual or potential harm to the health or safety of human beings or to ecosystems that is not trivial, or (ii) it results in actual or potential loss or property damage of an amount, or amounts in aggregate, exceeding \$10,000 (or such other amount as is prescribed by the regulations), and (b) loss includes the reasonable costs and expenses that would be incurred in taking all reasonable and practicable measures to prevent, mitigate or make good harm to the environment. (2) For the purposes of this Part, it does not matter that harm to the environment is caused only in the premises where the pollution incident occurs.															
2	The Proponent must carry out the project: (a) generally in accordance with the EA, EA (MOD 1), EA (MOD 2), Modification Report (Modification 4) and the project layout; and (b) in accordance with the statement of commitments and the conditions of this approval. Notes: •The project layout is shown in Appendix 1. • The statement of commitments is reproduced in Appendix 3.	Compliant	Multiple Management Plans Monitoring Data Annual Reviews	While there are non-compliances pertaining to the conditions of this approval, these are minor in nature, with no material harm caused during the reporting period. Hanson has a good understanding of all environmental management requirements under this approval, and as carrying out operations to the best of their abilities. All works appear to be conducted within the approval boundaries, and due diligence reports are carried out if necessary.															
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 approval shall prevail to the extent of any inconsistency.	Not Triggered		Noted.															
4	The Proponent must comply with any reasonable requirement/s of the Secretary arising from the Department's assessment of: (a) any strategies, plans, programs, reviews, audits, reports or correspondence that are submitted in accordance with this approval; and (b) the implementation of any actions or measures contained in these documents.	Not Triggered		PIN from DPE - mod approval for overburden. Mod 3 is required for southern area as above. Currently in for approval/rfi stage															
LIMITS ON APPROVAL																			
Quarry Operations																			
5	The Proponent may carry out quarrying operations on the site until 31 January 2044. Note: Under this approval, the Proponent is required to rehabilitate the site and carry out additional undertakings to the satisfaction of the Secretary. Consequently, this approval will continue to apply in all other respects other than the right to conduct quarrying operations until the rehabilitation of the site and those undertakings have been carried out to a satisfactory standard.	Compliant		IEA took place in 2023. Outside audit period.															
Staged Extraction																			
6	The Proponent must not carry out quarrying operations: (a) below 0 m AHD without prior written approval from the Secretary under condition 23 of Schedule 3; and (b) below - 40 m AHD at any stage of the project. Note: This condition does not apply to the construction of any monitoring bores or drill holes.	Not Triggered	Survey records.	Hanson is still operating within Stage 1 limits. No evidence of quarry operations occurring below RL 0															
Extractive Material Transport																			
7	The Proponent must not permit to be transported from the site: (a) more than 4 million tonnes of quarry products in any calendar year; or (b) more than 3 million tonnes of quarry products by road in any calendar year.	Compliant	Annual Reviews Transport Data	2020 - 2,002,140 tonnes (total year) 2021 - 1,772,174 tonnes 2022 - 2,008,234 tonnes 2023 (Till 31 August) - 980,428 tonnes to June 2023.															
Transport of Products																			
8	The Proponent must limit the dispatch of trucks carrying quarry products or concrete from the site to the levels shown in Table 1. <table><tr><th colspan="2">Laden Truck Dispatch Hours</th></tr><tr><th>Period</th><th>Maximum Laden Truck Dispatch</th></tr><tr><td>7 am – 10 pm</td><td>40 in any hour</td></tr><tr><td>10 pm – 7 am</td><td>23 in any hour</td></tr><tr><td>5 AM – 6 AM (Monday to Friday only and excluding Public Holidays)</td><td>21</td></tr><tr><td>6 am – 7am (Monday to Friday only and excluding Public Holidays)</td><td>35</td></tr><tr><td>24 hour continuous day</td><td>100</td></tr></table>	Laden Truck Dispatch Hours		Period	Maximum Laden Truck Dispatch	7 am – 10 pm	40 in any hour	10 pm – 7 am	23 in any hour	5 AM – 6 AM (Monday to Friday only and excluding Public Holidays)	21	6 am – 7am (Monday to Friday only and excluding Public Holidays)	35	24 hour continuous day	100	Non-Compliant	Annual Reviews Transport Data	2020- compliant based on AR/Transport Data review 2021- compliant based on AR/Transport Data review 2022- Non Compliant - 30/07/2022 (see below) 2023 - Compliant to date 5-6am - 25 laden trucks were dispatched. Prevailing hourly limit at this time is 23. 6-7am - 26 laden trucks were dispatched. Prevailing hourly limit at this time is 23. Hanson has an electronic system to assist in the dispatch of trucks to ensure future compliance. This system counts all trucks out. No further recommendations required.	NC-001 No further recommendations.
Laden Truck Dispatch Hours																			
Period	Maximum Laden Truck Dispatch																		
7 am – 10 pm	40 in any hour																		
10 pm – 7 am	23 in any hour																		
5 AM – 6 AM (Monday to Friday only and excluding Public Holidays)	21																		
6 am – 7am (Monday to Friday only and excluding Public Holidays)	35																		
24 hour continuous day	100																		
SURRENDER OF CONSENTS																			
9	By the end of June 2014, or as otherwise agreed by the Secretary, the Proponent must surrender all development consents for existing operations on the site in accordance with Section 104A of the EP&A Act. Note: The conditions or other requirements of this project approval do not prevent the continued carrying out of development which may be undertaken pursuant to DA 81/79 and DA 79/81am, prior to the surrender of those consents.	Compliant		Outside audit period. Consents surrendered.															
STRUCTURAL ADEQUACY																			

Condition Number	Condition	Compliance	Source of Evidence	Finding	Recommended Action
10	The Proponent must ensure that any new buildings and structures, and any alterations, or additions to existing buildings and structures, are constructed in accordance with the relevant requirements of the BCA. Notes: ♦Under Part 4A of the EP&A Act, the Proponent is required to obtain construction and occupation certificates for the proposed building works. ♦Part 8 of the EP&A Regulation sets out the requirements for the certification of the project.	Not Triggered	Site communications	Based on site communications, there has been no new buildings during audit period.	
DEMOLITION					
11	The Proponent must ensure that all demolition work on site is carried out in accordance with <i>AS 2601-2001: The Demolition of Structures</i> , or its latest version.	Compliant	2022 Construction logbook Demolition Asbestos Agreement	Hanson commissioned a contractor during the 2022 period to undertake demolition works of building which contained asbestos materials. This agreement contained SWMS, staff inductions, use of water carts, preparation of decontamination zones and removal of materials from site.	
PROTECTION OF PUBLIC INFRASTRUCTURE					
12	The Proponent must: (a) repair, or pay the full costs associated with repairing, any public infrastructure that is damaged by the project; and (b) relocate, or pay the full costs associated with relocating, any public infrastructure that needs to be relocated as a result of the project. Note: This condition does not apply to any damage to roads caused as a result of general road usage.	Not Triggered	Site communications	Based on site communications, this has not been triggered.	
ROAD MAINTENANCE					
13	During the life of the project, for each calendar year, the Proponent must pay Council a monetary contribution for each tonne of quarry product transported from the site on roads for which Council is liable for road maintenance funding. Each payment must be: (a) based on the approved rate as calculated under condition 14 below; (b) based on weighbridge records of the quantity of quarry products transported from the site; (c) paid by the date required by the invoice issued by Council; and (d) increased over the life of the project in accordance with the CPI.	Compliant	Evidence of monetary council contributions	Hanson has provided sufficient evidence that monetary council contributions have been made throughout the audit period.	
14	By 31 May 2014, the Proponent shall submit in writing to Council a proposed road maintenance contributions rate for the project, based on the: (a) sections of Buckleys Road and Dunmore Road and associated intersections to be used by trucks transporting quarry products from the site;+B17 (b) proportion of project-related trucks in the total trucks using these roads and intersections; (c) projected maintenance requirements for these roads and intersections for the life of the project; and (d) value of other works-in-kind proposed to be undertaken by the Proponent, such as the donation of road base material to be used in maintenance of these roads and intersections. Within 28 days of receiving Council's submission on the proposed contributions rate, the Proponent must submit to the Secretary for consideration its proposed contributions rate, which includes justification for the proposed rate taking into consideration Council's submission. Following receipt of the Proponent's proposed contributions rate, the Secretary shall, in consultation with the Proponent and Council, determine the contributions rate to be applied for the project.	Not Triggered		Verified in previous audits - 08/07/2016. Outside of auditing period.	
OPERATION OF PLANT AND EQUIPMENT					
15	The Proponent must ensure that all plant and equipment used at the site, or in connection with the project is: (a) maintained in a proper and efficient condition; and (b) operated in a proper and efficient manner.	Compliant		Based on inspection, the site was generally maintained in an appropriate manner. Minor adjustments were made to the plant sprinklers when operating in windy conditions.	
COMPLIANCE					
16	The Proponent must ensure that all employees, contractors and sub-contractors are aware of, and comply with, the conditions of this approval relevant to their respective activities.	Compliant	Inductions Transport Management Plan Toolbox Talks	Evidence of toolbox talks provided in morning debriefs.	
PRODUCTION DATA					
17	The Proponent must: (a) provide annual quarry production data to DRG using the standard form for that purpose; and (b) include a copy of this data in the Annual Review (see condition 4 of Schedule 5).	Compliant	Annual Reviews	Production and transport data is included in the Annual Reviews.	
APPLICABILITY OF GUIDELIN					
18	References in the conditions of this consent to any guideline, protocol, Australian Standard or policy are to such guidelines, protocols, Standards or policies in the form they are in as at the date of this consent.	Compliant		Noted.	
19	However, consistent with the conditions of this consent and without altering any limits or criteria in this consent, the Planning Secretary may, when issuing directions under this consent in respect of ongoing monitoring and management obligations, require compliance with an updated or revised version of such a guideline, protocol, Standard or policy, or a replacement of them.	Compliant		Based on site communications, compliant.	
Environmental Performance Conditions - Schedule 3					
1	Prior to carrying out quarrying operations under this approval, the Proponent must: (a) engage a registered surveyor to mark out the boundaries of the approved limits of extraction within the Extraction Areas; and (b) submit a survey plan of these boundaries to the Secretary.	Compliant		Verified in previous audits.	
2	While ever quarrying operations are being carried out, the Proponent must ensure that these boundaries are clearly marked at all times in a permanent manner that allows operating staff and inspecting officers to clearly identify the limits of extraction within the Extraction Areas.	Compliant	Makers Survey records	Evidence of markers and defined limits. Noted survey records.	
NOISE					
Noise Criteria					

Condition Number	Condition	Compliance	Source of Evidence	Finding	Recommended Action																																															
3	The Proponent must ensure that the noise generated by the project (not including transport of quarry products or concrete along the Bass Point Quarry Road) does not exceed the criteria in Table 2 at any residence on privately-owned land. <table><caption>Table 2: Noise criteria dBA</caption><thead><tr><th rowspan="2">Location</th><th>Day/Evening</th><th colspan="2">Night</th></tr><tr><th>L_{avg}(15 min)</th><th>L_{avg}(15 min)</th><th>L_A(1 min)</th></tr></thead><tbody><tr><td>R4</td><td>44</td><td>44</td><td>54</td></tr><tr><td>R5</td><td>45</td><td>45</td><td>55</td></tr><tr><td>R6</td><td>42</td><td>42</td><td>52</td></tr><tr><td>R7</td><td>41</td><td>41</td><td>51</td></tr><tr><td>R8</td><td>35</td><td>35</td><td>45</td></tr><tr><td>R9</td><td>35</td><td>35</td><td>45</td></tr><tr><td>R11</td><td>45</td><td>45</td><td>55</td></tr><tr><td>R12</td><td>45</td><td>45</td><td>55</td></tr><tr><td>Any residential property within the Shell Harbour Marina Precinct</td><td>48</td><td>48</td><td>58</td></tr><tr><td>Shell Cove Primary School (when in use)</td><td>L_{avg} (1 hour) 40 (internal)</td><td colspan="2">Not applicable</td></tr></tbody></table> Notes: - Receiver locations are shown in Figure 2 in Appendix 2. - After the first review on any EPL granted for this development under Section 78 of the POEO Act, nothing in this approval prevents the EPA from imposing stricter noise limits on the quarrying operations on site under the EPL. Noise generated by the project does not exceed the relevant requirements of the NSW Industrial Noise Policy. Appendix 6 sets out the meteorological conditions under which these criteria apply, and the requirements for evaluating compliance with these criteria. However, these criteria do not apply if the Proponent has a written agreement with the relevant landowner to exceed the criteria, and the Proponent has advised the Department in writing of the terms of this agreement.	Location	Day/Evening	Night		L _{avg} (15 min)	L _{avg} (15 min)	L _A (1 min)	R4	44	44	54	R5	45	45	55	R6	42	42	52	R7	41	41	51	R8	35	35	45	R9	35	35	45	R11	45	45	55	R12	45	45	55	Any residential property within the Shell Harbour Marina Precinct	48	48	58	Shell Cove Primary School (when in use)	L _{avg} (1 hour) 40 (internal)	Not applicable		Compliant	Environmental Noise Compliance Assessment Bass Point Quarry 2020-2023 (Harwood Acoustics)	2020 (1Sept onwards) - Compliant based on noise monitoring results 2021 - Compliant based on noise monitoring results 2022 - Compliant based on noise monitoring result 2023 (Till 31 August) - Compliant based on noise monitoring result A review of the Monitoring Reports throughout the audit period revealed that during night time sampling, the quarry was not audible, or was below the required noise limits. General neighbourhood/traffic and ocean noise was the main source of noise generated. On the few occasions that quarry operations could be heard, the noise generated was detailed as a faint hum.	
Location	Day/Evening		Night																																																	
	L _{avg} (15 min)	L _{avg} (15 min)	L _A (1 min)																																																	
R4	44	44	54																																																	
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Shell Cove Primary School (when in use)	L _{avg} (1 hour) 40 (internal)	Not applicable																																																		
Construction Hours																																																				
4	The Proponent must only carry out construction activities on site between 7 am and 6 pm Monday to Friday and 8 am and 1 pm Saturday. No construction activities are allowed on Sundays or public holidays, or at any other time without the written approval of the Secretary.	Compliant	Demolition log books	All demolition that occurred during 2022 occurred within the approved times of the consent. Based on site communications, this was the only construction related works that occurred during the audit period.																																																
Operating Conditions																																																				
5	The Proponent must: (a) implement best management practice to minimise the construction, operational and transport noise of the project; (b) minimise the noise impacts of the project during meteorological conditions when the noise limits in this approval do not apply; (c) maintain the effectiveness of any noise suppression equipment on plant at all times and ensure defective plant is not used operationally until fully repaired; and (d) regularly assess noise monitoring data and relocate, modify, and/or stop operations on site to ensure compliance with the relevant conditions of this approval, to the satisfaction of the Secretary.	Compliant	Noise and Blast Management Plan Site Communications	a) Section 3 - Noise Management Measures b) Section 3.2 - Site Procedures c) Section 3.3 Plant Equipment d) Section 4.0 - Monitoring Data Compliant on noise limits for audit period; Evidence of enclosed processing plant; and Overall, the site is well managed for noise in relation to close proximity to town.																																																
Noise Management Plan																																																				
6	The Proponent must prepare a Noise Management Plan for the project to the satisfaction of the Secretary. This plan must: (a) be prepared in consultation with the EPA, and submitted to the Secretary for approval by 31 May 2014; (b) describe the measures that would be implemented to ensure: best management practice is being employed to minimise the construction, operational and transport noise of the project; ♦ the noise impacts of the project are minimised during any meteorological conditions when the noise limits in this approval do not apply, and compliance with the relevant conditions of this approval; (c) describe the proposed noise management system in detail; and (d) include a monitoring program that: ♦ is capable of regularly evaluating the performance of the project, including noisy individual items of plant, such as haulage trucks, crushers and bulldozers; ♦ includes a protocol for determining any exceedances of the relevant conditions in this approval at locations listed in Table 2; and ♦ evaluates and reports on the effectiveness of the noise management system on site. The Proponent must implement the approved management plan as approved from time to time by the Secretary.	Non-Compliant	Annual Reviews Monitoring results Noise and Blast Management Plan (2020)	Preparation: a) outside reporting period b) Section 3 - Noise Management Plan c) Not covered in Noise Management Plan d) Section 4 - Noise Management Plan Implementation: Detailed in 2020 Annual Review. Non- Compliance - Some of the listed ambient noise parameters were not monitored during quarterly noise monitoring as detailed in the 2020 Annual Review. Hanson have addressed this, and additional ambient noise parameters are recorded. Non-Compliant on the Implementation of the Noise Management Plan. Section 4.2 - Noise Management Plan During the Q3/Q4 2020 noise monitoring the overall levels of ambient noise (i.e. LAmax, LA1, LA10, LA50, LA90, LA99, LAmin) were not reported on. This is non-compliant as the site did not complete monitoring as per section 4.2) These are currently being monitored. Note - This Management Plan has since been updated (dated Sept 2022) on the 21/09/2023 and the requirement for ambient noise (i.e. LAmax, LA1, LA10, LA50, LA90, LA99, LAmin) has been removed from section 4.2. No further recommendation needed.	NC - 002 No further recommendations.																																															
BLASTING																																																				
Blasting																																																				
7	The Proponent must ensure that blasting on the site does not cause exceedances of the criteria in Table 3. <table><caption>Table 3: Blasting criteria</caption><thead><tr><th>Location</th><th>Airblast overpressure (dB(Lin Peak))</th><th>Ground vibration (mm/s)</th><th>Allowable exceedance</th></tr></thead><tbody><tr><td></td><td>120</td><td>10</td><td>0%</td></tr><tr><td>Any residence on privately owned land</td><td>115</td><td>5</td><td>5% of the total number of blasts over a period of 12 months</td></tr></tbody></table> However, these criteria do not apply if the Proponent has a written agreement with the relevant residential owner or infrastructure provider/owner, and the Proponent has advised the Department in writing of the terms of this agreement.	Location	Airblast overpressure (dB(Lin Peak))	Ground vibration (mm/s)	Allowable exceedance		120	10	0%	Any residence on privately owned land	115	5	5% of the total number of blasts over a period of 12 months	Non-Compliant		2020 (1 Sept onwards) - Compliant based on Blast records 2021 - Compliant based on Blast records 2022 - Non Compliant - 06/07/2022 (see below) 2023 - Compliant (Till 31 August) - Compliant based on Blast records (till 18/08/2023) (See below). Airblast overpressure result of 120.8 dBL was recorded at Monitoring Point B on 06 July 2022 which is above the allowable limit. 2023 - 18/08/2023 - Airblast Overpressure result of 118.8 dBL was recorded at Monitoring Point B. Hanson reported that the wind speed at the time of the blast was 54 km/h. At the time fo the audit, this recording was below the 12 month (calender year) 5% allowable exceedance, and is therefore compliant.	NC - 003 Recommendation - ensure all staff and contractors are appropriately trained and understand blast designs to minimise reoccurrence.																																			
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Any residence on privately owned land	115	5	5% of the total number of blasts over a period of 12 months																																																	
Blasting Hours																																																				
8	The Proponent must carry out blasting on site only between 8 am and 5 pm, Monday to Friday. No blasting is allowed on weekends or public holidays, or at any other time without the written approval of the Secretary.	Compliant	Blast monitoring records	2020 (1 Sept onwards) - Compliant based on Blast records 2021 - Compliant based on Blast records 2022 - Compliant based on Blast records 2023 (Till 31 August) - Compliant based on Blast records (till 18/08/2023) All blasts have occurred within allowed timeframe.																																																
Blasting Frequency																																																				

Condition Number	Condition	Compliance	Source of Evidence	Finding	Recommended Action
9	The Proponent must not carry out more than 1 blast a day on site, unless an additional blast is required following a blast misfire. Note: A blast may involve a number of explosions within a short period, typically less than two minutes.	Compliant	Blast monitoring records	2020 (1 Sept onwards) - Compliant based on Blast records 2021 - Compliant based on Blast records 2022 - Compliant based on Blast records 2023 (Till 31 August) - Compliant based on Blast records (till 18/08/2023).	
Property Inspections					
10	If the Proponent receives a written request from the owner of any privately-owned land within 500 m of proposed blasting for a property inspection to establish the baseline condition of any buildings and/or structures on his/her land, then within 2 months of receiving this request the Proponent must: (a) commission a suitably qualified, experienced and independent person, whose appointment has been approved by the Secretary, to: •establish the baseline condition of any buildings and/or structures on the land, or update the previous property inspection report; and •identify any measures that should be implemented to minimise the potential blasting impacts of the project on these buildings and/or structures; and (b) give the landowner a copy of the new or updated property inspection report.	Not Triggered		Based on site communications, not triggered.	
Property Investigations					
11	If the owner of any privately-owned land claims that the buildings and/or structures on his/her land have been damaged as a result of blasting on site, then within 2 months of receiving this claim in writing from the landowner the Proponent must: (a) commission a suitably qualified, experienced and independent person, whose appointment is acceptable to both parties, to investigate the claim; and (b) give the landowner a copy of the property investigation report. If this independent property investigation confirms the landowner's claim, and both parties agree with these findings, then the Proponent must repair the damage to the satisfaction of the Secretary. If the Proponent or landowner disagrees with the findings of the independent property investigation, then either party may refer the matter to the Secretary for resolution.	Compliant	Property inspection reports Correspondence with stakeholders	During the audit period, Hanson received three requests from nearby property owners for property inspections; • 09/09/2020 • 30/04/2021 • 06/12/2021 The findings from these reports indicate that Hanson was not the source of damages.	
Operating Conditions					
12	During blasting operations, the Proponent must: (a) implement best management practice to: •protect the safety of people in the surrounding area; • protect public or private infrastructure/property in the surrounding area from any damage; and • minimise the dust and fume emissions of any blasting; and (b) operate a suitable system to enable the public to get up-to-date information on the proposed blasting Schedule on site, to the satisfaction of the Secretary.	Compliant	Noise and Blast Management Plan (2020)	Section 8.0 - Blast Fume Emissions Appendix D - Airblast and Ground Vibration Monitoring Checklist (2020) which details where sentries will be positioned to restrict public access. b) Section 7.5	
Blast Management Plan					
13	The Proponent must prepare a Blast Management Plan for the project to the satisfaction of the Secretary. This plan must: (a) be prepared in consultation with the EPA, and be submitted to the Secretary for approval by 31 May 2014; (b) describe the measures that would be implemented to ensure: •best management practice is being employed; and •compliance with the relevant conditions of this approval; (c) include a specific blast fume management protocol to demonstrate how emissions will be minimised, including risk management strategies if blast fumes are generated; and (d) include a monitoring program for evaluating the performance of the project including •compliance with the applicable criteria; and •minimising fume emissions from the site. The Proponent must implement the approved management plan as approved from time to time by the Secretary.	Non-Compliant	Noise and Blast Management Plan (2020)	Preparation a) outside audit period b) Section 7, Section 8 and Appendix D c) Section 8.0 - Blast Fume Emissions d) Section 7 - Blast Monitoring Program Non-Compliant of the Implementation of the Blast Management Plan Based on site communications, the Overpressure blast in 2022 (120.8dBL) was a result of poor blast design. "The exceedance of Airblast overpressure at Monitoring Point B on 06 July 2022 is attributable to blast design, in combination with prevailing weather conditions. The blast was designed with a reduced stemming height of 2.6 m in order to improve fragmentation of the geological 'capping layer'. However, the reduced stemming height was outside of the approved range of stemming heights for the Bass Point Quarry". 2023 - 18/08/2023 - Airblast Overpressure result of 118.8 dBL was recorded at Monitoring Point B. Hanson reported that the wind speed at the time of the blast was 54 km/h. While this is an exceedance over the consent requirement, at the time of the audit, this blast was below the 5% allowable exceedance and therefore deemed compliant. Section 8.1 of the Blast Management Plan states "In excessive wind events (i.e. prolonged visual dust in a particular area or following receipt of dust monitoring results in exceedance of the dust criteria), blasting activities will be temporarily halted and resumed only when weather conditions have improved following an appropriate assessment of weather conditions"	NC - 004 Recommendation – ensure that all staff and contractors are appropriately trained and understand the blast designs to minimise reoccurrence. Ensure that all blasts are carried out in normal weather conditions as per the approved Management Plan. It is recommended the site develop some criteria for adverse weather conditions to ensure blasts do not occur.
AIR QUALITY					
Air Quality					

Condition Number	Condition	Compliance	Source of Evidence	Finding	Recommended Action																							
14	The Proponent must ensure that all reasonable and feasible avoidance and mitigation measures are employed so that particulate matter emissions generated by the project do not exceed the criteria in Tables 4 to 6 at any residence on privately-owned land. Table 4: Long-Term Impact Assessment Criteria for Particulate Matter <table><tr><th>Pollutant</th><th>Averaging period</th><th>^d Criterion</th></tr><tr><td>Total suspended particulates (TSP)</td><td>Annual</td><td>≤ 90 µg/m³</td></tr><tr><td>Particulate matter < 10 µm (PM₁₀)</td><td>Annual</td><td>≤ 30 µg/m³</td></tr></table> Table 5: Short-Term Impact Assessment Criteria for Particulate Matter <table><tr><th>Pollutant</th><th>Averaging period</th><th>^d Criterion</th></tr><tr><td>Particulate matter < 10 µm (PM₁₀)</td><td>24 hour</td><td>≤ 50 µg/m³</td></tr></table> Table 6: Long-Term Impact Assessment Criteria for Deposited Dust <table><tr><th>Pollutant</th><th>Averaging period</th><th>Maximum increase in deposited dust level</th><th>Maximum total deposited dust level</th></tr><tr><td>^e Deposited dust</td><td>Annual</td><td>≤ 2 g/m²/month</td><td>≤ 4 g/m²/month</td></tr></table> Notes to Tables 4-6: ^a Total impact (i.e. incremental increase in concentrations due to the project plus background concentrations due to all other sources). ^b Incremental impact (i.e. incremental increase in concentrations due to the project on its own). ^c Deposited dust is to be assessed as insoluble solids as defined by Standards Australia, AS/NZS 3580.10.1:2003: Methods for Sampling and Analysis of Ambient Air - Determination of Particulate Matter - Deposited Matter - Gravimetric Method. ^d Excludes extraordinary events such as bushfires, prescribed burning, dust storms, sea fog, fire incidents, illegal activities or any other activity agreed by the Secretary in consultation with EPA.	Pollutant	Averaging period	^d Criterion	Total suspended particulates (TSP)	Annual	≤ 90 µg/m ³	Particulate matter < 10 µm (PM ₁₀)	Annual	≤ 30 µg/m ³	Pollutant	Averaging period	^d Criterion	Particulate matter < 10 µm (PM ₁₀)	24 hour	≤ 50 µg/m ³	Pollutant	Averaging period	Maximum increase in deposited dust level	Maximum total deposited dust level	^e Deposited dust	Annual	≤ 2 g/m ² /month	≤ 4 g/m ² /month	Non-Compliant	2021 and 2022 Annual Review Air Quality data Air Quality Management Plan	Dust exceedances in the LVAS (pm10) can only be determined every 6 days, hence there is no possibility of changing operations based in dust levels. There were eight instances where the 24 hour average PM10 recorded at monitoring point PM10-2 was greater than the 50 µg/m3 25/02/2021 - The 24 hour average PM10 was 56 µg/m3, which is greater than the 50µg/m3 criterion. . 03/03/2021 - The 24 hour average PM10 was 51 µg/m3, which is greater than the 50 µg/m3 criterion. 09/03/2021 - The 24 hour average PM10 was 80 µg/m3, which is greater than the 50 µg/m3 criterion. 27/04/2021 - The 24 hour average PM10 was 69 µg/m3, which is greater than the 50 µg/m3 criterion. 02/06/2021 - The 24 hour average PM10 was 59 µg/m3, which is greater than the 50 µg/m3 criterion. 09/07/2021 - The 24 hour average PM10 was 55 µg/m3, which is greater than the 50 µg/m3 criterion. 02/10/2021 - The 24 hour average PM10 was 72 µg/m3, which is greater than the 50 µg/m3 criterion. 26/10/2021 - The 24 hour average PM10 was 68 µg/m3, which is greater than the 50 µg/m3 criterion. 2021 - The annual average PM10 result was 36 µg/m3; above the annual average criterion of 30 µg/m3. Hanson - Results impacted by sources offsite and not associated with the quarry. It is believed that PM10 results may have been impacted by adjacent significant earthworks. 02/05/2022 - The 24-hour average PM10 was 51 µg/m3, which is greater than the 50 µg/m3 criterion. Site has stopped getting air quality alarms from air quality supplier.	NC - 005 Recommendation - •Site to get real time dust alarms operational again and record evidence of changing operations based on weather conditions and dust levels.
Pollutant	Averaging period	^d Criterion																										
Total suspended particulates (TSP)	Annual	≤ 90 µg/m ³																										
Particulate matter < 10 µm (PM ₁₀)	Annual	≤ 30 µg/m ³																										
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^e Deposited dust	Annual	≤ 2 g/m ² /month	≤ 4 g/m ² /month																									
Operating Conditions																												
15	The Proponent must: (a) implement best management practice to minimise the dust and fume emissions of the project; (b) regularly assess meteorological and air quality monitoring data and relocate, modify, and/or stop operations on site as may be required to ensure compliance with the relevant conditions of this approval; (c) minimise the air quality impacts of the project during adverse meteorological conditions and extraordinary events (see Note d to Tables 4-6 above); (d) minimise any visible off-site air pollution; and (e) minimise surface disturbance of the site, other than as permitted under this approval, to the satisfaction of the Secretary.	Compliant	Air Quality Management Plan Annual Reviews Watercart operations Pre-start inspection forms	a) Section 9 - Air Quality Management Plan; b) Section 7-9 - Air Quality Management Plan; c) Section 7-10 - Air Quality Management Plan; d) Section 8-9 - Air Quality Management Plan; and e) Section 9 - Air Quality Management Plan. Implementation Watercart logs for audit period Site inspections noted use of water carts, water sprays and enclosed crushers.																								
Air Quality Management Plan																												
16	The Proponent must prepare an Air Quality Management Plan for the project to the satisfaction of the Secretary. This plan must: (a) be prepared in consultation with the EPA, and submitted to the Secretary for approval by 31 May 2014; (b) describe the measures that would be implemented to ensure: • best management practice is employed; • the air quality impacts of the project are minimised during adverse meteorological conditions and extraordinary events; and • compliance with the relevant conditions of this approval; (c) describe the proposed air quality management system based on the preparation of a site-specific best management practice determination and reactive dust management strategy; and (d) include an air quality monitoring program that: • is capable of evaluating the performance of the project; • includes a protocol for determining any exceedances of the relevant conditions of approval; • adequately supports the air quality management system; and • evaluates and reports on the adequacy of the air quality management system The Proponent must implement the approved management plan as approved from time to time by the Secretary.	Non-Compliant	Annual Reviews Air Quality Management Plan	<u>Preparation</u> a) Section 2.3 Details consultation of Management Plan; b) Air Quality Management Plan; c) Section 7-10 ;and d) Section 8. <u>Implementation</u> Self reported in 2021 Annual Review - the Low Volume Air Sampler (LVAS) was not available for sampling from 16 February 2020 to 18 April 2020 due to maintenance. A backup LVAS unit was available but malfunctioned, such that there were no LVAS units available to undertake monitoring in accordance with the Air Quality Management Plan. It is understood that failure was due to power supply. Hanson has switched LVAS to solar to help reduce battery failures, which appears to have reduced outages occurring. •Evidence of street sweeper cleans on roads to minimise track-out of materials onto public roads •During site inspections - watercart was used of haul roads and stockpiles. •Hanson has switched LVAS to solar to help reduce battery failures. •Based on site communications, site is looking into additional dust suppression sprays and dust extractor to improve air quality.	NC - 006 Recommendation - Continue to look into dust suppression products, sprays or other mitigation methods in particular around the crushing areas.																							
METEOROLOGICAL MONITORING																												
17	For the life of the project, the Proponent must ensure that there is a suitable meteorological station operating in the vicinity of the site that: (a) complies with the requirements in the Approved Methods for Sampling of Air Pollutants in New South Wales guideline; and (b) is capable of continuous real-time measurement of temperature lapse rate, in accordance with the NSW Industrial Noise Policy, or as otherwise approved by EPA.	Compliant	Air Quality Management Plan Annual Review 2020-2022 Meteorological Data	Site received meteorological data from Automatic Weather Station (AWS) at Kiama. AWS is approximately 5.5km from site. This location has been approved in the AQMP.	IR - 002 Improvement - Hanson to look into a system that has real time air quality monitoring and predictive air quality modelling opportunities. There are systems on the market that can assist with day to day planning for dust management.																							
SOIL & WATER																												
Water Supply																												
18	The Proponent must ensure that it has sufficient water for all stages of the project, and if necessary, adjust the scale of quarrying operations on site to match its available supply. Note: The Proponent is required to obtain the necessary water licences for the project under the Water Act 1912 and/or the Water Management Act 2000.	Compliant	Site Inspections	Site inspection highlighted sufficient water for site. Hason WAL43442 was issued on 30/09/2020																								
Water Pollution																												

Condition Number	Condition	Compliance	Source of Evidence	Finding	Recommended Action
19	Unless an EPL or the EPA authorises otherwise, the Proponent must ensure that all surface water discharges from the site comply with section 120 of the POEO Act.	Non-Compliant	EPA Formal Warning Letter	Section 120 of the POEO Act - Prohibition of pollution of waters- (1) A person who pollutes any waters is guilty of an offence. Note : An offence against subsection (1) committed by a corporation is an offence attracting special executive liability for a director or other person involved in the management of the corporation--see section 169. (2) In this section-- "pollute" waters includes cause or permit any waters to be polluted. IEMA have interpreted this as exceedances of criteria. In an letter dated 09/08/2022. On 27 May 2022, the Licensee self-reported a discharge of sediment laden water from a non-licensed discharge point on the north eastern side of the premises. The EPA is of the opinion that HANSON CONSTRUCTION MATERIALS PTY LTD has breached licence condition L1 – Pollution of waters. The EPA has considered the incident in relation to the risk to environmental harm, the licensee's culpability and its response to the non-compliance. In doing so, the EPA has reviewed the corrective actions undertaken by the licensee and relatively low risk of environmental harm from the non-compliance. In these circumstances the EPA considers it appropriate to issue HANSON CONSTRUCTION MATERIALS PTY LTD with a Formal Warning in relation to this breach of licence condition L1.1.	NC - 007 Recommendation – Hanson should ensure that adequate provisions are made to ensure all water is contained onsite and to minimise reoccurrence.
Operating Conditions					
20	The Proponent must: (a) not undertake or permit any drilling or underboring to create a hydraulic connection between any quarry extraction void and the ocean; and (b) maximise reuse of water captured on the site and minimise the use of town water for the project.	Compliant	Groundwater testing	•All drilling on site is in a downwards directions i.e. not towards the ocean; •Site catchments is adequate, with most of the water directing to the main dam on site.	
On-Site Sewage Management					
21	The Proponent must manage on-site sewage to the satisfaction of Council and the EPA	Compliant	Council approval for septic tank	•Hanson manage onsite sewage through approved septic tank.	
Storage of Chemicals & Petroleum Products					
22	The Proponent must ensure that all chemicals and/or petroleum products on site are held in appropriately bunded areas with impervious flooring and sufficient capacity to contain 110% of the largest container stored within the bund, and in accordance with Australian Standard AS1940-2004, The Storage and Handling of Flammable and Combustible Liquids. The flooring and bund(s) must be designed in accordance with: • the requirements of relevant Australian Standards; and • DECC's Storing and Handling Liquids: Environmental Protection – Participants Manual.	Non-Compliant	Site Inspections	Site inspections highlighted multiple products which were not stored in bunded areas correctly or removed from site in the following areas: <u>"Graveyard Area"</u> • Empty Sulphuric acid (IBC 1000L) • Multiple empty Hydraulic Oil (IBC 1000L) • Empty Transmission Fluid (IBC 1000L) • Decommissioned machinery was also present in this area with noticeable hydrocarbon's leaking into soil. Note - while the IBC 1000L containers were empty, there was still small amounts of liquids present in all. <u>Workshop</u> • Full Hydraulic Oil (1000L) • Partially full Mobil Gear Oil (1000L) • Multiple unknown oils (1000L) It was also observed that there was some good storage of products across site.	NC - 008 Recommendation - Ensure that all chemicals and hydrocarbons are stored in 110% bunds. IR - 006 Improvement - Hanson to remove all unwanted/redundant items in the graveyard area. Ensure all items are correctly disposed of in licenced facilities.
Approval to Conduct Quarrying Operations Below 0 m AHD					
23	The Proponent may only undertake quarrying operations below 0 m AHD in the Extraction Areas with the prior written approval of the Secretary, subject to the following: (a) before undertaking quarrying operations between each of: • 0 m and -10 m AHD; • -10 m and -25 m AHD; and • -25 m and -40 m AHD; the Proponent must submit to the Secretary a revised groundwater assessment; (b) each such groundwater assessment must: • be prepared by suitably qualified and experienced person/s whose appointment has been approved by the Secretary; • be prepared in consultation with DPI Water; • include a review of the groundwater monitoring results from the previous stage/s against the predictions in the EA, Supplementary Groundwater Assessment and any later groundwater assessment; • describe any proposed alternating extraction stages between the Extraction Areas; • provide revised modelling of the site and vicinity and predictions of groundwater inflows to the Extraction Areas at the proposed incremental depth of extraction; • reconsider net inflows to, and potential impacts on, Killalea Lagoon; • propose an appropriate monitoring program, including borehole investigations and up to 3 test pits (of a permitted size of up to 15 m x 20 m and no greater than 10 m in depth) for each of the Extraction Areas; • demonstrate sufficient water access entitlements or exemptions can be obtained for predicted groundwater inflows; and • include a review of the Water Management Plan which proposes any amendments, including groundwater assessment criteria and groundwater monitoring, necessary to manage predicted groundwater inflows.	Not Triggered		Not triggered based on site communications. Hanson is still operating in Stage 1. Site also gets surveys.	
Water Management Plan					
24	The Proponent must prepare a Water Management Plan for the project to the satisfaction of the Secretary. This plan must be prepared in consultation with Council, EPA and DPI Water by suitably qualified and experienced person/s whose appointment has been approved by the Secretary, and be submitted to the Secretary for approval by 31 May 2014. In addition to the standard requirements for management plans (see condition 3 of Schedule 5), this plan must include a:	Compliant		General condition that meets this requirement.	

Condition Number	Condition	Compliance	Source of Evidence	Finding	Recommended Action																																																																																																												
24(a)	Site Water Balance that: •includes details of: - o sources and security of water supply, including contingency planning; - o water use on site; - o water management on site, including groundwater inflows to the quarry voids and site discharges; and - o audit and reporting procedures, including comparisons of the site water balance each calendar year; and - o describes the measures that would be implemented to minimise clean water use on site and maximise recycling opportunities;	Non-Compliant	Annual Reviews Site Water Balance	Preparation Section 4.8 - Contingency Plan Section 4.3-4.4 - Site Water Balance details groundwater inflows Section 4.5 - Water reuse and recycling opportunities Section 4.7 - Site Discharge Section 5 - Water Balance auditing and reporting Implementation: Throughout the audit period, Hanson failed to undertaken an annual audit of the Site Water Balance as required by this condition. Site is currently installing water metres to monitor site water balance.	NC - 009 Recommendation - Hanson to update the Site Water Balance which is to include the audit and reporting procedures, including comparisons of the site water balance each calendar year.																																																																																																												
24(b)	Surface Water Management Plan, that includes: •a detailed description of the surface water management system on site, including the: - o clean water diversion systems; - o erosion and sediment controls; - o effluent irrigation system; - o water transfers from the Extraction Areas; - o water storages; and - o discharge points; • design objectives and performance criteria for proposed: - o erosion and sediment control structures; - o water storages, including quarry voids; - o site discharges; and - o control of water pollution from rehabilitated areas of the site; • performance criteria, including trigger levels for investigating any potentially adverse impacts for surface water quality in Killalea Lagoon and Bushrangers Bay; • a program to monitor: - o the effectiveness of the water management system; - o site discharge water quality; and - o surface water level and quality in Killalea Lagoon, including the quantification of rainfall inflow, groundwater inflow and evaporation; • a plan to respond to any exceedances of the performance criteria, and mitigate and/or offset any adverse surface water impacts of the project; • long term water quality management objectives and the measures to achieve these objectives; and • audit and reporting procedures, including comparisons of the monitoring results	Non-Compliant	Annual Reviews Environmental Monitoring Report Surface Water Management Plan Killalea Lagoon Management Plan	Preparation Section 2.3 - Sediment and Erosion Control Section 2.2 - Clean Water Diversions Section 2.4 - Effluent Irrigation System Section 2.7 - Discharge Points Section 2.6 - Water Storages Section 2.5 - Water Transfers from Quarry Section 3.0 - Surface Water Monitoring Plan Section 4.0 - Long-Term Surface Water Management Section 4.4 - Reporting and Auditing Implementation •There were 15 non-compliances associated with surface water discharge in 2022. •Additionally, there are 2 non-compliances associated with surface water discharge in 2023. -On the 27/05/2022 Hanson had an unlicenced discharge off site with TSS 481 mg/L recorded. This was reported to the EPL, and a formal warning was given for the pollution of waters. IEMA has called the site non - compliant as this occurred through an area that was not a discharge point. IEMA believe additional work can be completed to reduce TSS levels (see recommendation). •Hanson is currently looking into the option of raising their pH limits, as the area is naturally alkaline, This will be in consultation with the EPA. Should this be approved, Hanson will be required to update the Surface Water Management Plan to reflect this. During the March 2022 exceedances, the EPA waived pollution incident reporting requirements due to the ongoing, and widespread flooding in NSW caused by the active la Nina. <table><thead><tr><th>Date</th><th>Licensed Discharge Point</th><th>pH</th><th>TSS (mg/L)</th><th>Oil/Grease (Visible or Not Visible)</th><th>Non-Compliance Details</th></tr></thead><tbody><tr><td>02/03/2022^</td><td>DP1</td><td>8.0</td><td>62</td><td>NV</td><td>TSS</td></tr><tr><td>07/03/2022^</td><td>DP1</td><td>8.3</td><td>53</td><td>NV</td><td>TSS</td></tr><tr><td>10/03/2022^</td><td>DP1</td><td>8.2</td><td>54</td><td>NV</td><td>TSS</td></tr><tr><td>24/03/2022</td><td>DP1</td><td>8.6</td><td>18</td><td>NV</td><td>pH</td></tr><tr><td>31/03/2022</td><td>DP1</td><td>8.4</td><td>52</td><td>NV</td><td>TSS</td></tr><tr><td>07/04/2022</td><td>DP1</td><td>8.3</td><td>55</td><td>NV</td><td>TSS</td></tr><tr><td>12/04/2022</td><td>DP1</td><td>8.2</td><td>84</td><td>NV</td><td>TSS</td></tr><tr><td>13/04/2022</td><td>DP1</td><td>8.1</td><td>55</td><td>NV</td><td>TSS</td></tr><tr><td>27/05/2022*</td><td>N/A</td><td>8.0</td><td>481</td><td>NV</td><td>TSS</td></tr><tr><td>27/05/2022*</td><td>N/A</td><td>8.1</td><td>91</td><td>NV</td><td>TSS</td></tr><tr><td>04/07/2022+</td><td>DP1</td><td>-</td><td>-</td><td>NV</td><td>No Sample Collected</td></tr><tr><td>19/07/2022</td><td>DP1</td><td>8.2</td><td>76</td><td>NV</td><td>TSS</td></tr><tr><td>27/08/2022</td><td>DP1</td><td>8.6</td><td>12</td><td>NV</td><td>pH</td></tr><tr><td>23/09/2022</td><td>DP1</td><td>8.6</td><td>11</td><td>NV</td><td>pH</td></tr><tr><td>26/09/2022</td><td>DP1</td><td>8.7</td><td>10</td><td>NV</td><td>pH</td></tr><tr><td>24/02/2023</td><td>DP1</td><td>8.6</td><td>6</td><td>NV</td><td>pH</td></tr><tr><td>05/04/2023</td><td>DP1</td><td>8.0</td><td>81</td><td>NV</td><td>TSS</td></tr></tbody></table> ^ EPA have waived pollution incident reporting requirements due to the widespread flooding of NSW * Samples were collected as part of a pollution incident, which did not occur via a licenced discharge point. + A sample was not collected during uncontrolled discharge via DP1 due to safety concerns about accessing the sampling point.	Date	Licensed Discharge Point	pH	TSS (mg/L)	Oil/Grease (Visible or Not Visible)	Non-Compliance Details	02/03/2022^	DP1	8.0	62	NV	TSS	07/03/2022^	DP1	8.3	53	NV	TSS	10/03/2022^	DP1	8.2	54	NV	TSS	24/03/2022	DP1	8.6	18	NV	pH	31/03/2022	DP1	8.4	52	NV	TSS	07/04/2022	DP1	8.3	55	NV	TSS	12/04/2022	DP1	8.2	84	NV	TSS	13/04/2022	DP1	8.1	55	NV	TSS	27/05/2022*	N/A	8.0	481	NV	TSS	27/05/2022*	N/A	8.1	91	NV	TSS	04/07/2022+	DP1	-	-	NV	No Sample Collected	19/07/2022	DP1	8.2	76	NV	TSS	27/08/2022	DP1	8.6	12	NV	pH	23/09/2022	DP1	8.6	11	NV	pH	26/09/2022	DP1	8.7	10	NV	pH	24/02/2023	DP1	8.6	6	NV	pH	05/04/2023	DP1	8.0	81	NV	TSS	NC - 010 Recommendation - Continue to look into ways to lower TSS. Liaise with planning and EPA if chemical flocculation is to be used. IR - 001 Improvement of Erosion and Sediment control (see figure) of the northern side of BPQ to include: • Construction of a Sediment Dam; • Connect Sediment Dam to drain for discharge; • Temporary sediment fence along northern fence line; and • Coir logs or similar along steep exposed banks to slow water flow until vegetation becomes established. 
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Condition Number	Condition	Compliance	Source of Evidence	Finding	Recommended Action
24(c)	Groundwater Management Plan, that includes: • detailed baseline data on groundwater yield and quality in groundwater bores on privately-owned land and Killalea Lagoon, that could be affected by the project; • groundwater assessment criteria, including trigger levels for investigating any potentially adverse groundwater impacts; • a program to monitor: - the impacts of the project on: - groundwater inflows to Killalea Lagoon; - any groundwater bores on privately-owned land that could be affected by the project; and • seepage from water storages or backfilled voids on site; • a plan to respond to any exceedances of the groundwater assessment criteria; and • audit and reporting procedures, including comparisons of the monitoring results each calendar year and quarterly reporting of Killalea Lagoon monitoring results; The Proponent must implement the approved management plan as approved from time to time by the Secretary.	Compliant	Groundwater Management Plan (2016) Baseline Monitoring Report of Surface and Groundwater Conditions: Bass Point Quarry Expansion (2022) (BMR)	Preparation Section 3.1 - Baseline Monitoring (BMR) Section 4 details trigger levels (BMR) Section 2.0 - Groundwater Monitoring Plan (BMR) GWMP fails to detail any seepage or backfills Section 6.2 - details contingency and response (BMR) Section 3.4 - Reporting and Auditing (GWMP) Separate Killalea Lagoon Management Plan details requirements Implementation ALS Monthly groundwater monitoring results Hanson Bass Point Quarry Environmental Monitoring Report Note - trigger levels are included in draft groundwater management plan Until triggers are approved, there is no groundwater triggers to measure against While the Groundwater Management Plan (2016) was approved, a document review highlighted that updates to this plan could be made. Hanson has indicated that the GWMP and Killalea Lagoon MP are currently in review stages for operating below OM once approval is granted.	
VISUAL					
Operating Conditions					
25	The Proponent must (a) implement all reasonable and feasible measures to minimise the visual impacts and any offsite lighting impacts of the project; and (b) maintain and improve the effectiveness of the vegetated plantings on the quarry benches and bunds, over the life of the project, to the satisfaction of the Secretary.	Compliant	Photo evidence provided by Hanson for visual bunds Site Inspection	•Complaints received regarding lighting in fuel area at night. Hanson has reviewed these, and installed shades and angled lights down to minimise any night time disturbances. •Southern mound area of quarry has also received complaints. This area has been seeded, and good evidence of growth was seen during site inspections. • Aerial imagery showing intact vegetation on north-west, west, and south-west bunds	
Advertising Signage					
26	The Proponent must not erect or display any advertising structure(s) or signs on the site without the written approval of the Secretary. Note: This condition does not require approval for any business identification, traffic management, and/or safety or environmental signs.	Not Triggered	Site Inspections	No issues noted.	
TRANSPORT					
Operating Conditions					
27	The Proponent must ensure that quarry products transported by road are only transported from the site on Bass Point Quarry Road to Dunmore Road (see Appendix 4), unless at the request of Council to supply material for the purpose of upgrading or maintaining the Bass Point Tourist Road.	Compliant	Driver Orientation records Transport Management Plan (2019)	Driver code of conduct in Transport Management Plan details the approved route drivers must use. Also verified during site inspection.	
28	The Proponent must, so far as reasonable and feasible, prioritise the transport of quarry products by ship.	Not Triggered	Annual Reviews	As detailed in the Annual Reviews, Hanson are not currently transporting any products by ship.	
29	The Proponent must ensure that all heavy vehicles: (a) do not exceed an on-site speed limit of 30 km per hour; (b) do not exceed a speed limit of 50 km per hour on Bass Point Quarry Road; (c) are dispatched from the site in a controlled manner to minimise queuing and potential delays at the roundabout and Dunmore Road intersections; (d) have their loads covered when entering or leaving the site, and (e) ensure that all laden trucks are cleaned of material that may fall from them, before leaving the site.	Non-Compliant	2020-2022 Annual reviews Transport Data Transport Management Plan	a) Section 2.2 of the Transport Management Plan has internal speed limit set to 20km/h b) Section 2.2 of the Transport Management Plan c) Section 2.7 of the Transport Management Plan d) Non- Compliant and self reported in 2021 Annual Review - Between 03/02/2021 to 19/03/2021, 275 road trucks carrying quarry materials were dispatched from site without appropriate tarps/covers. (Section 2.6 of Management Plan). It should be noted, that these trucks were dispatched with armour rocks material i.e. rocks over 1m in diameter, not small aggregate or road base. It should also be noted that there were no complaints received for this incidence, and the failure to cover loads was discovered by Hanson staff. e) verified during site inspections - Laden trucks can pass under a water spray bar on their way to the weighbridge to clean off any loose material. A street sweeper cleans the road at least once per week to minimise track-out of materials onto the public road network. The length of the haul road also minimises the track-out of materials onto public roads.	NC - 011 No further recommendations
30	The Proponent must maintain the pavement of Bass Point Quarry Road to minimise noise generation and potholes, to the satisfaction of the Secretary.	Compliant	Maintenance contribution records Streetsweeper records Road Maintenance records	• Bass Point Quarry Road found to be generally in good condition. • Evidence of maintenance records. • Evidence of road maintenance contribution.	
Monitoring of Product Transport					
31	The Proponent must: (a) keep accurate records of: • the amount of quarry products transported from the site (monthly and annually); • the regional destination of quarry products transported from the site; and • all laden truck movements (ie dispatch of trucks carrying quarry products or concrete) from the site (hourly, daily, weekly, monthly and annually); and (b) publish these records on its website on a quarterly basis.	Compliant	Transport Monitoring Data Website Review	• Transport records detail regional destination, quantity, laden truck movements. • Website up to date with transport data. • Note the transport records data does not detail the exact location of the quarry products, just the regional area.	
Parking					
32	The Proponent must provide sufficient parking on-site for all project-related traffic in accordance with Council's parking codes.	Compliant	Aerial imagery showing truck and car parking facilities	Hanson has adequate onsite parking for cars and truck's Verified during site inspections.	
Transport Management Plan				S	

Condition Number	Condition	Compliance	Source of Evidence	Finding	Recommended Action
33	The Proponent must prepare a Transport Management Plan for the project to the satisfaction of the Secretary. This plan must: (a) be prepared by suitably qualified experienced person(s), whose appointment has been approved by the Secretary; (b) be prepared in consultation with Council and RMS, and be submitted to the Secretary within three months of the determination of Modification 2, or as otherwise agreed by the Secretary; (c) include details of all transport routes and traffic types to be used for project-related traffic; (d) describe the processes in place for the control of truck movements entering and exiting the site; (e) include details of the measures to be implemented to minimise traffic safety issues and disruption to local road users, including minimising potential for conflict with school buses; (f) include a Driver's Code of Conduct that includes procedures to ensure that drivers: (i) adhere to posted speed limits or other required travelling speeds; (ii) adhere to designated transport routes; (iii) implement safe and quiet driving practices; (iv) are aware of potential safety issues along the haulage route, particularly near schools and intersections; (g) describe the measures to be put in place to ensure compliance with the Driver's Code of Conduct; and (h) propose measures to minimise the transmission of dust and tracking of material onto the surface of public roads from vehicles exiting the site. The Proponent must implement the Transport Management Plan as approved by the Secretary.	Non-Compliant	Transport Management Plan (2019) Annual Review 2020-2022	Preparation a) no evidence of endorsement provided in Management Plan b) Section 7 - Correspondence c) Section 1.4 d) Section 2.7 e) Section 1.4 and Section 2 f) Section 2 - Code of Conduct g) Section 3.2 h) Section 2.6 It should be noted that while the Transport Management Plan is approved, there is no evidence that the Management Plan was prepared by a suitably experienced person, whose appointment has been approved by the Secretary. DPE letter dated 21/02/2017 indicates that original TMP prepared by Intersect has been reviewed against the requirements of the Project Approval, and has been approved - Current updated Transport MP is currently with Planning for Approval - During site inspections, evidence that vehicles along haul road were abiding by speed limits and approved haul routes - Streep sweeper records to minimise transmission of dust leaving site Hanson has provided evidence that an updated Transport Management Plan has been provided to DPE for review and approval Non Compliant on the Implementation of the Transport Management Plan <u>Load Covering - Section 2.6 of Management Plan</u> - Between 03/02/2021 to 19/03/2021 275 road trucks carrying quarry materials were dispatched from site without appropriate tarps/covers. (self reported). <u>Transport Limitations - Section 1.3 of Management Plan</u> - Additionally, on 30/07/2022 between 5-6am - 25 laden trucks were dispatched. Prevailing hourly limit at this time is 23 between 6-7am - 26 laden trucks were dispatched. Prevailing hourly limit at this time is 23	NC - 012 Recommendation - add letter of appointment as per condition (a) (Transport Management Plan)- liaise with planning. No further actions required for the implementation, as Hanson have already addressed these.
33A	Within three months of the determination of Modification 2, or as otherwise agreed by the Secretary, the Proponent must: (a) undertake a visual inspection of the noise barriers along Bass Point Quarry Road in consultation with Council; (b) submit a report to Council detailing: (i) the outcomes of this inspection regarding the condition and functionality of the existing noise barriers; and (ii) any works required to be undertaken to ensure the noise barriers provide effective noise attenuation for residents along Bass Point Quarry Road; and (c) provide a copy of this report to the Secretary.	Compliant	Independent Environmental Audit 2020 (Aguas)	Verified in previous 2020 Audit	
Cumulative Traffic Impact Study					
34	The Proponent must, in conjunction with the operators of the Dunmore Quarry and the Albion Park Quarry, cause to be prepared an independent Cumulative Traffic Impact Study. The study must: (a) be undertaken by a suitably qualified traffic consultant, whose appointment has been approved by the Secretary; (b) be commissioned by 30 June 2014, and completed by 31 October 2014, or as otherwise agreed in writing by the Secretary (c) be co-funded by the operators of the Dunmore, Bass Point and Albion Park quarries, proportionate to the quarries' respective quarry product road transport limits, as approved at 30 June 2014; (d) include a comprehensive assessment of current and future projected cumulative traffic impacts of the three quarries on the classified road network, undertaken in consultation with the RMS; and (e) identify any reasonable and feasible measures that can be implemented to minimise the traffic and road safety impacts of quarry trucks on Mount Ousley Road, and the likely cost of implementing these measures.	Not Triggered	Independent Environmental Audit 2020 (Aguas)	Verified in previous Audits. Outside of audit period - findings included in Traffic Management Plan.	
35	The Proponent must, in conjunction with the operators of the Dunmore Quarry and the Albion Park Quarry, prepare and implement a program to implement any reasonable and feasible measures identified in the Cumulative Traffic Impact Study not already undertaken by the Applicant, in an equitable manner with the two other quarry operators to the satisfaction of the Secretary. The program must be submitted to the Secretary for approval by 28 February 2015, or as otherwise agreed in writing by the Secretary.	Not Triggered	Independent Environmental Audit 2020 (Aguas)	Verified in previous Audits. Outside of audit period.	
WASTE					
36	The Proponent must: (a) minimise the waste generated by the project; and (b) ensure that the waste generated by the project is appropriately stored, handled, and disposed of, to the satisfaction of the Secretary.	Compliant	Waste Records during Audit Period Evidence of lawful disposal by contractor	Hanson has commissioned Cleanaway as contractor to dispose of waste materials on site. Site inspection generally showed good waste segregation. See Schedule 3, condition 22 for petrol oleum non-compliance.	
HERITAGE					
Heritage Management Plan					
37	The Proponent must prepare a Heritage Management Plan for the project to the satisfaction of the Secretary. This plan must: (a) be prepared in consultation with Aboriginal stakeholders for matters relating to Aboriginal heritage values and with Council for matters relating to non-Aboriginal heritage; (b) be submitted to the Secretary for approval by 31 May 2014; (c) describe the measures that would be implemented for: - managing the discovery of any human remains or previously unidentified heritage objects on site; - ensuring ongoing consultation with Aboriginal stakeholders in the conservation and management of any Aboriginal cultural heritage values on site; - protecting heritage sites identified adjacent to the project. The Proponent must implement the approved management plan as approved from time to time by the Secretary.	Compliant	Heritage Management Plan (2021) AHIMS search of "Activity Area" Work inductions	Preparation a) Section 3.1 - Aboriginal Consultation provided b) - outside audit period c) Section 6 Hanson doc - Regal Heritage 01/12/2022 - due diligence provided for clearing near south pit. Evidence of work inductions pertaining to Heritage management. Implementation - During site inspections, it was evident that Hanson staff had sound knowledge of the CHMP. - A due diligence report (Regal Heritage) was conducted in an area that had previously been surveyed, however Hanson staff did not have confidence that the area in question was adequately inspected.	
LANDSCAPE					
Rehabilitation Objectives					

Condition Number	Condition	Compliance	Source of Evidence	Finding	Recommended Action														
38	The Proponent must rehabilitate the site to the satisfaction of the Secretary. This rehabilitation must be generally consistent with the proposed rehabilitation strategy in the EA and Appendix 5, and comply with the objectives in Table 7. <table><tr><th colspan="2">Table 7: Rehabilitation Objectives</th></tr><tr><th>Feature</th><th>Objective</th></tr><tr><td>Site (as a whole)</td><td>Safe, stable & non-polluting.</td></tr><tr><td>Surface Infrastructure</td><td>To be decommissioned and removed, unless the Secretary agrees otherwise.</td></tr><tr><td>Quarry Benches</td><td>Landscaped and revegetated utilising native tree and understorey species</td></tr><tr><td>Public Access</td><td>Establish safe pedestrian access between Killalea State Park and Bass Point Reserve</td></tr><tr><td>Other land affected by the project</td><td>Maintain or establish self-sustaining eco-systems comprised of: - native endemic species; and - a landform consistent with Figure 5 (Appendix 5) and the surrounding environment. </td></tr></table>	Table 7: Rehabilitation Objectives		Feature	Objective	Site (as a whole)	Safe, stable & non-polluting.	Surface Infrastructure	To be decommissioned and removed, unless the Secretary agrees otherwise.	Quarry Benches	Landscaped and revegetated utilising native tree and understorey species	Public Access	Establish safe pedestrian access between Killalea State Park and Bass Point Reserve	Other land affected by the project	Maintain or establish self-sustaining eco-systems comprised of: - native endemic species; and - a landform consistent with Figure 5 (Appendix 5) and the surrounding environment.	Not Triggered	Annual Reviews Tubestock invoices Quarterly inspection records	•Hanson has carried out rehabilitation along the northern and southern screening bund using native plants from Jamberoo Native Nursery. Verified during site inspections. • Note: this condition is primarily aimed at final rehabilitation. Site is still in operation, however there is a good coverage of vegetation along bunds that is safe/stable and non-polluting. • Large amount of exotic grass present on site Bitou Bush and Lantana present across site also.	IR - 003 Improvement future rehabilitation to include mix of native grass based on advise of seed specialist/coastal specialist.
Table 7: Rehabilitation Objectives																			
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Other land affected by the project	Maintain or establish self-sustaining eco-systems comprised of: - native endemic species; and - a landform consistent with Figure 5 (Appendix 5) and the surrounding environment.																		
Progressive Rehabilitation																			
39	The Proponent must rehabilitate the site progressively, that is, as soon as reasonably practicable following disturbance. All reasonable and feasible measures must be taken to minimise the total area exposed for dust generation at any time. Interim rehabilitation strategies must be employed when areas prone to dust generation cannot yet be permanently rehabilitated.	Compliant	Annual Reviews Site Inspections	• The ongoing development of screening bunds has involved native vegetation planting on the northern screening wall and continued on the southern side of Bass Point Quarry Road throughout 2020. • The ongoing development of screening bunds has involved native vegetation planting on the southern side of the Quarry during the 2021 reporting period. • During the 2022 reporting period, rehabilitation activities primarily focussed on landscape mounds, specifically the southern and north-western landscape mounds. • During site inspections -site has completed sufficient progressive rehabilitation along site, with few exposed bunds on site.															
Landscape Management Plan																			
40	The Proponent must prepare a Landscape Management Plan for the project to the satisfaction of the Secretary. This plan must: (a) be prepared in consultation with DRG and Council; (b) be submitted to the Secretary for approval within 12 months of the date of this approval; (c) describe the short, medium and long term measures that would be implemented to: - manage remnant vegetation and habitat on site; and - ensure compliance with the rehabilitation objectives and progressive rehabilitation obligations in this approval; (d) include detailed performance and completion criteria for evaluating the performance of the rehabilitation of the site, including triggering remedial action (if necessary); (e) include a detailed description of the measures that would be implemented, including the procedures to be implemented for: - ensuring compliance with the rehabilitation objectives and progressive rehabilitation obligations in this approval; - enhancing the quality of remnant vegetation and fauna habitat; - restoring native endemic vegetation and fauna habitat within the rehabilitation area; - maximising the salvage of environmental resources within the approved disturbance area – including vegetative and soil resources – for beneficial reuse in the enhancement of the rehabilitation areas ; - collecting and propagating seed; - avoiding impacts to threatened species (including <i>Pimelia spicata</i>); EECs (including Littoral Rainforest EEC and Themeda Grassland EEC); and the Melaleuca armarialis Tall Shrubland and Littoral Thicket vegetation communities, including the identification and marking of areas in which these species and/or communities may occur; - minimising the impacts on native fauna on site, including undertaking appropriate preclearance surveys; - controlling weeds and feral pests; - controlling erosion; - controlling access; and - bushfire management; (f) include a program to monitor the effectiveness of these measures, and progress against the performance and completion criteria; (g) provide details of water management measures to be implemented to minimise the risk of blue green algae proliferation in water bodies, particularly in final voids; (h) identify the potential risks to successful rehabilitation of the site, and include a description of the contingency measures that would be implemented to mitigate against these risks; and (i) include details of who would be responsible for monitoring, reviewing, and implementing the plan. The Proponent must implement the approved management plan as approved from time to time by the Secretary.	Compliant	Annual Reviews Landscape Management Plan Pest Control records Tubestock Invoices Quarterly Inspections Pre-clearance biodiversity report	Preparation a) Consultation provided in Management Plan b) outside of reporting period c) Table 7 of LMP d) Section 13 - Completion Criteria e) Table 8, Section 9.2, Section 12, Section 8, Section 11 f) Section 14 g) Section 8.6 and 12.3.5 h) Tables 6-8 i) Section 7 Implementation •Hanson have provided multiple monitoring programs/reports and invoices which detail successful implementation of the Landscape Management Plan. •Note - Hanson self reported a non-compliance in the 2020 Annual Review: "Failing to undertake weed management in accordance with the Landscape Management Plan. Weed management by contractor was unable to be completed due to COVID restrictions in the Shell Harbour area". • Skills shortage and travel restrictions during the Covid-19 pandemic prevented weed management to occur. Based on site inspections, Hanson has undertaken sufficient weed management during audit period, and the self reported non-compliance was not due to an action caused by Hanson, as has therefore been deemed compliant by the audit team. • Illawarra Shoalhaven Joint Organisation (ISJO) currently undertake weed control management for site monthly. • Site inspections revealed that lantana, bitou bush and kikuyu grass was the most common weeds on site. • No current banks of topsoil management on site. • Feral animals - site looking in additional feral animal management to control fox's/deer on site. Hanson have provided evidence that this Management Plan will be updated on the approval of MOD 3.	IR - 004 Improvement - continued targeted weed management - especially around lantana and bitou bush. Incorporate a weed report from ISJO (or other contractors) highlighting spraying area/ operations/ general weed management each month. Recommend a one page checklist to show summary of weed management that occurred.														
Conservation & Rehabilitation Bond																			
41	Within 6 months of the approval of the Landscape Management Plan, the Proponent must lodge a Conservation and Rehabilitation Bond with the Department to ensure that the rehabilitation of the site is implemented in accordance with the performance and completion criteria set out in the Landscape Management Plan. The sum of the bond must be determined by: (a) calculating the cost of rehabilitating the site; and (b) employing a suitably qualified quantity surveyor or other expert to verify the calculated costs, to the satisfaction of the Secretary. Notes: - If capital and other expenditure required by the Landscape Management Plan is largely complete, the Secretary may waive the requirement for lodgement of a bond in respect of the remaining expenditure. - If the rehabilitation of the site area is completed to the satisfaction of the Secretary, then the Secretary will release the bond. If the rehabilitation of the site is not completed to the satisfaction of the Secretary, then the Secretary will call in all or part of the bond, and arrange for the completion of the relevant works.	Not Triggered		Confirmed during previous audit. Landscape and Rehabilitation Management Plan approved 16/03/2018, lodgement confirmed 16/10/2018.															
42	Within 3 months of each Independent Environmental Audit (see condition 9 of Schedule 5), the Proponent must review, and if necessary revise, the sum of the Conservation and Rehabilitation Bond to the satisfaction of the Secretary. This review must consider the: (a) effects of inflation; (b) performance of the rehabilitation of the site to date; and (c) likely cost of rehabilitating the site.	Compliant	DPE Conservation Bond Approval (23/06/2021) Letter of extension email (14/04/2021) Bank Quarantine (21/12/2021)	Due to continued COVID-19 restrictions, Hanson requested an extension on the review of the Conservation Bond. DPE granted an extension approval till 30/07/2021 and approved the Conservation Bond amount. Hanson requested additional extension which was granted. Hanson submitted Bank Guarantee confirmation in December 2021.															
Additional Procedures - Schedule 4																			
NOTIFICATION OF LANDOWNERS																			
1	As soon as practicable, and no longer than 7 days, after obtaining monitoring results showing an exceedance of: (a) any relevant criteria in Schedule 3, the Proponent must notify affected landowners in writing of the exceedance, and provide regular monitoring results to each affected landowner until the project is again complying with the relevant criteria; and (b) the relevant air quality criteria in Schedule 3, the proponent 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/or existing tenants of the land.	Not Triggered		Correspondence from planning indicating that landowners are not affected.															
INDEPENDENT REVIEW																			

Condition Number	Condition	Compliance	Source of Evidence	Finding	Recommended Action
2	If an owner of privately-owned land considers the project to be exceeding the relevant criteria in Schedule 3, then he/she may ask the Secretary in writing for an independent review of the impacts of the project on his/her land. If the Secretary is satisfied that an independent review is warranted, then within 2 months of the Secretary's decision the Proponent must: (a) commission a suitably qualified, experienced and independent expert, whose appointment has been approved by the Secretary, to: • consult with the landowner to determine his/her concerns; • conduct monitoring to determine whether the project is complying with the relevant criteria in Schedule 3; and • if the project is not complying with these criteria, then identify the measures that could be implemented to ensure compliance with the relevant criteria; and (b) give the Secretary and landowner a copy of the independent review; and (c) comply with any written requests made by the Secretary to implement any findings of the review.	Not Triggered		Based on site communications, not triggered.	
Environmental Management, Reporting, and Auditing - Schedule 5					
ENVIRONMENTAL MANAGEMENT					
Environmental Management Strategy					
1	The Proponent must prepare an Environmental Management Strategy for the project to the satisfaction of the Secretary. This strategy must: (a) be submitted to the Secretary for approval by 31 July 2014; (b) provide the strategic framework for environmental management of the project; (c) identify the statutory approvals that apply to the project; (d) describe the role, responsibility, authority and accountability of all key personnel involved in the environmental management of the project; (e) describe the procedures that would be implemented to: • keep the local community and relevant agencies informed about the operation and environmental performance of the project; • receive, handle, respond to, and record complaints; • resolve any disputes that may arise during the course of the project; • respond to any non-compliance; and • respond to emergencies; and (f) include: • copies of any strategies, plans and programs approved under the conditions of this approval; and • a clear plan depicting all the monitoring required to be carried out under the conditions of this approval. The Proponent must implement the approved strategy as approved from time to time by the Secretary.	Non-Compliant	Complaints and incident records. EMS (2021)	Preparation: a) Outside audit period b) Whole document c) Section 2 d) Section 4.1 e) Section 4.0 • Section 4.1 • Section 4.4 • Section 4.5 • Section 4.6 f) Section 5.1 Implementation: Evidence of implementation through complaints and incident records. Non-Compliance on the Implementation for the following: Section 4.5.2 Non-Compliance incident states: <i>"Within 7 days of the date of the non-compliance incident, Hanson will provide a detailed report to DPIE and the EPA (as deemed relevant)"</i> This examples below was outside the seven days for report notifications - resulting in non compliance. • Detailed Incident Investigation Report regarding discharge of polluted water (excess pH) via LDP1 was provided to Planning on 14/09/2022, with Hanson advising the Secretary of the incident on 31/08/2022. The incident occurred on 27/08/2022 (further details of incident detailed in Sch 3, Condition 24b). Report was provided 14 days after notifying Planning of the incident.	NC - 013 Recommendation - Hanson to ensure all detailed incident reporting is provided to DPE within 7 days.
Evidence of Consultation					
1A	Where consultation with any public authority is required by the conditions of this approval, the Proponent must: (a) consult with the relevant public authority prior to submitting the required document; (b) submit evidence of this consultation as part of the relevant document; (c) describe how matters raised by the authority have been addressed and any matters not resolved; and (d) include details of any outstanding issues raised by the authority and an explanation of disagreement between any public authority and the Proponent.	Compliant		Evidence on consultation is provided in management plans.	
Adaptive Management					
2	The Proponent must assess and manage project-related risks to ensure that there are no exceedances of the criteria and/or performance measures in Schedule 3. Any exceedance of these criteria and/or performance measures constitutes a breach of this approval and may be subject to penalty or offence provisions under the EP&A Act or EP&A Regulation. Where any exceedance of these criteria and/or performance measures has occurred, the Proponent must, at the earliest opportunity: (a) take all reasonable and feasible measures to ensure that the exceedance ceases and does not recur; (b) consider all reasonable and feasible options for remediation (where relevant); (c) within 14 days of the exceedance occurring, submit a report to the Secretary describing these remediation options and any preferred remediation measures or other course of action; and (d) implement remediation measures as directed by the Secretary; to the satisfaction of the Secretary.	Compliant	Water Quality Monitoring Data Incident reports	a) Hanson is currently looking into raising pH discharge limits with EPA, as the water in the area is naturally alkaline, and also the option of additional sediment methods to reduce TSS. Hanson has trialled dust suppression products to improve air quality. b) Not triggered. c) exceedance reports provided to secretary within the 14 days detail remediation measures and other courses of action. d) No remediation works directed by Secretary during audit period.	
Management Plan Requirements					
3	The Proponent must ensure that the Management Plans required under this approval are prepared in accordance with any relevant guidelines, and include: (a) detailed baseline data; (b) a description of: • the relevant statutory requirements (including any relevant approval, licence or lease conditions); • any relevant limits or performance measures/criteria; and • the specific performance indicators that are proposed to be used to judge the performance of, or guide the implementation of, the project or any management measures; (c) a description of the measures that would be implemented to comply with the relevant statutory requirements, limits, or performance measures/criteria; (d) a program to monitor and report on the: • impacts and environmental performance of the project; and • effectiveness of any management measures (see (c) above); (e) a contingency plan to manage any unpredicted impacts and their consequences; (f) a program to investigate and implement ways to improve the environmental performance of the project over time; (g) a protocol for managing and reporting any: • incidents; • complaints; • non-compliances with statutory requirements; and • exceedances of the impact assessment criteria and/or performance criteria; and (h) a protocol for periodic review of the plan.\ Note: The Secretary may waive some of these requirements if they are unnecessary or unwarranted for particular management plans.	Compliant		All Management Plans have been approved by DPE. During site communications, it was further discussed that there a several updated management plans currently with DPE for comment or approval.	
Annual Review					

Condition Number	Condition	Compliance	Source of Evidence	Finding	Recommended Action
4	By the end of March each year, the Proponent must review the environmental performance of the project to the satisfaction of the Secretary. This review must: (a) describe the development (including rehabilitation) that was carried out in the previous calendar year, and the development that is proposed to be carried out over the current calendar year; (b) include a comprehensive review of the monitoring results and complaints records of the project over the previous calendar year, which includes a comparison of these results against: • the relevant statutory requirements, limits or performance measures/criteria; • the monitoring results of previous years; and • the relevant predictions in the EA; (c) identify any non-compliance over the last year, and describe what actions were (or are being) taken to ensure compliance; (d) identify any trends in the monitoring data over the life of the project; (e) identify any discrepancies between the predicted and actual impacts of the project, and analyse the potential cause of any significant discrepancies; and (f) describe what measures will be implemented over the current calendar year to improve the environmental performance of the project.	Non-Compliant	2020 Annual Review 2021 Annual Review 2022 Annual Review	2020 Annual Review Final was issued on 31/03/2021, with a re-submission provided on 24/12/2021. There is no additional information provided to determine if this was approved, however based on the re-submission date, it has been deemed approved. 2021 Annual review was issued on 28/07/2022 and was approved by DPE on the 19/08/2022. Final draft version was completed by 31/03/2022. As the consent requires the Annual Review to be submitted by the end of March, the submission in August deems this a non-compliance. Evidence that the 2021 Annual Review required an extension for submission, however DPE noted "The Secretary does not have discretion under Schedule 5, Condition 4 of the consent to grant your request for an extension of time to submit the Annual Review four weeks after the due date." 2022 Annual Review was issued on 31/03/2023 and approved by DPE 04/04/2023.	IR - 005 Improvement - include predications against the EA in annual reviews. NC - 014 - Hanson to ensure that all Annual Reviews are submitted to the Secretary by the end of March each year.
Revision of Strategies, Plans & Programs					
5	Within 3 months of: (a) the submission of an annual review under condition 4 above; (b) the submission of an incident report under condition 7 below; (c) the submission of an audit report under condition 9 below; or (d) any modification to this approval (unless the conditions require otherwise), the Proponent must review the strategies, plans, and programs required under this approval, to the satisfaction of the Secretary. The Proponent 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. 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 project.	Compliant		Annual Reviews details the review process and management plan updates throughout audit period. Revisions of management plans detailed in incident reports. d) MOD 4 - triggered update of transport management plan. Hanson has provided evidence that the updated transport management plan is currently within the DPE portal for approval. This has since been approved on 23/10/2023	
5A	To ensure that strategies, plans or programs required under this approval are updated on a regular basis, and that they incorporate any appropriate additional measures to improve the environmental performance of the development, the Proponent may at any time submit revised strategies, plans or programs for the approval of the Secretary. With the agreement of the Secretary, the Proponent may also submit any strategy, plan or program required by this approval on a staged basis. The Secretary may approve a revised strategy, plan or program required under this approval, or the staged submission of any of these documents, at any time. With the agreement of the Secretary, the Proponent may prepare the revised or staged strategy, plan or program without undertaking consultation with all parties nominated under the applicable condition in this approval. While any strategy, plan or program may be submitted on a staged basis, the Proponent 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 program applies; the relationship of this stage/s to any future stages; and the trigger for updating the strategy, plan or program.	Not Triggered			
5B	The Proponent must continue to apply existing approved management strategies, plans or monitoring programs approved prior to the approval of a modification to this approval, until the approval of a similar plan, strategy or program following the approval of that modification.	Compliant			
Community Consultative Committee					
6	The Proponent must establish and operate a Community Consultative Committee (CCC) for the project to the satisfaction of the Secretary. This CCC must be operated in general accordance with the Department's Community Consultative Committee Guidelines, November 2016 (or later version), and be operating within four months of the date of this approval. Notes: • The CCC is an advisory committee. The Department and other relevant agencies are responsible for ensuring that the Proponent complies with this approval. • In accordance with the guideline, the Committee should comprise an independent chair and appropriate representation from the Proponent, Council, recognised environmental groups and the local community.	Compliant	CCC Minutes Records show the meetings are held quarterly	Bass Point Website has records of CCC Minutes.	
REPORTING					
Incident Reporting					
7	The Proponent must immediately notify the Secretary (using the contact name, email address and phone number provided by the Department from time to time) and any other relevant agencies of any incident.	Compliant	Incident reporting	Site has provided evidence of all incident reports that occurred throughout the audit period.	
7A	Within 7 days of the date of the incident, the Proponent must provide the Secretary and any relevant agencies with a detailed report on the incident, and such further reports as may be requested. This report must include the time and date of the incident, details of the incident, measures implemented to prevent re-occurrence and must identify and non-compliance with this approval.	Non-Compliant	Incident reporting	The project approval defines an incident as: A set of circumstances that: • causes or threatens to cause material harm to the environment; and/or • breaches or exceeds the limits or performance measures/criteria in this consent. This examples below was outside the seven days for report notifications - resulting in non compliance. • Detailed Incident Investigation Report regarding discharge of polluted water (excess pH) via LDP1 was provided to Planning on 14/09/2022, with Hanson advising the Secretary of the incident on 31/08/2022. The incident occurred on 27/08/2022 (further details of incident detailed in Sch 3, Condition 24b). Report was provided 14 days after notifying Planning of the incident.	NC - 013 Recommendation - Hanson to ensure all detailed incident reporting is provided to DPE within 7 days.
Regular Reporting					
8	The Proponent must provide regular reporting on the environmental performance of the project on its website, in accordance with the reporting arrangements in any plans or programs approved under the conditions of this approval.	Compliant	Website review	Environmental monitoring records were available on the Bass Point Quarry website.	
INDEPENDENT ENVIRONMENTAL AUDIT					

Condition Number	Condition	Compliance	Source of Evidence	Finding	Recommended Action
9	By 30 June 2014, and every 3 years thereafter, unless the Secretary directs otherwise, the Proponent must commission and pay the full cost of an Independent Environmental Audit of the project. This audit must: (a) be conducted by suitably qualified, experienced and independent team of experts whose appointment has been endorsed by the Secretary; (b) include consultation with the relevant agencies; (c) assess the environmental performance of the project and whether it is complying with the relevant requirements in this approval and any relevant EPL and/or Water Licence (including any assessment, plan or program required under these approvals); (d) review the adequacy of any approved strategy, plan or program required under the these approvals; and (e) recommend measures or actions to improve the environmental performance of the project, and/or any assessment, plan or program required under these approvals. Note: This audit team must be led by a suitably qualified auditor and include experts in any fields specified by the Secretary.	Compliant	Previous IEA	Previous audit granted extension due to COVID-19 restrictions (conducted 08/09/2020). Endorsement for 2023 IEA on 21/06/2023 (attached to audit as appendix). Site inspection took place 5-6 September 2023, with audit period from 1 September 2020 till 31 August 2023. Report submitted to DPE on 28/10/2020. Site has a water licence once RL0 is reached, however, site is not yet at 0.	
10	Within 3 months of commissioning this audit, or as otherwise agreed by the Secretary, the Proponent must submit a copy of the audit report to the Secretary, together with its response to any recommendations contained in the audit report.	Compliant		17/08/2020 letter of endorsement for previous audit. The final report submitted 28/10/2020.	
ACCESS TO INFORMATION					
11	By 31 May 2014, the Proponent must: (a) make the following information publicly available on its website: • the EA; • all current statutory approvals for the project; • all approved strategies, plans or programs; • a summary of the monitoring results of the project, which have been reported in accordance with the various plans and programs approved under the conditions of this approval; • a complaints register, updated on a quarterly basis; • minutes of all CCC meetings; • copies of any annual reviews, or similar (for the last 5 years); • any independent environmental audit, and the Proponent's response to the recommendations in any audit; and • any other matter required by the Secretary; and (b) keep this information up-to-date, to the satisfaction of the Secretary.	Compliant	Website review	Information required under this condition is readily available and updated on publicly accessed company website.	

Environment Protection Licence - 2193																					
Audit Period: 1 September 2020 - 6 September 2023																					
Condition Number	Condition	Compliance	Source of Evidence	Finding	Recommended Action																
1	Administrative Conditions																				
A1 - What the licence authorises and regulates																					
A1.1	This licence authorises the carrying out of the scheduled activities listed below at the premises specified in A2. The activities are listed according to their scheduled activity classification, fee-based activity classification and the scale of the operation. Unless otherwise further restricted by a condition of this licence, the scale at which the activity is carried out must not exceed the maximum scale specified in this condition. <table><tr><th>Scheduled Activity</th><th>Fee Based Activity</th><th>Scale</th></tr><tr><td>Crushing, grinding or separating</td><td>Crushing, grinding or separating</td><td>> 2000000 T annual processing capacity</td></tr><tr><td>Extractive activities</td><td>Extractive activities</td><td>> 2000000 T annually extracted or processed</td></tr></table>	Scheduled Activity	Fee Based Activity	Scale	Crushing, grinding or separating	Crushing, grinding or separating	> 2000000 T annual processing capacity	Extractive activities	Extractive activities	> 2000000 T annually extracted or processed	Compliant		noted								
Scheduled Activity	Fee Based Activity	Scale																			
Crushing, grinding or separating	Crushing, grinding or separating	> 2000000 T annual processing capacity																			
Extractive activities	Extractive activities	> 2000000 T annually extracted or processed																			
A2 - Premises or plant to which this licence applies																					
A2.1	The licence applies to the following premises: <table><tr><th>Premises Details</th></tr><tr><td>HANSON CONSTRUCTION MATERIALS PTY LTD</td></tr><tr><td>BOOLLWARROO PARADE</td></tr><tr><td>SHELLHARBOUR</td></tr><tr><td>NSW 2529</td></tr><tr><td>LOT 16 DP 627783, LOT 78 DP 751290, LOT 22 DP 1010797</td></tr></table>	Premises Details	HANSON CONSTRUCTION MATERIALS PTY LTD	BOOLLWARROO PARADE	SHELLHARBOUR	NSW 2529	LOT 16 DP 627783, LOT 78 DP 751290, LOT 22 DP 1010797	Compliant		noted											
Premises Details																					
HANSON CONSTRUCTION MATERIALS PTY LTD																					
BOOLLWARROO PARADE																					
SHELLHARBOUR																					
NSW 2529																					
LOT 16 DP 627783, LOT 78 DP 751290, LOT 22 DP 1010797																					
A3 - Information supplied to the EPA																					
A3.1	Works and activities must be carried out in accordance with the proposal contained in the licence application, except as expressly provided by a condition of this licence. In this condition the reference to "the licence application" includes a reference to: a) the applications for any licences (including former pollution control approvals) which this licence replaces under the Protection of the Environment Operations (Savings and Transitional) Regulation 1998; and b) the licence information form provided by the licensee to the EPA to assist the EPA in connection with the issuing of this licence.	not triggered																			
PART 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>4</td><td>Dust deposition monitoring</td><td></td><td>West of the premises and labelled as "DDG 1" on aerial photo titled 'BASS POINT QUARRY Monitoring Location - EPA' dated 11 June 2020.</td></tr><tr><td>5</td><td>Dust deposition monitoring</td><td></td><td>North-West of the premises and labelled as "DDG 2" on aerial photo titled 'BASS POINT QUARRY Monitoring Location - EPA' dated 11 June 2020.</td></tr></table>	Air				EPA Identification no.	Type of Monitoring Point	Type of Discharge Point	Location Description	4	Dust deposition monitoring		West of the premises and labelled as "DDG 1" on aerial photo titled 'BASS POINT QUARRY Monitoring Location - EPA' dated 11 June 2020.	5	Dust deposition monitoring		North-West of the premises and labelled as "DDG 2" on aerial photo titled 'BASS POINT QUARRY Monitoring Location - EPA' dated 11 June 2020.	Compliant	Annual Review Air Quality Management Plan	Evidence of reporting in annual reviews and location is detailed in management plan.	
Air																					
EPA Identification no.	Type of Monitoring Point	Type of Discharge Point	Location Description																		
4	Dust deposition monitoring		West of the premises and labelled as "DDG 1" on aerial photo titled 'BASS POINT QUARRY Monitoring Location - EPA' dated 11 June 2020.																		
5	Dust deposition monitoring		North-West of the premises and labelled as "DDG 2" on aerial photo titled 'BASS POINT QUARRY Monitoring Location - EPA' dated 11 June 2020.																		
P1.2	The following utilisation areas referred to in the table below are identified in this licence for the purposes of the monitoring and/or the setting of limits for any application of solids or liquids to the utilisation area.	not triggered																			
P1.3	The following points referred to in the table are identified in this licence for the purposes of the monitoring and/or the setting of limits for discharges of pollutants to water from the point. <table><tr><th>EPA Identification no.</th><th>Type of Monitoring Point</th><th>Type of Discharge Point</th><th>Location Description</th></tr><tr><td>1</td><td>Discharge to waters Water quality monitoring</td><td>Discharge to waters Water quality monitoring</td><td>Upstream end of the Spillway pipe on the drop cut dam (Southern side of the quarry) and labelled as "DP 1" on aerial photo titled 'BASS POINT QUARRY Monitoring Location - EPA' dated 11 June 2020.</td></tr><tr><td>2</td><td>Discharge to waters Water quality monitoring</td><td>Discharge to waters Water quality monitoring</td><td>Eastern side of the quarry and labelled as "DP 2" on aerial photo titled 'BASS POINT QUARRY Monitoring Location - EPA' dated 11 June 2020.</td></tr><tr><td>3</td><td>Discharge to waters Water quality monitoring</td><td>Discharge to waters Water quality monitoring</td><td>Northern side of the quarry and labelled as "DP 3" on aerial photo titled 'BASS POINT QUARRY Monitoring Location - EPA' dated 11 June 2020.</td></tr></table>	EPA Identification no.	Type of Monitoring Point	Type of Discharge Point	Location Description	1	Discharge to waters Water quality monitoring	Discharge to waters Water quality monitoring	Upstream end of the Spillway pipe on the drop cut dam (Southern side of the quarry) and labelled as "DP 1" on aerial photo titled 'BASS POINT QUARRY Monitoring Location - EPA' dated 11 June 2020.	2	Discharge to waters Water quality monitoring	Discharge to waters Water quality monitoring	Eastern side of the quarry and labelled as "DP 2" on aerial photo titled 'BASS POINT QUARRY Monitoring Location - EPA' dated 11 June 2020.	3	Discharge to waters Water quality monitoring	Discharge to waters Water quality monitoring	Northern side of the quarry and labelled as "DP 3" on aerial photo titled 'BASS POINT QUARRY Monitoring Location - EPA' dated 11 June 2020.	Compliant	Annual Review Water Management Plan	Location of Discharge points are detailed in Management Plans. LDP 1 is the main discharge point. LDP 3 has been blocked off and not in use. Site is in stages of removing this from licence in consultation with EPA. LDP 2 passively filters offsite, however this location does not discharge often (is a static dam). Site has had communications with EPA, and no comments raised.	
EPA Identification no.	Type of Monitoring Point	Type of Discharge Point	Location Description																		
1	Discharge to waters Water quality monitoring	Discharge to waters Water quality monitoring	Upstream end of the Spillway pipe on the drop cut dam (Southern side of the quarry) and labelled as "DP 1" on aerial photo titled 'BASS POINT QUARRY Monitoring Location - EPA' dated 11 June 2020.																		
2	Discharge to waters Water quality monitoring	Discharge to waters Water quality monitoring	Eastern side of the quarry and labelled as "DP 2" on aerial photo titled 'BASS POINT QUARRY Monitoring Location - EPA' dated 11 June 2020.																		
3	Discharge to waters Water quality monitoring	Discharge to waters Water quality monitoring	Northern side of the quarry and labelled as "DP 3" on aerial photo titled 'BASS POINT QUARRY Monitoring Location - EPA' dated 11 June 2020.																		
PART 3 - Limit Conditions																					
L1 - Pollution of waters																					

Condition Number	Condition	Compliance	Source of Evidence	Finding	Recommended Action																								
L1.1	Except as may be expressly provided in any other condition of this licence, the licensee must comply with section 120 of the Protection of the Environment Operations Act 1997.	Non-Compliant	EPA Formal warning letter	Section 120 of the POEO Act - Prohibition of pollution of waters (1) A person who pollutes any waters is guilty of an offence. Note : An offence against subsection (1) committed by a corporation is an offence attracting special executive liability for a director or other person involved in the management of the corporation--see section 169. (2) In this section-- "pollute" waters includes cause or permit any waters to be polluted. IEMA have interpreted this as exceedances of criteria. In an letter dated 09/08/2022. On 27 May 2022, the Licensee self-reported a discharge of sediment laden water from a non-licensed discharge point on the north eastern side of the premises. The EPA is of the opinion that HANSON CONSTRUCTION MATERIALS PTY LTD has breached licence condition L1 – Pollution of waters. The EPA has considered the incident in relation to the risk to environmental harm, the licensee's culpability and its response to the non-compliance. In doing so, the EPA has reviewed the corrective actions undertaken by the licensee and relatively low risk of environmental harm from the non-compliance. In these circumstances the EPA considers it appropriate to issue HANSON CONSTRUCTION MATERIALS PTY LTD with a Formal Warning in relation to this breach of licence condition L1.1.	NC - 007																								
L2 - Concentration limits																													
L2.1	For each monitoring/discharge point or utilisation area specified in the table/s below (by a point number), the concentration of a pollutant discharged at that point, or applied to that area, must not exceed the concentration limits specified for that pollutant in the table.	not triggered																											
L2.2	Where a pH quality limit is specified in the table, the specified percentage of samples must be within the specified ranges.	not triggered																											
L2.3	To avoid any doubt, this condition does not authorise the pollution of waters by any pollutant other than those specified in the table/s.	not triggered																											
L2.4	Water and/or Land Concentration Limits POINT 1,2,3 <table><tr><th>Pollutant</th><th>Units of Measure</th><th>50 percentile concentration limit</th><th>90 percentile concentration limit</th><th>3DGM concentration limit</th><th>100 percentile concentration limit</th></tr><tr><td>Oil and Grease</td><td>Visible</td><td></td><td></td><td></td><td>Not Visible</td></tr><tr><td>pH</td><td>pH</td><td></td><td></td><td></td><td>6.5 - 8.5</td></tr><tr><td>Total suspended solids</td><td>milligrams per litre</td><td></td><td></td><td></td><td>50</td></tr></table>	Pollutant	Units of Measure	50 percentile concentration limit	90 percentile concentration limit	3DGM concentration limit	100 percentile concentration limit	Oil and Grease	Visible				Not Visible	pH	pH				6.5 - 8.5	Total suspended solids	milligrams per litre				50	Non-Compliant	Water Monitoring Data Annual Reviews	There were 15 non-compliances associated with surface water discharge in 2022 Additionally, there are 2 non-compliances associated with surface water discharge in 2023. See Schedule 3, C 24b for details of these. On the 27/05/2022 Hanson had an unlicensed discharge off site with TSS 481 mg/L recorded, This was reported to the EPL, and a formal warning was given for the pollution of waters. Further details of this event are detailed in L1.1 above	NC - 010
Pollutant	Units of Measure	50 percentile concentration limit	90 percentile concentration limit	3DGM concentration limit	100 percentile concentration limit																								
Oil and Grease	Visible				Not Visible																								
pH	pH				6.5 - 8.5																								
Total suspended solids	milligrams per litre				50																								
L2.5	The concentration limits stipulated by condition L2.1 for licenced discharge points 1, 2 & 3 is deemed not to apply when the discharge from the stormwater control structures (sediment dams) occurs solely as a result of rainfall measured at the premises which exceeds total of 225 millimetres of rainfall over any consecutive 24 hour period as measured at the Kiama (Bombo) weather station. Note: The Kiama (Bombo) weather station has been deemed as being representative of the site.	Not Triggered		While there was large rainfall events that occurred during the audit period, there was no instance where the rainfall exceeded 225mm in a 24 hour period																									
L3 - Blasting																													
L3.1	The ground vibration peak particle velocity from blasting operations carried out at the premises must not exceed: a) 5 mm/s for more than 5% of the total number of blasts carried out at the premises during each reporting period; and b) 10 mm/s at any time. At "Monitoring Point A - Blast Monitor" or "Monitoring Point B - Blast Monitor" as labelled on the aerial photo titled 'BASS POINT QUARRY Monitoring Location - EPA' dated 11 June 2020.	Compliant	Blast monitoring data	All blasting was within the ground vibration limits during the audit period																									
L3.2	The Airblast overpressure level from blasting operations at the premises must not exceed: a) 115 dB (Lin Peak) for more than 5% of the total number of blasts during each reporting period; and b) 120 dB (Lin Peak) at any time. At "Monitoring Point A - Blast Monitor" or "Monitoring Point B - Blast Monitor" as labelled on the aerial photo titled 'BASS POINT QUARRY Monitoring Location - EPA' dated 11 June 2020.	Non-Compliant	Blast monitoring data	2020 (1 Sept onwards) - Compliant based on Blast records 2021 - Compliant based on Blast records 2022 - Non Compliant - 06/07/2022 2023 - Compliant (Till 6 September) - Compliant based on Blast records See Schedule 3, Condition 7 for further details	NC - 003																								
L3.3	Each production blast must be monitored and recorded.	Compliant	Blast monitoring data	Based on site discussions and data review, all blasts have been recorded. Blast monitoring data is available for the audit period																									
L3.4	The written report must include: a) the time and date of each blast; b) the station(s) at which the noise was measured; c) the ground vibration for each blast; d) the Airblast pressure for each blast; e) evidence that during each twelve (12) month period, a calibration check had been carried out on each blast monitor to ensure accuracy of the reported data; and f) the waveform for the ground vibration and overpressure for each blast that exceeds a ground vibration of 5 mm/sec (peak particle velocity) or an Airblast overpressure of 115 dB (L). The written results of the monitoring must be provided to an authorised officer of the EPA on request and included in the annual return for this licence.	Compliant	Blast reports	Blasts reports detail these requirements.																									

Condition Number	Condition	Compliance	Source of Evidence	Finding	Recommended Action																
L3.5	Blasting operations at the premises may only take place between 8:00am to 5:00pm. (Where compelling safety reasons exist, the Authority may permit a blast to occur outside the abovementioned hours. Prior written (or email) notification of any such blast must be made to the Authority).	Compliant		All blasting during the audit period occurred between the times 8am to 5pm.																	
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.	Non-Compliant		Site inspections highlighted multiple products which were not stored in bunded areas correctly, or removed from site in the following areas: "Boneyard Area" • Empty Sulphuric acid (IBC 1000L) • Multiple empty Hydraulic Oil (IBC 1000L) • Empty Transmission Fluid (IBC 1000L) • Decommissioned machinery was also present in this area with noticeable hydrocarbon's leaking into soil. Note - while the IBC 1000L containers were empty, there was still small amounts of liquids present in all. Workshop • Full Hydraulic Oil (1000L) • Partially full Mobil Gear Oil (1000L) • Multiple unknown oils (1000L)	NC - 008																
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	Transport Management Plan	Driver inductions and Driver Code of Conduct.																	
O3 Dust																					
O3.1	The premises must be maintained in a condition which minimises or prevents the emission of dust from the premises.	Compliant	managed quite well during site inspections check TARPS	During site inspections, dust mitigation methods were witnessed.																	
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	Public website	All monitoring records are available on t he public 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		All records are available on the public website.																	
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	Monitoring Records	Monitoring records during audit period detail this requirement.																	
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:	not triggered																			
M2.2	Water and/ or Land Monitoring Requirements POINT 1,2,3 <table><tr><th>Pollutant</th><th>Units of measure</th><th>Frequency</th><th>Sampling Method</th></tr><tr><td>Oil and Grease</td><td>Visible</td><td>Daily during any discharge</td><td>Inspection</td></tr><tr><td>pH</td><td>pH</td><td>Daily during any discharge</td><td>Grab sample</td></tr><tr><td>Total suspended solids</td><td>milligrams per litre</td><td>Daily during any discharge</td><td>Grab sample</td></tr></table>	Pollutant	Units of measure	Frequency	Sampling Method	Oil and Grease	Visible	Daily during any discharge	Inspection	pH	pH	Daily during any discharge	Grab sample	Total suspended solids	milligrams per litre	Daily during any discharge	Grab sample	Non-Compliant	EPL Monitoring Data	All water sampling data is available during audit period except non-compliance below: On the 04/07/2022 a discharge event from LDP 1 was not collected, as Hanson deemed this too dangerous for collection, as detailed in the EPL monitoring report. IEMA agrees that not sampling due to dangerous conditions is an appropriate and valid response. However, as Hanson did not notify the EPA of this missed sample, the audit team has found BPQ non-compliant for water monitoring requirements for that date. This was reported in the 2022-2023 Annual Return, however Hanson did not notify the EPA at the time that sampling was not conducted due to dangerous conditions. Both PA 08_0143 and EPA 2193 have a timeframe for reporting an incident or exceedance as 7 days. Had Hanson reported the missed sample, this condition would have been compliant.	NC - 015 Recommendation- all missed samples should be notified to the EPA within 7 days as per Condition R2.2. While this missed sample may not have caused environmental harm, this timeframe is a used for reporting incidents or exceedances.
Pollutant	Units of measure	Frequency	Sampling Method																		
Oil and Grease	Visible	Daily during any discharge	Inspection																		
pH	pH	Daily during any discharge	Grab sample																		
Total suspended solids	milligrams per litre	Daily during any discharge	Grab sample																		

Condition Number	Condition	Compliance	Source of Evidence	Finding	Recommended Action																
M2.3	Air Monitoring Requirements POINT 4 <table><tr><th>Pollutant</th><th>Units of measure</th><th>Frequency</th><th>Sampling Method</th></tr><tr><td>Insoluble solids</td><td>grams per square metre per month</td><td>Monthly</td><td>AS/NZS 3580.10.1:2016</td></tr></table> POINT 5 <table><tr><th>Pollutant</th><th>Units of measure</th><th>Frequency</th><th>Sampling Method</th></tr><tr><td>Insoluble solids</td><td>grams per square metre per month</td><td>Monthly</td><td>AS/NZS 3580.10.1:2016</td></tr></table>	Pollutant	Units of measure	Frequency	Sampling Method	Insoluble solids	grams per square metre per month	Monthly	AS/NZS 3580.10.1:2016	Pollutant	Units of measure	Frequency	Sampling Method	Insoluble solids	grams per square metre per month	Monthly	AS/NZS 3580.10.1:2016	Compliant	EPL Monitoring Data Incident Reports	Hanson has provided evidence that air monitoring was carried throughout the audit period. It should be noted that there was two incidence in 2023 where data could not be collected.: DDG 1 - Between June and July 2023 (reported 14/07/2023) DDG 2 - Between July and August 2023 (17/08/2023) Both of these incidents were reported to the EPA. The reason these samples where not recorded was due to stolen or tampered sampling equipment. Based on site communications, Hanson is in the process of installing trail camera to see if a person is tampering with equipment, or if it is due to the local feral deer. No further recommendations regarding the incidents is required.	
Pollutant	Units of measure	Frequency	Sampling Method																		
Insoluble solids	grams per square metre per month	Monthly	AS/NZS 3580.10.1:2016																		
Pollutant	Units of measure	Frequency	Sampling Method																		
Insoluble solids	grams per square metre per month	Monthly	AS/NZS 3580.10.1:2016																		
M3 Testing methods - concentration limits																					
M3.1	Subject to any express provision to the contrary in this licence, monitoring for the concentration of a pollutant discharged to waters or applied to a utilisation area must be done in accordance with the Approved Methods Publication unless another method has been approved by the EPA in writing before any tests are conducted.	Compliant		Noted.																	
M3.2	Monitoring for the concentration of a pollutant emitted to the air required to be conducted by this licence must be done in accordance with: a) any methodology which is required by or under the Act to be used for the testing of the concentration of the pollutant; or b) if no such requirement is imposed by or under the Act, any methodology which a condition of this licence requires to be used for that testing; or c) if no such requirement is imposed by or under the Act or by a condition of this licence, any methodology approved in writing by the EPA for the purposes of that testing prior to the testing taking place. Note: The Protection of the Environment Operations (Clean Air) Regulation 2010 requires testing for certain purposes to be conducted in accordance with test methods contained in the publication "Approved Methods for the Sampling and Analysis of Air Pollutants in NSW".	Compliant		Noted.																	
M4 Recording of pollution complaints																					
M4.1	The licensee must keep a legible record of all complaints made to the licensee or any employee or agent of the licensee in relation to pollution arising from any activity to which this licence applies.	Compliant	Complaints Register	Website has details of all complaints made during the audit period.																	
M4.2	The record must include details of the following: a) the date and time of the complaint; b) the method by which the complaint was made; c) any personal details of the complainant which were provided by the complainant or, if no such details were provided, a note to that effect; d) the nature of the complaint; e) the action taken by the licensee in relation to the complaint, including any follow-up contact with the complainant; and f) if no action was taken by the licensee, the reasons why no action was taken.	Compliant	Complaints Register	Complaints Form details these requirements.																	
M4.3	The record of a complaint must be kept for at least 4 years after the complaint was made.	Compliant		Complaints are available of public website that meets this requirement.																	
M4.4	The record must be produced to any authorised officer of the EPA who asks to see them.	Compliant		Noted.																	
M5 Telephone complaints line																					
M5.1	The licensee must operate during its operating hours a telephone complaints line for the purpose of receiving any complaints from members of the public in relation to activities conducted at the premises or by the vehicle or mobile plant, unless otherwise specified in the licence.	Compliant		Telephone number for complaints is listed on website and register.																	
M5.2	The licensee must notify the public of the complaints line telephone number and the fact that it is a complaints line so that the impacted community knows how to make a complaint.	Compliant	Public Website	Public website details that complaints form and telephone number.																	
M5.3	The preceding two conditions do not apply until 3 months after: the date of the issue of this licence.	Compliant		Noted.																	
M6 Blasting																					
M6.1	Each production blast must be monitored and recorded at "Monitoring Point A - Blast Monitor" and "Monitoring Point B - Blast Monitor" as shown on the aerial photo titled 'BASS POINT QUARRY Monitoring Location - EPA' dated 11 June 2020.	Compliant	Blast Monitoring Data	Blast data lists Monitoring Point A and Monitoring Point B.																	
M6.2	To determine compliance with the blasting limits contained in this licence: (a) Airblast overpressure and ground vibration levels must be measured for all production blasts carried out in or on the premises; and (b) The written record must include: (i) the time and date of each blast; (ii) the station(s) at which the noise was measured; (iii) the ground vibration for each blast; (iv) the Airblast overpressure for each blast; (v) evidence that during the past 12 month period, a calibration check had been carried out on each blast monitor to ensure accuracy of the reported data; and (vi) the waveform for the ground vibration and overpressure for each blast that exceeds a ground vibration of 5mm/sec (peak particle velocity) or an Airblast overpressure of 115dB(L). (c) Instrumentation used to measure the Airblast overpressure and ground vibration levels must meet the requirements of Australian Standard 2187.2 of 2006 or as updated.	Compliant	Blast Monitoring Data	Written blast records detail the requirements of this condition.																	

Condition Number	Condition	Compliance	Source of Evidence	Finding	Recommended Action
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	Annual Returns • 2020-2021 • 2021-2022 • 2022-2023	Hanson has provided evidence of Annual Returns submitted to EPA during reporting period.	
R1.2	An Annual Return must be prepared in respect of each reporting period, except as provided below. 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.	Not Triggered			
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. Note: An application to transfer a licence must be made in the approved form for this purpose.	Not Triggered		Hanson has not transferred licensee to a new licensee.	
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		Hanson has not surrendered the license, nor has the license been revoked.	
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	Annual Returns for Audit Period	20-21 AR - 13/08/2022 (due 13/08/2022). 21-22 AR - submitted 11/08/2022 (due 13/08/2022). 22-23 AR - submitted 09/08/2022 (due 13/08/2022). via eConnect.	
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	Annual Returns	Based on site communications, Hanson have copies of Annual Returns.	
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	Annual Returns for Audit Period	Annual Returns are submitted electronically as per current requirements and signed by delegates of the company.	
R2 Notification of environmental harm					
R2.1	Notifications must be made by telephoning the Environment Line service on 131 555.	not triggered		Based on site communications - no environmental or material harm occurred during the audit period.	
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. 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.	Compliant	Incident Reports	EPA only require notifications of environmental harm. ie (1) For the purposes of this Part— (a) harm to the environment is material if— (i) it involves actual or potential harm to the health or safety of human beings or to ecosystems that is not trivial, or (ii) it results in actual or potential loss or property damage of an amount, or amounts in aggregate, exceeding \$10,000 (or such other amount as is prescribed by the regulations), and (b) loss includes the reasonable costs and expenses that would be incurred in taking all reasonable and practicable measures to prevent, mitigate or make good harm to the environment. (2) For the purposes of this Part, it does not matter that harm to the environment is caused only in the premises where the pollution incident occurs. Hanson has provided evidence of all reporting incidences that occurred during the reporting period. In an event which the EPA classified as Environmental Harm (27/05/2022 - Water Discharge by non licenced discharge point) Hanson notified the EPA within 4 hours of the incident, with additional correspondence evidence between Hanson and EPA occurring.	
R3 Written report					
R3.1	Where an authorised officer of the EPA suspects on reasonable grounds that: a) where this licence applies to premises, an event has occurred at the premises; or b) where this licence applies to vehicles or mobile plant, an event has occurred in connection with the carrying out of the activities authorised by this licence, and the event has caused, is causing or is likely to cause material harm to the environment (whether the harm occurs on or off premises to which the licence applies), the authorised officer may request a written report of the event.	not triggered		Liaised with EPA, however EPA has requested information after Hanson has reported. Some complaints have required an update on the reason - ie blast. This has been provided however not a direct.	
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	Incident reports	Hanson has provided evidence of reports provided to the EPA within the timeframes requested.	
R3.3	The request may require a report which includes any or all of the following information: a) the cause, time and duration of the event; b) the type, volume and concentration of every pollutant discharged as a result of the event; c) the name, address and business hours telephone number of employees or agents of the licensee, or a specified class of them, who witnessed the event; d) the name, address and business hours telephone number of every other person (of whom the licensee is aware) who witnessed the event, unless the licensee has been unable to obtain that information after making reasonable effort; e) action taken by the licensee in relation to the event, including any follow-up contact with any complainants; f) details of any measure taken or proposed to be taken to prevent or mitigate against a recurrence of such an event; and g) any other relevant matters.	Compliant	Incident reports	Written incident reports provided during the audit period have included these.	

Condition Number	Condition	Compliance	Source of Evidence	Finding	Recommended Action									
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.	not triggered												
7 General Conditions														
G1 Copy of licence kept at the premises or plant														
G1.1	A copy of this licence must be kept at the premises to which the licence applies.	Compliant												
G1.2	The licence must be produced to any authorised officer of the EPA who asks to see it.	Compliant												
G1.3	The licence must be available for inspection by any employee or agent of the licensee working at the premises	Compliant												
G2 Other general conditions														
G2.1	Completed Programs	not triggered		Not triggered. Outside audit period.										
<table><tr><th>Program</th><th>Description</th><th>Completed Date</th></tr><tr><td>PRP 1 - Dust Suppression Trial</td><td>PRP 1 - Dust Suppression Trial. Install and operate a non-aqueous dust suppression system to the crushing and screening plant. (*)</td><td>31-July-2006</td></tr><tr><td>PRP 2: Dust Control Equipment Installation</td><td>PRP 2 - Installation of Dust Extracton and Suppression Equipment. Reduce dust emissions during extreme weather conditions. (*)</td><td>30-June-2011</td></tr></table>						Program	Description	Completed Date	PRP 1 - Dust Suppression Trial	PRP 1 - Dust Suppression Trial. Install and operate a non-aqueous dust suppression system to the crushing and screening plant. (*)	31-July-2006	PRP 2: Dust Control Equipment Installation	PRP 2 - Installation of Dust Extracton and Suppression Equipment. Reduce dust emissions during extreme weather conditions. (*)	30-June-2011
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Hanson Construction Materials Pty Ltd					
Audit Period:1 September 2020 - 6 September 2023					
STATEMENT OF COMMITMENTS		Compliance	Source of Evidence	Finding	Recommended Action
Prior to Commencement of Works on Site					
	All relevant licenses and approvals will be obtained. Preparation of a formal Extraction Management Plan to set out the processes of mining and to deal with ongoing operational matters and conditions of consent. The extent of the approved extraction area must be clearly and permanently marked with survey posts by a licensed surveyor. Prior to any demolition or works being undertaken on the site, an accredited asbestos consultant will be engaged to conduct a formal asbestos site audit to: determine if there is any asbestos (and the precise location/extend of asbestos) in accordance with Australian Standard 4964 – „Method For the Qualitative Identification of Asbestos in Bulk Samples’, and, where appropriate prepare a Hazardous Substances Management Plan (HSMP).	Not Triggered		Outside of audit period, and covered in previous audits. Hanson has obtained all relevant licences and approvals.	
Extraction Operations					
	All nearby residents, the Council and relevant community groups (i.e. the Killalea Trust) will be provided with the contact details of a site management representative and relevant procedures for contact in the event of complaints. All extraction and associated activities (blasting etc.) will be undertaken only in the hours specific within this Environmental Assessment Extraction will extend to a maximum depth of no greater than -40m AHD over the approved areas of extraction operations will be undertaken in accordance with the staging as set out in the Martens and Associates letter dated 8 July 2013 (in order to ensure the protection of the water level within the nearby SEPP 14 wetlands), which comprises of: * Stage 1 - lowering of both pits to a level of 0mAHD. On reaching 0mAHD in each pit a series of test excavations must be made to a depth of 5 – 10 m below the pit floor (i.e. -5 to – 10mAHD). These must be monitored to assess the rate of ingress of water and to allow for further testing and characterisation of the underlying groundwater system. * Stage 2 - provided acceptable outcomes of monitoring of the excavated test holes the pits must be lowered by 10 m to -10 m AHD. Again test excavations must be made in the base of the extraction pits to 5 to 10 m below the floor. * Stage 3 - provided acceptable outcomes of monitoring of the excavated test holes the pits must be lowered by 15 m to -25 m AHD. Again test excavations must be made in the base of the extraction pits to 5 to 10 m below the floor. * Stage 4 - provided acceptable outcomes of monitoring of the excavated test holes the pits must be lowered to the base of the resource or to -40mAHD (whichever is muster).	Compliant	Annual Reviews, website	As detailed on the company website, and during site discussions, Hanson is still in Stage 1 operations.	
	Further to the proposed staging of the quarry as outlined above and review of comments from submissions it is further proposed that site water management strategies be modified so that: * Both pits must not be dewatered concurrently to – 40mAHD. Staged stepwise resource extraction of the two pits will mean that the peak groundwater inflows occur when the eastern pit is at –40mAHD and the western pit is at –25mAHD. * During resource extraction of western pit to –40mAHD inflowing groundwater must be transferred to the eastern pit previously excavated to -40mAHD. This must mean both the recovery phase and the period of discharge of water to the ocean must be reduced. The above proposed discharge conditions and the amended quarry staging and groundwater inflow management strategy must further mitigate against any adverse influences on the Bushrangers Bay Aquatic Reserve.	Not Triggered	Sire still in Stage 1, therefore not triggered		
Ecology					
	A Vegetation Management Plan will be developed for the site which details the rehabilitation, restoration and ongoing maintenance (including weed management) of vegetation retained within the site; A Threatened Species Management Plan will be developed in relation to the population of <i>Pimelea spicata</i> and the two Endangered Ecological Communities which occur on the site; Vegetation to be removed is to be clearly marked in the field using temporary fencing (flagging tape or similar exclusion tape) so that boundaries are clearly established and tominimise the potential for equipment to accidentally enter areas to be retained; An ecologist is to be present to supervise any vegetation clearing within the site and that occurs within 20 metres of a mapped wetland area;	Compliant	Section 8 and Section 11 of the Landscape Management Plan	Requirements of this condition are detailed in the Landscape Management Plan.	
Aboriginal Archaeology					
	Liaison established with the registered Aboriginal stakeholders and other interested parties as per the DECCW Interim Community Consultation Guidelines for Applicants (2004) during this project will be maintained as necessary. If it is suspected Aboriginal cultural heritage material has been encountered, work will cease immediately. The Department of Environment, Climate Change and Water (DECCW) and the Illawarra Local Aboriginal Land Council will be notified. Works will only recommence when an appropriate and approved management strategy has been agreed to by all of the relevant stakeholders. If evidence of any previously unidentified non-indigenous heritage items and/or archaeological relics are found within the project area all work likely to affect the sites) must cease immediately and, in accordance with section 146(a) of the ‘Heritage Act, 1977’ the Heritage council of NSW is notified within a reasonable time of the discovery or location of any relics. In the event that skeletal remains are uncovered whilst operations are underway, work will stop in the vicinity immediately and the NSW Coroner’s Office and NSW Police contacted. If skeletal remains are deemed to be of Aboriginal origin, a representative of the local Aboriginal Community (ILALC) and the DECCW are to be contacted.	Compliant	Heritage Management Plan	Heritage Management Plan details consultation with Aboriginal stakeholders the processes involved if an item is discovered . Heritage due diligence survey that was completed in 2020 (check dates).	
European Heritage					
	If the dry stone wall identified on the site is to be adversely affected by any works on site then the wall will be appropriately recorded. The wall will be measured and recorded in accordance with NSW Heritage Council guidelines.	Not Triggered	Heritage Management Plan Annual Reviews	Heritage Management Plan outlines the process should Hanson conduct works near or on the wall. No work has occurred near the dry stone wall during the audit period. This dry stone wall is outside the extraction zone and not likely to be impacted in future works.	
Noise and Blasting Impacts					

STATEMENT OF COMMITMENTS		Compliance	Source of Evidence	Finding	Recommended Action
	It is recommended, in accordance with the Industrial Noise Policy, that management procedures are implemented including: * Noise monitoring on site and within the community. * Prompt response to any community issues of concern. * Refinement of on-site noise mitigation measures and quarry operating procedures, where practical. * Discussions with relevant property holders to assess concerns. * Consideration of acoustical mitigation at the receivers. * Consideration of negotiated agreements with property holders. Note that these will be implemented as appropriate in addition to any other noise and blasting amelioration measures included within the Noise & Blast Impact Assessment	Compliant	Noise and Blast Management Plan	Noise and Blast management is covered in the equivalent Management Plan.	
Air Quality					
	* Routine water spraying of haul routes and unsealed surfaces will be undertaken; * Water spraying of stockpiles and stockpile transfer points will be undertaken; * Full and partial enclosure of conveyors will be undertaken where possible ; * Underground loading of conveyors from stockpiles will be incorporated into the design and placement of conveyors where possible; and * Enclosure of crushers will be undertaken where possible. * Maintaining a high level of repair and servicing for all trucks associated with the quarry, * Minimise the amount of exposed surfaces and stockpiles where possible. * Revegetation of any bunding and exposed areas to minimise erosion from these areas. * Regular maintenance of BPQ haul routes, both unsealed and sealed, will be continued (to the extent that this is the responsibility of the Bass Point Quarry operations).	Compliant	management appears to follow AQMP	Verified during site inspection. Hanson has 2 watercarts onsite for the spraying of roads. Material is fed into processing plant via a concrete tunnel, which minimises dust emissions. Site stockpiles generally have established mix of trees and exotics which minimise dust generations.	
Energy Efficiency and Greenhouse Gas Assessment					
	* Appropriately sized, high efficiency motors will be used on all pumps, crushers & equipment. * Variable speed drives (VSD's) will be provided on electric motors in order to ensure energy savings and to deal with the results of varying loads on equipment. * Timer switches will be provided for relevant electrical appliances across the site and sensor lights installed to reduce energy use. * The fuel economy and energy use of vehicles and equipment will be considered when sourcing new vehicles/equipment for the operation. * Idling time for vehicles must be minimised by ensuring that vehicles are turned off during breaks in their use. * Regular servicing of vehicles and equipment will be undertaken, including maintaining optimum tyre pressures, to optimise fuel economy for vehicles and maximum energy efficiency for other site equipment. * Driver training will be undertaken to ensure that all vehicles and equipment is operated at maximum efficiently. * Appropriate day-to-day management of quarrying activities will ensure that double handling of materials is minimised. * Use of alternative fuels (such as biodiesel) and fuel additives will be investigated for the proposed development.	Compliant	Service and maintenance records	Based on site communications, not issues determined, Evidence of servicing. Evidence of fuel additives.	
Geotechnical					
Soil Excavation – Mound					
	All organic top-soils will be stripped in the area of the mound and stockpiled for rehabilitation and landscaping uses. Soil overburden required to be excavated without structural supports will have a permanent batter slope of 1 (vertical): 2 (horizontal). Alternatively, an appropriately designed retaining structure may be used.	Not Triggered		Recent arears that have been cleared contained overburden.	
Fill Placement – Mound					
	* Fill is to be placed to construct the mound in accordance with the geotechnical report. It is understood that the only permanent structure constructed on the mound will be the quarry access road. The following specifications are provided in light of this: * Underlying materials supporting mound are to be a minimum stiff clay (or weathered rock), proof rolled with a minimum 12 t static drum roller prior to placement of fill. * Engineered fill should be placed in layers of a maximum of 300 mm loose thickness and compacted (as specified herein). For granular materials, a minimum ID of 75 % should be achieved. For clayey soils (e.g. including weathered sandstone/shale), engineered fill should be compacted to minimum 95% SMDD, and 98% SMDD for a minimum of 10.5m below pavement, as per AS 3798 (2007). * Final fill batters should not exceed 1V:3H. * Final surface should be free-draining to prevent excessive ingress of water. * Should groundwater ingress through rock be observed then a subsoil drainage system may be required prior to placement of fill.	Compliant	engineering designs	Visual bunds are engineer designed.	
Rock Excavation - Quarry					
	Based on slope stability modelling, excavation batter slopes will be constructed up to a maximum of 8V:1H Batter slopes to be cut in at a maximum of 15 metres deep increments with 5-metre wide benches between each increment. Benches will be graded to ensure stormwater, seepage and groundwater drain off the bench towards the desired location (outside edge). If batter slopes show signs of failure then excavations are to stop immediately and a geotechnical engineer will be consulted to determine appropriate action.	Compliant	Geotech reports	Average bench height based on site communications is that bench heights 15m.	
Retaining Structures					
	Any retaining structures to be constructed as part of site works will be backfilled with suitable free-draining materials and include suitable drainage measures, such as a geotextile enclosed 100 mm agricultural pipe, to redirect water that may collect behind the retaining walls.	Not Triggered			
Hydrogeological					

STATEMENT OF COMMITMENTS		Compliance	Source of Evidence	Finding	Recommended Action
	The following modifications to the project and additional commitments are suggested as means of addressing matters raised through consultation: 1. Modified staging as detailed above. Resource extraction in pits to proceed concurrently to levels as detailed (0mAHD, -10mAHD, - 25mAHD, - 40mAHD). Each deepening of the pit must be approved subject to NSW DOPi assessment of findings of monitoring information during the previous stage and their determination that impacts are acceptable or have been adequately mitigated. 2. Following lowering to each of the prescribed pit levels 5 – 8 test holes are to be blasted to 5 – 10 m below the floor of the pit. These holes are to be monitored for the duration of pit lowering on the alternate pit to assess impacts on local aquifer and to provide further information to validate the project model. 3. Monitoring of each excavated test hole is to include: a) Continuous water level monitoring. b) Continuous salinity monitoring. c) Draw down pumping and monitoring of flow to assess likely inflow to subsequent stages. 4. The preparation and implementation of a Killalea Lagoon Monitoring Program. This program is to be developed in consultation with NSW Office of Water and NSW EPA to the satisfaction of the Director General of the Department of Planning and Infrastructure. The program is to be implemented prior to the commencement of lowering of either pit below 0mAHD. The plan is to provide for the following as a minimum: a) Establishment of a permanent monitoring location within Killalea Lagoon instrumented to allow continuous monitoring of lagoon water level and salinity. b) Ongoing monitoring of site rainfall to allow for calibration of site water balance assessment. c) Annual reporting of the findings of the monitoring and review and analysis of the site water balance. d) Development of a typical rainfall response relationship for Killalea Lagoon against which assessment of quarry extension impacts on the lagoon rainfall response may be assessed.	Not Triggered			
Surface Water & Stormwater Management					
	A detailed site Water Management Plan will be prepared for the Project. This plan must be prepared in consultation with NSW Office of Water and NSW EPA to the satisfaction of the Director General of the Department of Planning and Infrastructure. The plan must include: a. Establishment of a monitoring program for site water resources. Monitoring is to include as a minimum: • Flow and water quality (TSS) at proposed ocean discharge point for at location identified and licensed under the site EPL. • Discharge from quarry void dewatering pumps. • Metering of town water inflows to the site. • Metering of wastewater discharges (sewage). b. The maintenance of a water balance model covering the site and Killalea Lagoon, this balance is to be annually assessed. The model must take account of water inflows and discharges from the site and is to allow for the informed assessment of environmental monitoring data. The water balance must document the following: • Rainfall inputs to quarry voids and Killalea Lagoon. • Estimated evaporative losses from quarry voids and Killalea. • Uses of water within the quarry operation. • Discharge from quarry void to licensed outlet and transfers between voids. • All other inflows and outflows from the quarry. • Estimates of groundwater inflows to quarry void based on balance of other inflow, outflows and losses. c. Assessment of licensing requirements and details of any Water Access Licences (WALs) in place. d. Requirement for annual reporting of the findings of the monitoring and review and analysis of the site water balance.	Non-Compliant	Water Balance Assessment Surface Water Management Plan	Hanson has failed to undertake yearly updates of the Water Balance Report as self reported in the 2020-2022 Annual Reviews. - Non Compliant for Condition B.	NC - 009
Contamination					
	Once project approval has been granted, a Preliminary Site Contamination Assessment (PSCA) will be undertaken to screen the areas of potential contamination. Should this screening identify contamination then a Stage 2 contamination assessment is to be undertaken. Any identified contamination is to be dealt with in accordance with the recommendations of the contamination assessment process.	Not Triggered		Outside audit period.	
Sediment & Erosion Control Measures					
	The recommendations of the submitted Sediment and Erosion Control Plan, Geotechnical Assessment, Hydrogeological Assessment, and Wastewater Assessment will be adopted in the sites ongoing Environmental Management Plans and Strategies. In particular those related to ecology, surface water and stormwater management, and sediment and erosion control detailed in sections 8.1, 8.10, 8.12 and 10 of the EA. All the proposed safeguards and mitigation actions listed in the EA and Appendices (including the Flora and Fauna Assessment, Surface Water and Stormwater Assessment and the Sediment and Erosion Control Plan) will be included in any ongoing Environmental Management Plans and Strategies and fully implemented by the proponent and its contractors. Strict erosion and sediment control measures will be installed, monitored and maintained;	Compliant	Surface Water Management Plan	Noted.	
Sediment Basin Maintenance					
	The following procedures will take place to ensure the proper operation and maintenance of the sediment basin: * The basin(s) will be inspected monthly. * The accumulated sediment depth will be checked to ensure remaining storage capacity meets storage specifications. * Sediment must be removed and the basin restored to its original dimensions when sediment accumulation has filled nominated sediment storage depth. The removed sediment must be deposited on the site outside of concentrated flow paths, be allowed to dewater and then be used in site rehabilitation works.	Compliant	Surface Water Management Plan	Section 3.4 of the Surface Water Management Plan. Generally the erosion has been managed as per the surface water management plan. Audit team has found some additional improvements for the erosion control - see IR 001. Pit acts the main sediment dam, which has adequate storage.	
Killalea Lagoon					
	Local armouring works required for any outflow into the catchment of Killalea Lagoon will be situated within Lot 22; to reduce the flow rate to a flow rate which does not cause erosion on the adjoining Crown land; and to be within the water qualities specified in the submitted Surface Water Assessment.	Not Triggered		The area is now stable and rehabilitated. There is a small sediment dam to manage any dirty water.	
Contingency					

STATEMENT OF COMMITMENTS		Compliance	Source of Evidence	Finding	Recommended Action
	If NSW EPA EPL conditions are not met with the revised SECP measures then sediment and erosion control management at the site is to be reviewed and changes are to be made to ensure license conditions are met.	Not Triggered			
Wastewater/Effluent Disposal					
	An appropriate effluent disposal area with an area of not less than 1323 m2 will be provided for effluent irrigation in order to assimilate the applied hydraulic and nutrient loads. This area will be located within the north eastern corner of the site, currently occupied by the processing plant. Appropriate soil material will be imported to this area to provide for appropriate effluent disposal capabilities.	Compliant		Based on site communications - BPQ has a council approved effluent disposal area.	
Waste Management					
	All wastes from the site are to be managed in accordance with the completed Waste Management Plan (Attachment 18 of the EA). All hazardous wastes (including asbestos) to be handled and disposed of in the appropriate manner, in accordance with all relevant requirements. Prior to any demolition or works being undertaken on the site, an accredited asbestos consultant will be engaged to conduct a formal asbestos site audit to: * determine whether there is any asbestos within the existing buildings and to identify the precise location/extend of asbestos in accordance with Australian Standard 4964 – „Method For the Qualitative Identification of Asbestos in Bulk Samples'. And, where appropriate prepare a Hazardous Substances Management Plan (HSMP). The asbestos waste consultant will be appropriately experienced and accredited with suitable licensing from WorkCover NSW. All works will be undertaken by a suitably qualified consultant.	Compliant		Hanson manages waste with a licenced contractor. Note asbestos was found on site, and was removed by an approved contractor to a licences facility.	
Traffic & Transport					
	Identified hazards along the quarry haul road will be removed.	Compliant		Haul road is clear of hazards during site inspection. Records of road maintenance also provided for audit period.	
Social & Economic					
	The operator of the quarry will continue to keep neighbours informed of the proposed works, including a regular newsletter to advise of any construction works, particularly those relating to demolition of existing buildings, blasting or other works near to the boundary. Prior to any works commencing, all adjoining neighbours will be provided with the contact details of a quarry manager or other suitable staff member who will act as the initial point of contact for any complaints. Hanson will provide contact details to Council staff in the event that any complaints are made directly to Council	compliant		Based on site communications - there has been regular communications with the CCC. The most recent newsletter was 2019, however the quarterly CCC minutes are published on the website.	
Killalea State Park					
	Hanson is prepared to provide for a footbridge over the haul road to the link the park with open space planned to north of the haul road. Hanson is willing to discuss the matter further with the Killalea State Park Trust in due course.	Not Triggered		Hanson advised that council have already constructed a bridge, which contains a footbridge over the haul road.	
APPENDIX 6					
NOISE COMPLIANCE ASSESSMENT					
Applicable Meteorological Conditions					
1	The noise criteria in Table 1 of the conditions are to apply under all meteorological conditions except the following: (a) during periods of rain or hail; (b) average wind speed at microphone height exceeds 5m/s; (c) wind speeds greater than 3 m/s measured at 10 m above ground level; or (d) temperature inversion conditions greater than 3°c/100 m.				
Determination of Meteorological Conditions					
2	Except for wind speed at microphone height, the data to be used for determining meteorological conditions must be that recorded by the meteorological station on or in the vicinity of the site.				
Compliance Monitoring					
4	Unless otherwise agreed with the Secretary, this monitoring is to be carried out in accordance with the relevant requirements for reviewing performance set out in the NSW Industrial Noise Policy (as amended from time to time), in particular the requirements relating to: (a) monitoring locations for the collection of representative noise data; (b) meteorological conditions during which collection of noise data is not appropriate; (c) equipment used to collect noise date, and conformity with Australian Standards relevant to such equipment; and (d) modifications to noise data collected including for the exclusion of extraneous noise and/or penalties for modifying factors apart from adjustments for duration.				

APPENDIX F

Audit Report Declaration Form

Independent Audit Report Declaration Form	
Project Name	Bass Point Quarry
Consent Number	MP 08_0143
Description of Project	Hard Rock Quarry (aggregate)
Project Address	Bass Point Quarry Rd, Shell Cove NSW 2529
Proponent	Hanson
Title of Audit	Hanson – Bass Point Quarry Independent Environmental Audit 2023
Date	01/12/2023
I declare that I have undertaken the Independent Audit and prepared the contents of the attached Independent Audit Report and to the best of my knowledge: i. the audit has been undertaken in accordance with relevant condition(s) of consent and the Independent Audit Compliance Requirements (Department 2019); ii. the findings of the audit are reported truthfully, accurately, and completely; iii. I have exercised due diligence and professional judgement in conducting the audit; iv. I have acted professionally, objectively and in an unbiased manner; v. I am not related to any proponent, owner, or operator of the project neither as an employer, business partner, employee, or by sharing a common employer, having a contractual arrangement outside the audit, or by relationship as spouse, partner, sibling, parent, or child; vi. I do not have any pecuniary interest in the audited project, including where there is a reasonable likelihood or expectation of financial gain or loss to me or spouse, partner, sibling, parent, or child; vii. neither I nor my employer have provided consultancy services for the audited project that were subject to this audit except as otherwise declared to the Department prior to the audit; and viii. I have not accepted, nor intend to accept any inducement, commission, gift, or any other benefit (apart from payment for auditing services) from any proponent, owner or operator of the project, their employees, or any interested party. I have not knowingly allowed, nor intend to allow my 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 Auditor	Chris Jones
Signature	
Qualification	Principal Auditor (Environmental Management Systems Auditor) Exemplar Global
Company	IEMA
Company Address	41 Llewellyn Street Merewether NSW 2291