



**YOUR  
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ENVIRONMENTAL  
PARTNER**

**TWEED SAND PLANT  
ALTONA ROAD, CUDGEN NSW 2487  
INDEPENDENT ENVIRONMENTAL AUDIT  
MOD 1 OF DEVELOPMENT CONSENT DA 152-6-2005**



**CLIENT**  
Hanson Construction Materials Pty Ltd  
September 2021

## DOCUMENT INFORMATION

### Contact Details:

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MRA Environmental  
Suite 1/37 Commerce Drive  
ROBINA QLD 4226  
ABN: 21 082 910 218

MRA Environmental  
PO BOX 480  
ROBINA QLD 4226

areiser@mraenvironmental.com.au

Project Manager:  
Allison Reiser  
P 07 5578 7040  
E areiser@mraenvironmental.com.au

### Client Details:

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Client: Hanson Construction Materials Pty Ltd  
Client contact: Murray Graham  
Client Phone: 07 3246 5554

### Document Details:

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Title: Independent Environmental Audit  
Tweed Sand Plant  
Altona Road, Cudgen NSW 2487

Project Number: MRA21-101

Revision	Date	Author	Reviewed By	Issued By
V.1	20 September 2021	A Reiser	M Rigby	A Reiser

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Destination	Draft	Final
Hanson Construction Material Pty Ltd	V.1	V.1
MRA Environmental	V.1	V.1

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## LIMITATIONS

Mark Rigby & Associates Pty Ltd has prepared this Independent Environmental Audit Report for Hanson Construction Material Pty Ltd in relation to their operations at Tweed Sand Plant, located on Altona Road, Cudgen NSW.

We have performed our services for this project in accordance with our current professional standards. No other warranty, expressed or implied is made as to the professional advice included in this submission.

Opinions and judgements expressed herein, which are based on our understanding and interpretation of current regulatory standards, should not be construed as legal opinions. The report may also contain comments and information provided by others. Mark Rigby & Associates cannot take responsibility for advice provided by any third party.

This document has been prepared for the sole purpose of Hanson Construction Material Pty Ltd as a Third Party Independent Environmental Audit as at September 2021 as required by the NSW Department of Planning, Industry and Environment MOD 1 of Development Consent (DA 152-6-2005) and may not contain sufficient information for the purposes of other parties, for other uses, other years or at other locations.

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## ATTACHMENTS

- ATTACHMENT A** - Secretary Endorsement of Audit Team
- ATTACHMENT B** - MRA Environmental Capability Statement
- ATTACHMENT C** - MRA Environmental Audit Report Certification

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## **1.0 INTRODUCTION**

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On the 31<sup>st</sup> July 2006, Hanson Construction Materials Pty Ltd (Hanson) was granted Development Consent (DA 152-6-2005) for the Tweed Sand Quarry (referred to as the Tweed Sand Plant herein), for the production or transport of up to 150,000m<sup>3</sup> of sand products from the site per year. This Development Consent allowed for continued operation of existing sand quarrying activities at the site and granted approval for expansion into Phases 3 and 4 of operations. On the 20<sup>th</sup> August 2018, the New South Wales Department of Planning, Industry & Environment issued a Notice of Modification to the Development Consent (referred to as MOD 1 herein) that allowed the site to produce and transport up to 500,000 tonnes of sand products from the site per financial year.

The Tweed Sand Plant is located on Altona Road, Cudgen NSW on Lot 22 DP 1082435, Lot 23 DP 1077509 and Lot 494 DP 720450 and has a total area of approximately 78 hectares (ha) of which 46 ha is approved for extraction. The site is located within a largely agricultural area, approximately 1km west of Cudgen. Agricultural land generally surrounds the site, with rural residential properties to the south/south-east and the Cudgen Lakes Sandy Quarry adjacent to the site to the east.

The extraction of sand from the subject site is by means of a single dredge which is linked to the onshore wash plant via a floating flow line. There is a nominal maximum extraction depth of 20 metres, and production has been 204,023 tonnes, 243,577 tonnes and 214,932 tonnes annually over the last three years, respectively.

Sand resources are processed in the wash plant which incorporates a hydro-cyclone to separate fines from the sand. Excess water and fines are then transferred back to the extraction lake via a pipeline. Sand product is then stockpiled on-site in designated areas with dust suppression systems in place, prior to loading and dispatch to customers. Weighbridge software is used to record product weight and the date/time that sand is transported from the site. Standard transport routes in accordance with MOD 1 conditions apply and involve travelling from the site on Altona Road, onto Crescent Street then onto the Tweed Coast Road before generally heading north or south along the Pacific Highway to the customer's location.

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## **2.0 METHODOLOGY**

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### **2.1 AUDIT OBJECTIVES**

The main objective of the Independent Environmental Audit (IEA) was to assess the level of compliance of Hanson's operations at the Tweed Sand Plant against the conditions within both the MOD 1 of Development Consent (DA 152-6-2005) and the NSW EPA Licence No: 11453.

### **2.2 AUDIT SCOPE**

The physical boundaries of the IEA were limited to Hanson's operations at Altona Road, Cudgen. Information and documentation considered within the IEA is from the date of issue of MOD 1 of Development Consent (DA 152-6-2005) being the 20<sup>th</sup> August 2018 up until the 20<sup>th</sup> September 2021.

Please note that the previous IEA report was issued in July 2018 and assessed compliance against the original Development Consent conditions. MOD 1 was issued in August 2018, therefore this is the first IEA undertaken in relation to MOD 1.

For clarity, compliance with the following approvals held by Hanson for the Tweed Sand Plant was assessed during this audit:

- MOD 1 of Development Consent (DA 152-6-2005) issued by the NSW Department of Planning, Industry & Environment dated 20<sup>th</sup> August 2018; and
- Environment Protection Licence No: 11453 issued by the NSW Environment Protection Agency dated 28<sup>th</sup> September 2020 (under Notice of Variation).

### **2.3 AUDIT CRITERIA**

Schedule 5 Condition 14 of MOD 1 of Development Consent (DA 152-6-2005) requires Hanson to undertake an IEA to assess compliance with the conditions of the Development Consent within one (1) year of the commencement of quarrying operations, and every three (3) years thereafter unless directed or agreed to otherwise by the Secretary.

Schedule 5 Condition 14 of MOD 1 forms the basis of the audit criteria, and outlines that the IEA must:

- a) be led and conducted by a suitably qualified, experienced, and independent team of experts whose appointment has been approved by the Secretary;
- b) include consultation with the relevant agencies and the Community Consultative Committee;
- c) assess the environmental performance of the development and whether it is complying with the relevant requirements in this consent and any relevant EPL or water licences for the development (including any assessment, plan or program required under these approvals);

- d) review the adequacy of any strategies, plans or programs required under these approvals; and
- e) recommend appropriate measures or actions to improve the environmental performance of the Development, and/or any assessment, strategy, plan or program required under the abovementioned approvals; and
- f) be conducted and reported to the satisfaction of the Secretary.

## 2.4 AUDIT TEAM

As required by Schedule 5 Condition 14 of MOD 1, the IEA is to be conducted by a suitably qualified, experienced, and independent person(s) whose appointment has been approved by the Secretary. Please refer to **Attachment A** which includes Secretary approval for Mark Rigby and Allison Reiser of Mark Rigby & Associates Pty Ltd (MRA Environmental) to undertake the audit.

A company Capability Statement has also been included in **Attachment B** and contains details of relevant works completed over the past twenty (20) years. Mark and Allison conducted the site audit together for this project.

A summary of each audit team member is provided below.

### Mark Rigby – Project Manager

Mark is a Director and Founder of MRA and has over thirty-eight (38) years of experience in the environmental management profession. He has extensive experience in environmental auditing (Registered Auditor 15303), environmental management and reporting across a variety of projects including resource extraction, manufacturing, private and public sector landfill and resource recovery operations.

### Allison Reiser– Senior Environmental Consultant & Lead Auditor

Allison has over twenty-five (25) years of experience in the environmental management profession. She has past employment experience with Local Government, State Government (EPA) and the private sector. She is an Exemplar Global registered lead environmental auditor (Certificate No. 119876) and has extensive experience in environmental management system and ERA auditing.

## 2.4 ENVIRONMENTAL AUDIT PROCESS

The audit was undertaken at the Tweed Sand Plant located at Altona Road, Cudgen over a one (1) day period on 29th June 2021.

The audit involved a systematic, independent and documented process for obtaining audit evidence and evaluating it objectively to determine the extent to which the operations comply with the conditions within both the MOD 1 of Development Consent (DA 152-6-2005) and the NSW EPA Licence No: 11453.

The audit was undertaken in the presence of and with the assistance of Hanson representatives including:

- Murray Graham (Development Manager);
- Nick Dennis (Enviro Compliance & Planning Coordinator); and
- Justin Munro (Tweed Sand Plant Manager).

The audit was completed by undertaking the following key tasks:

**Task 1 – Desk-top Assessment of Documents** including:

- Review of conditions within MOD 1 of Development Consent (DA 152-6-2005) dated 20 August 2018;
- Review of development layout plans and drawings, the Environmental Management Strategy and Management Plans referenced in the Development Consent;
- Review of conditions within the NSW EPA Licence No: 11453 dated 28th September 2020 (under Notice of Variation);
- Review of available environmental monitoring data;
- Confirmation of scope and objectives of audit with client; and
- Preparation of audit checklist.

**Task 2 – Site visit** including:

- Pre-audit teleconference to confirm audit scope / objectives / schedule / audit participants;
- Review and analysis of relevant development and operations documentation and data;
- An inspection of site activities to verify compliance (or otherwise);
- Discussion with relevant site personnel;
- Assessment of compliance with each MOD 1 of Development Consent (DA 152-6-2005) & NSW EPA Licence No: 11453 conditions; and
- Post-audit meeting to review audit findings and discuss any corrective action recommendations.

**Task 3 – Preparation of Independent Environmental Audit report** including:

- Introduction;
- Audit Methodology including Objectives, Scope and Criteria;
- Audit Findings, Compliance Status for each condition, Risk Level and Recommendations; and
- Independent Audit Report Certification.

## 2.5 AUDIT REPORT FORMAT

An Audit Checklist was prepared based on all conditions within the above-referenced approvals. This checklist re-states each Development Consent/EPA Licence condition and includes columns for comments, compliance status, observation or recommendations (where appropriate) relating to each condition. Where applicable, a reference to the witnessed document has also been provided.



Based on this checklist, the Audit Findings are tabulated in the below format and are provided in full in **Section 4.0 Environmental Audit Findings**.

The Audit Findings have been presented in the following format:

CONDITION	Comment	Compliance Status	Observation of Recommendation
Re-statement of the condition	Summary of the general comment/ non-compliance/ opportunity for improvement identified on-site.	If non-compliant, the cell will be colour code to reflect the level of risk as per Section 2.5 criteria.	Recommendation to achieve compliance  Observation for continuous improvement consideration


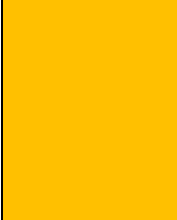
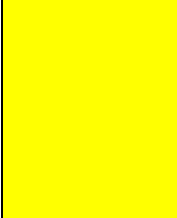

The following compliance assessment criteria were applied to each Development Consent/ EPA Licence condition:

Assessment	Criteria
<b>Compliant</b>	Where the auditor has collected sufficient verifiable evidence to demonstrate that the intent and all elements of the requirement of the regulatory approval have been complied with within the scope of the audit.
<b>Not verified</b>	Where the auditor has not been able to collect sufficient verifiable evidence to demonstrate that the intent and all elements of the requirement of the regulatory approval have been complied with within the scope of the audit. In the absence of sufficient verification, the auditor may in some instances be able to verify by other means (visual inspection, personal communication, etc.) that a requirement has been met. In such a situation, the requirement should still be assessed as not verified. However, the auditor could note in the report that they have no reasons to believe that the operation is non-compliant with that requirement.
<b>Non-compliant</b>	Where the auditor has collected sufficient verifiable evidence to demonstrate that the intent of one or more specific elements of the regulatory approval have not been complied with within the scope of the audit.
<b>Administrative non-compliance</b>	A technical non-compliance with a regulatory approval that would not impact on performance and that is considered minor in nature (e.g. report submitted but not on the due date, failed monitor or late monitoring session). This would not apply to performance-related aspects (e.g. noise management plan not prepared and submitted for approval).
<b>Not triggered</b>	A regulatory approval requirement has an activation or timing trigger that had not been met at the time of the audit inspection, therefore a determination of compliance could not be made.
<b>Observation</b>	Observations are recorded where the audit identified issues of concern which do not strictly relate to the scope of the audit or assessment of compliance. Further observations are considered to be indicators of potential non-compliances or areas where performance may be improved.
<b>Note</b>	A statement or fact, where no assessment of compliance is required.

The terms “partial compliance” or “partial non-compliance” or similar are not used.

Where conditions are assessed as Non-Compliant/Administrative Non-Compliance or there is a pertinent General Comment or Observation identified, these have been summarised in separate tables included in **Section 3.3** and **Section 3.8** of this report for easy reference.

The following risk levels were applied to any non-compliance with a Development Consent/ EPA Licence condition:

Risk level	Colour code	Description
<b>High</b>		Non-compliance with potential for significant environmental consequence, regardless of the likelihood of occurrence.
<b>Medium</b>		Non-compliance with: <ul style="list-style-type: none"><li>• Potential for serious environmental consequences, but is unlikely to occur; or</li><li>• Potential for moderate environmental consequences, but is likely to occur</li></ul>
<b>Low</b>		Non-compliance with: <ul style="list-style-type: none"><li>• Potential for moderate environmental consequences, but is unlikely to occur; or</li><li>• Potential for low environmental consequences, but is likely to occur</li></ul>
<b>Administrative non-compliance</b>		Only to be applied where the non-compliance does not result in any risk of environmental harm (e.g. submitting a report to government later than required under approval conditions)

## 2.6 AUDIT REPORT CERTIFICATION

MRA Environmental have certified the findings in this audit report by the provision of an Independent Audit Certification Form in **Attachment C**.

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## 3.0 SUMMARY OF AUDIT FINDINGS & RECOMMENDATIONS

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### 3.1 AGENCY AND COMMUNITY CONSULTATION

Consultation with relevant agencies involved with the Development was initiated by email correspondence sent on 21<sup>st</sup> June 2021. Agencies and the Community Consultative Committee were advised that an Independent Environmental Audit was underway and were invited to provide feedback and draw the auditor's attention to any key issues within the scope of the audit.

Organisations contacted during the consultation process included:

- Dept of Planning, Industry & Environment;
- NSW Environmental Protection Agency;
- Department of Resources & Energy;
- NSW Office of Environment and Heritage;
- Tweed Shire Council; and
- Chair of the Community Consultative Committee (CCC).

The following three (3) responses were received during the consultation process:

1. Received 21<sup>st</sup> June 2021 from the Chair of the CCC advising that *"there are no issues that I need to comment upon. The company has readily provided all necessary information for the CCC members to consider or be informed of. The information relates to both compliant and non compliant issues and where non compliant, action taken for resolution, including reporting to various agencies. Consultants engaged by the company have attended meetings to report upon relevant matters."*; and
2. Received 22<sup>nd</sup> June 2021 from DPIE Planning Services advising that post-approval submission are provided through the Major Project Website and that a review of the scope to streamline what consideration the Department may wish to have included in the IEA would occur;
3. Received 24<sup>th</sup> June 2021 from the Office of Environment & Heritage advising that *"the main concern on review of the EIS and Aboriginal Cultural Heritage Assessment Report was the number of restricted AHIMS sites identified by the AHIMS search and the lack of further information indicating if these sites are located within the EIS project area or nearby and if there would be any impacts direct or indirect to these sites. There was also concern on the narrow scope of the consultation undertaken for the project. We recommended further consultation may be necessary to ensure that Aboriginal cultural heritage values of restricted sites would not be impacted by the project."*

It is understood the above comment is in relation to the EIS associated with the proposed Hanson Tweed Sand Plant Expansion (SSD 10398) currently under review and therefore is not considered within the scope of the IEA. Notwithstanding this, TSP advised that further work has been undertaken by their Cultural Heritage consultants and will be addressed in the next phase of the State Significant Development assessment process.

### **3.2 ACTIONS REQUIRED FROM PREVIOUS AUDIT**

This is the first IEA since the date of the MOD 1 of Development Consent (DA 152-6-2005) issued by the NSW Department of Planning & Environment dated 20<sup>th</sup> August 2018.

The previous IEA was undertaken in July 2018 just prior to the MOD 1 being issued and it is noted that a number of the recommendations related to outdated conditions and items that would be addressed as part of the revised MOD 1 conditions.

### **3.3 SUMMARY OF COMPLIANCE ASSESSMENT**

The Audit Checklist incorporating each condition, assessing compliance status, documenting evidence, providing risk level and recommendations for any non-compliance is provided in full in **Section 4.0 Environmental Audit Findings**.

The Tweed Sand Plant is an existing extraction operation (originally approved in 1983) that has been operated by Hanson since 2005. The facility has three (3) staff and is supported by a comprehensive corporate Integrated Risk Management System which incorporates Quality, Safety & Environmental Management (including ISO14000 certification). This IRMS includes an Environment Policy, Energy Management Policy and Water Management Policy which are supported by a comprehensive system based on risk assessment, operational procedures, training and review processes.

The facility achieved compliance the majority of Development Consent and Environmental Protection Licence conditions at the time of the IEA, with the identified non-compliances are either Administrative Non-compliances (2 in total) or Low Risk Non-compliances (8 in total).

The Development Consent Administrative non-compliances & Low Risk Non-compliances and associated recommendations are outlined below:

Development Consent Condition	Comment	Compliance Status	Observation or Recommendation
<p><b>TERMS OF CONSENT</b> (Schedule 2)</p> <p>2. The Applicant in acting on this consent, must carry out the development:</p> <ul style="list-style-type: none"> <li>a) In compliance with the condition of this consent:</li> <li>b) In accordance with all written directions of the Secretary: and</li> <li>c) In accordance with the development layout.</li> </ul>	<p>A comparatively small number of non-compliances were identified as noted throughout this audit report and addressed elsewhere.</p>	<p>Non-Compliant</p>	<p>Refer to recommendations as noted against individual conditions within the audit report.</p>
<p><b>Quarry Product Transport</b> (Schedule 2)</p> <p>9. The Applicant must not dispatch more than 10 laden trucks from the site in any hour until the upgrades of Altona Road and the Tweed Coast Road/ Crescent Street intersection, as required under conditions 21 and 23 of Schedule 3, have been completed.</p> <p>Following these road upgrades, the Applicant must not dispatch more than 18 laden trucks from the site in any hour.</p>	<p>Hanson provided documentation dated 08/05/2020 sent to DPIE notifying that the Applicant had completed the road upgrades as per conditions 21 and 23 of Schedule 3. A Tweed Shire Council Works as Executed Compliance Certificate No. 20/005 dated 7 May 2020 was included in Attachment 1.</p> <p>It is noted that there are other conditions within the Development Consent that require compliance prior to an increase to 18 laden trucks leaving the site in any hour. Additional Hanson documentation dated 02/07/2021 sent to DPIE was observed and advised that the Noise Management Plan required by Schedule 3 Condition 3 and Noise Compliance Assessment Report has been completed and it is intended to commence dispatching up to 18 laden trucks in any hour. At the time of the audit the Department had not responded to this correspondence and a follow up email was sent on 26/08/2021 requesting an update on this and other outstanding matters.</p> <p>TSP provided a report of loads dispatched from the site between 01/07/2020 to 30/06/2021. No</p>	<p>Non-Compliant</p>	<p>Continued implementation and monitoring of weighbridge systems to control dispatch of laden trucks from the site.</p>

Development Consent Condition	Comment	Compliance Status	Observation or Recommendation								
	<p>exceedances were identified in the 20/21 data. The weighbridge has been updated to not allow more than 18 laden trucks to be dispatched in any one-hour period.</p> <p>The 19/20 AEMR indicates exceedances occurred on 2 Dec 2019 and 17 Dec 2019. This was reported and corrective action implemented at the time. No further action was requested by the Department.</p>										
<p><b>Hours of operation</b> (Schedule 2)</p> <p>10. The Applicant must comply with the operating hours set out in Table 1</p> <table border="1" data-bbox="174 742 790 938"> <caption>Table 1: Operation Hours</caption> <thead> <tr> <th>Activity</th> <th>Permissible Hours</th> </tr> </thead> <tbody> <tr> <td>Quarrying operations (excluding loading and dispatch of trucks)</td> <td> <ul style="list-style-type: none"> <li>7 am to 5 pm Monday to Friday</li> <li>7 am to 4 pm Saturday</li> <li>At no time on Sundays or public holidays</li> </ul> </td> </tr> <tr> <td>Loading and dispatch of trucks</td> <td> <ul style="list-style-type: none"> <li>7 am to 5 pm Monday to Friday</li> <li>7 am to 12 pm Saturday</li> <li>At no time on Sundays or public holidays</li> </ul> </td> </tr> <tr> <td>Maintenance</td> <td> <ul style="list-style-type: none"> <li>May be conducted at any time, provided that these activities are not audible at any privately-owned residence</li> </ul> </td> </tr> </tbody> </table>	Activity	Permissible Hours	Quarrying operations (excluding loading and dispatch of trucks)	<ul style="list-style-type: none"> <li>7 am to 5 pm Monday to Friday</li> <li>7 am to 4 pm Saturday</li> <li>At no time on Sundays or public holidays</li> </ul>	Loading and dispatch of trucks	<ul style="list-style-type: none"> <li>7 am to 5 pm Monday to Friday</li> <li>7 am to 12 pm Saturday</li> <li>At no time on Sundays or public holidays</li> </ul>	Maintenance	<ul style="list-style-type: none"> <li>May be conducted at any time, provided that these activities are not audible at any privately-owned residence</li> </ul>	<p>The 19/20 AEMR indicates a load was dispatched at 5:03:29pm on 2 Dec 2019. This was reported and corrective action implemented at the time. No further action was requested by the Department.</p> <p>Hanson have a Drivers Code of Conduct in place which drivers are trained in and then required to carry a signed copy confirming understanding of requirements. This covers site specific requirements including operating hours, dispatch limitations, routes, behavioural expectations.</p>	Non-Compliant	Continued implementation and monitoring of weighbridge systems to control dispatch of laden trucks from the site.
Activity	Permissible Hours										
Quarrying operations (excluding loading and dispatch of trucks)	<ul style="list-style-type: none"> <li>7 am to 5 pm Monday to Friday</li> <li>7 am to 4 pm Saturday</li> <li>At no time on Sundays or public holidays</li> </ul>										
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Maintenance	<ul style="list-style-type: none"> <li>May be conducted at any time, provided that these activities are not audible at any privately-owned residence</li> </ul>										
<p><b>PRODUCTION DATA</b> (Schedule 2)</p> <p>18. The Applicant must:</p> <ol style="list-style-type: none"> <li>from the commencement of quarrying operations provide calendar year annual quarry production data to DRG using the standard form for that purpose; and</li> <li>include a copy of this data in the Annual Review</li> </ol>	<p>TSP provided a report of loads dispatched from the site between 01/07/2020 to 30/06/2021 which indicates 214,932.29 tonnes of material was transported off-site during this period.</p> <p>The 19/20 AEMR indicates 243,577 tonnes of material was transported off-site during this period. The 18/19 AEMR indicates 204,023.64 tonnes of material was transported off-site during this period.</p> <p>The standard form was observed for the 18/19 and 19/20 period, however TSP advised that the Standard Form has since changed to an on-line portal. The reference to calendar year reporting in the condition is inconsistent with the Standard Form seeking data for financial year period.</p>	Administrative non-compliance	Suggest the condition be amended to reflect use of the period of reporting outlined on the standard form (e.g. financial year) and if relevant use of the on-line portal for lodgement.								

Development Consent Condition	Comment	Compliance Status	Observation or Recommendation
<p><b>LIMITS OF EXTRACTION</b> (Schedule 2)</p> <p>20. The Applicant must maintain a minimum buffer of 10 metres between extraction operations and the boundaries of the site. The buffer may be used for minor activities such as drainage works, access, bunds, and landscaping.</p>	<p>NearMaps aerial imagery of the site dated 05/08/2021 was observed and the minimum buffer does not appear to be achieved in all locations. There is possible confusion between site boundary location and 'road' boundary along the southern boundary - refer to Appendix 1 of the Development Consent 'Development Layout Plan'.</p>	<p>Non-Compliant</p>	<p>Suggest review and physical marking of site boundary locations to reflect the approved Appendix 1 Development Layout Plan.</p>
<p><b>Operating Conditions</b> (Schedule 3)</p> <p>2. The Applicant must:</p> <ul style="list-style-type: none"> <li>(a) implement best practice management to minimise the construction, operational and road transportation noise of the development;</li> <li>(b) minimise the noise impacts of the development during meteorological conditions when the noise criteria in this consent do not apply (see Appendix 2);</li> <li>(c) carry out attended noise monitoring (at least every 3 months or as otherwise agreed by the Secretary) to determine whether the development is complying with the relevant conditions of this consent (see Appendix 2); and</li> <li>(d) regularly assess noise monitoring data and modify and/or stop operations on site to ensure compliance with the relevant conditions of this consent, to the satisfaction of the Secretary.</li> </ul> <p><i>Note: Monitoring under this consent is not required at all residences and the use of representative monitoring locations can be used to demonstrate compliance with criteria, if agreed to by the Secretary.</i></p>	<p>The Noise Management Plan, May 2019 prepared by SLR was sited and correspondence observed indicating it was approved by the Secretary on 31 May 2019.</p> <p>Section 1.3 of the approved NMP outlines how the document addresses subsections (a) to (d). It is understood management measures are implemented as per the NMP and recent improvements include sound-proofing of hydraulic hoses and installation of double door seals on dredge equipment to minimise noise.</p> <p>TSP advised that noise monitoring is generally undertaken every 3 months, however did not occur in December 2020. It is understood Noise monitoring was undertaken by ATP Consulting in August 2020, September 2020 and February 2021, with the most recent monitoring in June 2021.</p> <p>Therefore, non-compliance with subsection (c) is noted and it is understood that ATP are currently reviewing the noise compliance criteria and Hanson is currently in discussion with the Department regarding this matter.</p>	<p>Non-Compliant</p>	<p>Implement monitoring requirements as outlined in current approved Noise Management Plan until such time as an amendment to this condition is approved.</p>
<p><b>Flood Management</b> (Schedule 3)</p> <p>13. The Applicant must ensure that the flood storage capacity of the site is not less than the pre-existing flood storage capacity throughout all stages of the development. Monthly details of the available flood storage capacity must be</p>	<p>The 19/20 AEMR outlines in Section 3.11 the process of determining flood capacity. Section 4.11 provides the outcome of this assessment and indicates during this period there was a net gain in flood storage capacity of 12,499m<sup>3</sup> across the site.</p>	<p>Non-Compliant</p>	<p>Suggest monthly details of available flood storage capacity are reported in the Annual Reviews.</p>

Development Consent Condition	Comment	Compliance Status	Observation or Recommendation
<p>reported in the Annual Review.</p>	<p>The 18/19 AEMR outlines in Section 3.11 the process of determining flood capacity. Section 4.11 provides the outcome of this assessment and indicates during this period there was a net gain in flood storage capacity of 3,244m<sup>3</sup> across the site.</p> <p>Review of AEMR flood storage capacity data (e.g. Appendix 16) indicates the data is represented annually, not monthly.</p>		
<p><b>REPORTING</b> (Schedule 5)</p> <p><b>Incident Notification, Reporting and Response</b></p> <p>Within 7 days of the date of the incident, the Applicant must provide the Secretary and any relevant agencies with a detailed report on the incident, and such further reports as may be requested. This report must include the time and date of the incident, details of the incident, measures implemented to prevent re-occurrence and must identify any non-compliance with this consent</p>	<p>TSP advised that it is understood that exceedances are not classified as an event causing material harm and therefore do not need to be reported to the EPA.</p> <p>It is acknowledged that the Consent definition of an 'Incident' is different in the EPL. However, in terms of the Consent it is considered an exceedance of water quality criteria which is a non-compliance with a Consent condition would be an incident, therefore the EPA would be a relevant agency and should be notified.</p> <p>It is noted that Department correspondence dated 11/10/2019 in relation to the 2018/2019 AEMR highlighted that several water quality criteria exceedances during monthly sampling was noted however these were not reported to the EPA.</p>	<p>Administrative non-compliance</p>	<p>It is suggested that incident reporting conditions be reviewed against the requirements of this consent and the EPL and if necessary modified to ensure consistency of application and clear reporting requirements to relevant agencies.</p> <p>Suggest a site-specific incident reporting procedure be updated/implemented to ensure clarity on how all incident reporting conditions are addressed.</p>



The Environmental Protection Licence Low Risk Non-compliances and associated recommendations are outlined below:

Environmental Protection Licence Condition	Comment	Compliance Status	Observation or Recommendation
<p>L4.2 Noise from the premises is to be measured at the most affected noise sensitive receiver who has not given written permission for an exceedance of condition L4.1 to determine compliance with this condition.</p>	<p>The ATP Noise Monitoring Report June 2021 and ATP Noise Assessment Report Annual Review 2020 indicate that noise measurements were carried out at 543 Cudgen Rd, Cudgen and 535 Cudgen Rd, Cudgen and did not achieve compliance with the criteria in Condition L4.1. It is noted that both of these premises have written agreements in place for exceedance of noise criteria, however the agreements do not reference the EPL 11453 conditions only MOD1 conditions.</p> <p>Therefore, no measurements have been undertaken at a premises not subject to a written agreement.</p>	<p>Non-Compliant</p>	<p>Suggest noise monitoring be undertaken at premises that are not subject to a written permission for an exceedance of condition L4.1.</p>
<p><b>L5 Hours of operation</b></p> <p>L5.1 Quarrying Operations must only be carried out between 0700 and 1700 hours Monday to Friday, and 0700 and 1600 hours Saturday, and at no time on Sundays and Public Holidays. Loading and dispatch of trucks must only be carried out between 0700 and 1700 hours Monday to Friday, and 0700 and 1200 hours Saturday, and at no time on Sundays and Public Holidays. Maintenance may be conducted at any time, provided these activities are not audible at any privately-owned residence.</p>	<p>TSP provided a report of loads dispatched from the site between 01/07/2020 to 30/06/2021. An exceedance was identified on 21/11/2020 where the weighbridge recorded a truck movement at 12:27:45pm (Saturday). TSP advised the truck was moving overburden on-site and went over the weighbridge but did not go offsite. The weighbridge has been updated to not allow tickets to be issued/trucks to be dispatched outside of permitted operating hours.</p> <p>The 19/20 AEMR indicates a load was dispatched at 5:03:29pm on 2 Dec 2019. This was reported and no further action was requested by the Department.</p> <p>Hanson have a Drivers Code of Conduct in place which drivers are trained in and then required to carry a signed copy confirming understanding of requirements. This covers site specific requirements including operating hours, dispatch limitations, routes, behavioural expectations.</p>	<p>Non-Compliant</p>	<p>Continued implementation and monitoring of weighbridge systems to control dispatch of laden trucks from the site.</p>

### **3.4 MANAGEMENT PLAN COMPLIANCE**

A number of Management Plans are required as a result of conditions within MOD 1 of Development Consent (DA 152-6-2005) and NSW EPA Licence No: 11453. This includes:

- Noise Management Plan;
- Rehabilitation and Landscape Management Plan;
- Air Quality Management Plan;
- Soil and Water Management Plan;
- Blue-green Algae Management Plan; and
- Transport Management Plan.

The Development was observed to be operating generally in accordance with the approved Management Plans, however low risk Non-compliances were identified in relation to the Noise Management Plan.

It is understood that noise measurement has not occurred at a premises that is not subject to a written agreement for an exceedance of noise criteria as required by EPL Condition L4.2. It is acknowledged that noise modelling has shown compliance at other receptors, however modelling is an indicative tool and it is recommended that noise measurements are taken at residences without an agreement in place in order to assess compliance with noise criteria.

In addition to this, it was identified that noise monitoring has not always occurred at the required 3 monthly frequency (Consent Condition Schedule 3 Condition 2). Noise monitoring did not occur in December 2020, however was undertaken by ATP Consulting in August 2020, September 2020 and February 2021, with the most recent monitoring in June 2021.

It is understood that that ATP Consulting (Hanson's noise consultants) are currently reviewing the noise compliance criteria and Hanson is currently in discussion with the Department regarding this matter. Hanson have indicated monitoring will be undertaken at 3 monthly frequencies and will review opportunities to integrate noise monitoring at the next closest noise sensitive receiver who has not given written permission for an exceedance of noise criteria in future monitoring.

### **3.5 COMMITMENTS AND KEY PROJECT FEATURES**

Key attributes of the Development referred to in environmental assessment documentation include:

- Good stewardship, implementation of best practice management and proven techniques as outlined in approved management plans;
- Minimisation of disturbance of land and a maximum extraction depth of 20m below natural surface level;
- Implementation of monitoring programs and environmental audits to assess the impact of control measures;
- Management of traffic impacts through limits on truck movements and vehicular access to/from the site;
- Communication and community engagement through the Community Consultative Committee; and
- On-going rehabilitation of land to an acceptance post-disturbance land use.

The Development was observed to have incorporated the above key attributes into the design and operation of the facility. As outlined in Section 3.4, management plans are being implemented generally in accordance with commitments within the approved documents. Hydrographic surveys are undertaken to monitor extraction depths and corporate reporting of stripped areas is required to ensure minimisation of disturbed areas.

Controls measures, in particular comprehensive dust control measures were observed to be implemented and the site appears to generally drain towards the extraction lake. TSP have advised that no overflow from the dredge pond has occurred in the last three (3) years. Complaint registers are available on the TSP website indicate no complaints were received between 2018 to 2020.

Hanson have implemented a range of monitoring programs as outlined within approved management plans, notwithstanding non-compliances identified in relation to the Noise Management Plan which is currently under review. The TSP EMS clearly identifies environmental roles and responsibilities and an internal audit program is implemented including biannual environmental auditing by environmental consulting firm Gilbert + Sutherland.

A range of complimentary systems are in place to manage potential traffic impacts associated with the site. SAP Weighbridge Software is used to record product weight and the date/time that sand is transported from the site and will not allow tickets to be dispatched outside of Consent requirements. Company trucks contain GPS tracking and display delivery routes. Hanson also have a Drivers Code of Conduct in place which drivers are trained in and then required to carry a signed copy confirming understanding of requirements. This covers site specific requirements including operating hours, dispatch limitations, routes, behavioural expectations.

Hanson have established the Community Consultative Committee (CCC) which has met regularly since 2006 to keep the community informed about environmental performance at the site. The feedback received from the Chair of the CCC during the IEA process indicates satisfaction with the current communication and consultation processes.

Rehabilitation of disturbed land is an on-going process in accordance with the current Rehabilitation and Landscape Management Plan dated 13 March 2019. The 2019 RLMP has now been amended by JWA to re-order the proposed rehabilitation stages to better align with current and proposed future sand extraction areas and extraction rates. The updated RLMP dated 12 March 2021 and is currently with the Department for review and approval. The IEA identified that the minimum buffer does not appear to be achieved in all locations, resulting in a non-compliance identified in relation to Schedule 2 Condition 20. There is possible confusion between the site boundary location and the 'road' boundary along the southern boundary - refer to Appendix 1 of the Development Consent 'Development Layout Plan'. It is suggested review of boundary lines and physical marking of site boundary locations be implemented to reflect the approved Appendix 1 Development Layout Plan.

### **3.6 INCIDENTS AND COMPLAINTS**

There have been no complaints received during the period of the IEA.

Annual Exceedance Registers are published on the Hanson TSP website. During the period of the EIA, the following notifications have occurred:

- 2019 Exceedance Register – Five (5) incidents reported with actions implemented as required. The Department reviewed information provided and no further action was taken for all incidents.
- 2020 Exceedance Register – Three (3) incidents reported with actions implemented as required. The Department reviewed information provided and no further action was taken for all incidents.
- 2021 Exceedance Register – One (1) incident reported in relation to biannual water quality monitoring exceedances. TSP have indicated exceedances are marginal and reflect historical trends and no remedial action is required at this stage.

### **3.7 ENVIRONMENTAL PERFORMANCE**

The IEA found broad compliance being achieved with Development Consent and EPA Licence conditions. Hanson have a corporate Integrated Risk Management System in place which incorporates Quality, Safety & Environmental Management (including ISO14000 certification). This IRMS includes an Environment Policy, Energy Management Policy and Water Management Policy which are supported by a comprehensive system based on risk assessment, operational procedures, training and review processes.

An approved Environmental Management Strategy (EMS) is also currently in place and brings together the management and monitoring plans to be implemented to achieve compliance and Hanson's overarching environmental goals at the Tweed Sand Plant. It is anticipated refinement of processes and mitigation measures will occur as operational levels increase.

In relation to monitoring data, there has been no quantitative noise monitoring at a premises that is not subject to a written agreement for an exceedance of noise criteria as required by EPL Condition L4.2. Hanson have indicated noise monitoring will be undertaken at 3 monthly frequencies and review opportunities to integrate noise monitoring at the next closest noise sensitive receiver who has not given written permission for an exceedance of noise criteria.

Similarly, air quality monitoring for particulate matter (PM10, PM2.5 and TSP criteria) at sensitive has not occurred to date. However dust deposition monitoring is undertaken and the approved Air Quality Management Plan indicates that if exceedances occur or a valid complaint is received, short-term monitoring will be used to investigate the matter. Suggest consideration be given to amending this condition to reflect PM10, PM2.5 and TSP criteria apply on a complaint basis and/or the accepted monitoring arrangement in the approved AQMP.

### **3.8 CONTINUAL IMPROVEMENT OPPORTUNITIES**

As noted previously, the Audit Checklist incorporating each condition, assessing compliance status, documenting evidence, providing risk level and recommendations for any non-compliance is provided in full in **Section 4.0 Environmental Audit Findings**.

Suggestions for continual improvement are captured within the recommendation outlined in Section 3.3 Summary of Compliance. In general, there is opportunity to review those conditions that have been identified as non-compliant or not verified and consider making a modification application seeking amendment of conditions to better define the intent of the condition or update terminology to reflect current processes or agreed practices. There may also be opportunity for modification to existing conditions as part of the State Significant Development assessment process currently underway for the proposed Tweed Sand Plant Expansion (SSD 10398).

## 4.0 ENVIRONMENTAL AUDIT FINDINGS

### DEVELOPMENT CONSENT – NOTICE OF MODIFICATION 1 (MOD 1)

Condition	Comment	Compliance Status	Observation or Recommendation
<b>SCHEDULE 2 - ADMINISTRATIVE CONDITIONS</b>			
<p><b>OBLIGATION TO MINIMISE HARM TO THE ENVIRONMENT</b></p> <p>1. In addition to meeting the specific performance measures and criteria established under this consent, the Applicant must implement all reasonable and feasible measures to prevent, and if prevention is not reasonable and feasible, minimise any material harm to the environment that may result from the construction and operation of the development, and any rehabilitation required under this consent.</p>	<p>Hanson Heidelberg Cement Group (Hanson) have a corporate Integrated Risk Management System in place which incorporates Quality, Safety &amp; Environmental Management (including ISO14000 certification). This IRMS includes an Environment Policy, Energy Management Policy and Water Management Policy which are supported by a comprehensive system based on risk assessment, operational procedures, training and review processes.</p> <p>There is also a corporate One Team System for Human Resource management which records employee details including induction and training records. This system including Nick Dennis's profile was observed during the audit.</p> <p>There are also a number of Tweed Sand Plant specific environmental management plans &amp; rehabilitation plan which were observed during the audit. Internal audit processes are established and undertaken regularly by consulting firm Gilbert &amp; Sullivan.</p> <p>Except as otherwise noted within the audit report, the Applicant is considered to be taking practicable measures to prevent and/or minimise harm to the environment from the Tweed Sand Plant operation.</p>	<b>Compliant</b>	<p>Refer to recommendations as noted against individual conditions within the audit report.</p>

Condition	Comment	Compliance Status	Observation or Recommendation
<p><b>TERMS OF CONSENT</b></p> <p>2. The Applicant in acting on this consent, must carry out the development:</p> <p style="padding-left: 40px;">d) In compliance with the condition of this consent:</p> <p style="padding-left: 40px;">e) In accordance with all written directions of the Secretary: and</p> <p style="padding-left: 40px;">f) In accordance with the development layout.</p>	<p>A comparatively small number of non-compliances were identified as noted throughout this audit report and addressed elsewhere.</p>	<p><b>Non-Compliant</b></p>	<p>Refer to recommendations as noted against individual conditions within the audit report.</p>
<p>3. The Applicant, in acting on this consent, must carry out the development:</p> <p style="padding-left: 40px;">a) generally in accordance with the EIS; and</p> <p style="padding-left: 40px;">b) generally in accordance with EA (Mod 1).</p>	<p>The Applicant is considered to be operating generally in accordance with items a) and b).</p> <p>A comparatively small number of non-compliances were identified as noted throughout this audit report and addressed elsewhere. It is also noted that there is DPIE correspondence in relation to Rehabilitation Requirements are currently being addressed but not resolved as yet.</p>	<p><b>Compliant</b></p>	<p>Refer to recommendations as noted against individual conditions within the audit report.</p>
<p>4. The conditions of this consent and directions of the Secretary prevail to the extent of any inconsistency, ambiguity or conflict between them and a document referenced in condition 3 of this Schedule. In the event of an inconsistency, ambiguity or conflict between any of the documents referenced in condition 3 of this Schedule, the most recent document prevails.</p>	<p>Note: condition for information purposes.</p>	<p><b>Note</b></p>	
<p>5. Consistent with the requirements of this consent, the Secretary may make written directions to the Applicant in relation to:</p> <p style="padding-left: 40px;">a) the content of any strategy, study, system, plan, program, review, audit, notification, report or correspondence submitted under or otherwise made in relation to this consent, including those that are required to be, and have been, approved by the</p>	<p>TSP advised that no requests of this nature have been received from the Secretary during the audit period.</p>	<p><b>Compliant</b></p>	

Condition	Comment	Compliance Status	Observation or Recommendation
<p>Secretary; and                      b) the implementation of any actions or measures contained in any such document referred to in (a) above.</p> <p><i>Note: For the purposes of this condition, there will be an inconsistency between documents if it is not possible to comply with both documents, or in the case of a condition of consent or direction of the Secretary, and a document, if it is not possible to comply with both the condition or direction, and the document.</i></p>			
<p><b>LIMITS OF CONSENT</b></p> <p><b>Quarrying Operations</b></p> <p>6. The Applicant may carry out quarrying operations on the site until 1 July 2036.</p> <p><i>Note: Under this consent, the Applicant is required to rehabilitate the site and carry out additional requirements and undertakings to the satisfaction of the Secretary. Consequently, this consent will continue to apply in all respects other than the right to conduct quarrying operations until the rehabilitation of the site and those requirements and undertakings have been carried out to the standard required by the applicable conditions.</i></p>	<p>The timeframe nominated for approved quarrying operations has not elapsed as yet.</p>	<p>Compliant</p>	
<p>7. The Applicant must not undertake extraction of extractive materials to a depth greater than 20 m below the natural ground surface.</p>	<p>TSP advised hydrographic surveys are undertaken annually in September. The most recent hydrographic survey plan dated 04/09/2020 was observed and indicates that the depth of extraction has not gone beyond 20m below natural ground level. TSP advised that the depth of extraction is undulated and typically varies between 17m to 18m depth.</p>	<p>Compliant</p>	
<p>8. The Applicant must not transport more than 500,000 tonnes of quarry products from the site in any financial year.</p>	<p>SAP Weighbridge Software is used to record product weight and the date/time that sand is transported from the site.</p> <p>TSP provided a report of loads dispatched from the site between 01/07/2020 to 30/06/2021 which</p>	<p>Compliant</p>	



Condition	Comment	Compliance Status	Observation or Recommendation
	<p>indicates 214,932.29 tonnes of material was transported off-site during this period.</p> <p>The 19/20 AEMR indicates 243,577 tonnes of material was transported off-site during this period.</p> <p>The 18/19 AEMR indicates 204,023.64 tonnes of material was transported off-site during this period.</p>		
<p><b>Quarry Product Transport</b></p> <p>9. The Applicant must not dispatch more than 10 laden trucks from the site in any hour until the upgrades of Altona Road and the Tweed Coast Road/ Crescent Street intersection, as required under conditions 21 and 23 of Schedule 3, have been completed.</p> <p>Following these road upgrades, the Applicant must not dispatch more than 18 laden trucks from the site in any hour.</p>	<p>Hanson provided documentation dated 08/05/2020 sent to DPIE notifying that the Applicant had completed the road upgrades as per conditions 21 and 23 of Schedule 3. A Tweed Shire Council Works as Executed Compliance Certificate No. 20/005 dated 7 May 2020 was included in Attachment 1.</p> <p>It is noted that there are other conditions within the Development Consent that require compliance prior to an increase to 18 laden trucks leaving the site in any hour. Additional Hanson documentation dated 02/07/2021 sent to DPIE was observed and advised that the Noise Management Plan required by Schedule 3 Condition 3 and Noise Compliance Assessment Report has been completed and it is intended to commence dispatching up to 18 laden trucks in any hour. At the time of the audit the Department had not responded to this correspondence and a follow up email was sent on 26/08/2021 requesting an update on this and other outstanding matters.</p> <p>TSP provided a report of loads dispatched from the site between 01/07/2020 to 30/06/2021. No exceedances were identified in the 20/21 data. The weighbridge has been updated to not allow more than 18 laden trucks to be dispatched in any one-hour period.</p>	<b>Non-Compliant</b>	<p>Continued implementation and monitoring of weighbridge systems to control dispatch of laden trucks from the site.</p>

Condition	Comment	Compliance Status	Observation or Recommendation								
	<p>The 19/20 AEMR indicates exceedances occurred on 2 Dec 2019 and 17 Dec 2019. This was reported and corrective action implemented at the time. No further action was requested by the Department.</p>										
<p><b>Hours of operation</b></p> <p>10. The Applicant must comply with the operating hours set out in Table 1</p> <table border="1" data-bbox="215 592 887 815"> <caption>Table 1: Operating Hours</caption> <thead> <tr> <th>Activity</th> <th>Permissible Hours</th> </tr> </thead> <tbody> <tr> <td>Quarrying operations (excluding loading and dispatch of trucks)</td> <td> <ul style="list-style-type: none"> <li>7 am to 5 pm Monday to Friday</li> <li>7 am to 4 pm Saturday</li> <li>At no time on Sundays or public holidays</li> </ul> </td> </tr> <tr> <td>Loading and dispatch of trucks</td> <td> <ul style="list-style-type: none"> <li>7 am to 5 pm Monday to Friday</li> <li>7 am to 12 pm Saturday</li> <li>At no time on Sundays or public holidays</li> </ul> </td> </tr> <tr> <td>Maintenance</td> <td> <ul style="list-style-type: none"> <li>May be conducted at any time, provided that these activities are not audible at any privately-owned residence</li> </ul> </td> </tr> </tbody> </table>	Activity	Permissible Hours	Quarrying operations (excluding loading and dispatch of trucks)	<ul style="list-style-type: none"> <li>7 am to 5 pm Monday to Friday</li> <li>7 am to 4 pm Saturday</li> <li>At no time on Sundays or public holidays</li> </ul>	Loading and dispatch of trucks	<ul style="list-style-type: none"> <li>7 am to 5 pm Monday to Friday</li> <li>7 am to 12 pm Saturday</li> <li>At no time on Sundays or public holidays</li> </ul>	Maintenance	<ul style="list-style-type: none"> <li>May be conducted at any time, provided that these activities are not audible at any privately-owned residence</li> </ul>	<p>The 19/20 AEMR indicates a load was dispatched at 5:03:29pm on 2 Dec 2019. This was reported and corrective action implemented at the time. No further action was requested by the Department.</p> <p>Hanson have a Drivers Code of Conduct in place which drivers are trained in and then required to carry a signed copy confirming understanding of requirements. This covers site specific requirements including operating hours, dispatch limitations, routes, behavioural expectations.</p>	Non-Compliant	Continued implementation and monitoring of weighbridge systems to control dispatch of laden trucks from the site.
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Maintenance	<ul style="list-style-type: none"> <li>May be conducted at any time, provided that these activities are not audible at any privately-owned residence</li> </ul>										
<p>11. The following activities may be carried out outside the hours specified in Table 1 above:</p> <ol style="list-style-type: none"> <li>a) delivery or dispatch of materials as requested by Police or other public authorities; and</li> <li>b) emergency work to avoid the loss of lives, property or to prevent environmental harm.</li> </ol> <p>In such circumstances, the Applicant must notify the Secretary and affected residents prior to undertaking the activities, or as soon as is practical thereafter.</p>	<p>TSP advised that no activities of this nature have occurred during the audit period.</p>	Compliant									

Condition	Comment	Compliance Status	Observation or Recommendation
<p><b>STRUCTURAL ADEQUACY</b></p> <p>12. The Applicant must ensure that all new buildings and structures, and any alterations or additions to existing buildings and structures, are constructed in accordance with the relevant requirements of the BCA.</p> <p><i>Notes:</i></p> <ul style="list-style-type: none"> <li>• <i>Under Part 4A of the EP&amp;A Act, the Applicant is required to obtain construction and occupation certificates for the proposed building works; and</i></li> <li>• <i>Part 8 of the EP&amp;A Regulation sets out the requirements for the certification of the development or project.</i></li> </ul>	<p>TSP advised that no new buildings have been constructed during the audit period.</p>	Compliant	
<p><b>DEMOLITION</b></p> <p>13. The Applicant must ensure that all demolition work is carried out in accordance with Australian Standard AS 2601-2001: The Demolition of Structures, or its latest version.</p>	<p>TSP advised that no demolition has been undertaken during the audit period.</p>	Compliant	
<p><b>PROTECTION OF PUBLIC INFRASTRUCTURE</b></p> <p>14. Unless the Applicant and the applicable authority agree otherwise the Applicant must:</p> <ol style="list-style-type: none"> <li>a) repair, or pay the full costs associated with repairing, any public infrastructure that is damaged by the development; and</li> <li>b) relocate, or pay the full costs associated with relocating, any public infrastructure that needs to be relocated as a result of the development.</li> </ol> <p><i>Note: This condition does not apply to damage to roads caused as a result of general road usage or as</i></p>	<p>TSP advised that no damage to public infrastructure has occurred during the audit period.</p>	Compliant	

Condition	Comment	Compliance Status	Observation or Recommendation
<i>otherwise addressed by contributions required by condition 16 of Schedule 2.</i>			
<p><b>OPERATION OF PLANT AND EQUIPMENT</b></p> <p>15. The Applicant must ensure that all the plant and equipment used at the site, or to monitor the performance of the development is:</p> <ul style="list-style-type: none"> <li>a) maintained in a proper and efficient condition; and</li> <li>b) operated in a proper and efficient manner.</li> </ul>	<p>TSP advised all plant and equipment is listed on an Equipment Asset Register. Fixed assets are audited every 3 years. Automatic prescheduling of maintenance occurs via the SAP Planned Maintenance Program. Daily pre-start checks are undertaken on plant and equipment and records dated 07/06/2021 and 14/06/2021 were observed.</p> <p>Competency statements observed for Hanson staff including Justin Munro, Charles Payne and Lloyd Wright. Hanson's HR One Team System maintains staff training records and includes e-learning modules on environmental topics including an Environmental Refresher and Use of Spill Kits etc.</p> <p>CAMS System in place to record contractor inductions, licences and training records.</p>	Compliant	
<p><b>CONTRIBUTIONS</b></p> <p>16. The Applicant must pay to Council a financial contribution toward the upgrade of local roads (other than Altona Road and the Tweed Coast Road/ Crescent Street intersection). The contribution must be:</p> <ul style="list-style-type: none"> <li>a) determined in accordance with the Tweed Road Contribution Plan September 2016 (as indexed);</li> <li>b) paid prior to the dispatch of more than 10 laden trucks from the site in any hour; and</li> <li>c) reported in the Annual Review.</li> </ul> <p><i>Note: The upgrade and maintenance of Altona Road is subject to conditions 21 and 22 of Schedule 3. The</i></p>	<p>A financial contribution payment of \$51,709 was paid to Council on 18 March 2020, with acknowledgement received from the Department on 12 June 2020.</p>	Compliant	

Condition	Comment	Compliance Status	Observation or Recommendation
<p><i>upgrade of the Tweed Coast Road / Crescent Street intersection is subject to condition 23 of Schedule 3.</i></p>			
<p><b>COMPLIANCE</b></p> <p>17. The Applicant must ensure that all of its employees, contractors (and their sub-contractors) are made aware of, and are instructed to comply with, the conditions of this consent relevant to activities they carry out in respect of the development.</p>	<p>TSP advised that Hanson's HR One Team System maintains staff training records and includes e-learning modules on environmental topics including an Environmental Refresher and Use of Spill Kits etc. Site induction processes are in place.</p> <p>CAMS System in place to record contractor inductions, licences and training records. QR code used for contractors to register on-site.</p> <p>Competency statements observed for Hanson staff including Justin Munro, Charles Payne and Lloyd Wright.</p>	Compliant	
<p><b>PRODUCTION DATA</b></p> <p>18. The Applicant must:</p> <ul style="list-style-type: none"> <li>c) from the commencement of quarrying operations provide calendar year annual quarry production data to DRG using the standard form for that purpose; and</li> <li>d) include a copy of this data in the Annual Review</li> </ul>	<p>TSP provided a report of loads dispatched from the site between 01/07/2020 to 30/06/2021 which indicates 214,932.29 tonnes of material was transported off-site during this period.</p> <p>The 19/20 AEMR indicates 243,577 tonnes of material was transported off-site during this period. The 18/19 AEMR indicates 204,023.64 tonnes of material was transported off-site during this period.</p> <p>The standard form was observed for the 18/19 and 19/20 period, however TSP advised that the Standard Form has since changed to an on-line portal. The reference to calendar year reporting in the condition is inconsistent with the Standard Form seeking data for financial year period.</p>	Administrative non-compliance	<p>Suggest the condition be amended to reflect use of the period of reporting outlined on the standard form (e.g. financial year) and if relevant use of the on-line portal for lodgement.</p>

Condition	Comment	Compliance Status	Observation or Recommendation
<p><b>LIMITS OF EXTRACTION</b></p> <p>19. The Applicant must ensure that the surveyed boundaries of the approved limits of extraction are clearly marked at all times in a permanent manner that allows operating staff and inspecting officers to clearly identify those limits. <i>Note: The limit of extraction includes the area described in the documents listed in condition 3 of Schedule 2, and shown conceptually on the development layout plan in Appendix 1.</i></p>	<p>Survey markers identifying boundaries were observed on-site (refer to photographic plates).</p>	<p>Compliant</p>	
<p>20. The Applicant must maintain a minimum buffer of 10 metres between extraction operations and the boundaries of the site. The buffer may be used for minor activities such as drainage works, access, bunds, and landscaping.</p>	<p>NearMaps aerial imagery of the site dated 05/08/2021 was observed and the minimum buffer does not appear to be achieved in all locations. There is possible confusion between site boundary location and 'road' boundary along the southern boundary - refer to Appendix 1 of the Development Consent 'Development Layout Plan'.</p>	<p>Non-Compliant</p>	<p>Suggest review and physical marking of site boundary locations to reflect the approved Appendix 1 Development Layout Plan.</p>
<p>21. The Applicant must vary the buffer distance to the site boundary to achieve a stable, natural-looking final lake bank design with curved boundaries, to the satisfaction of the Secretary.</p>	<p>TSP advised the current Rehabilitation and Landscape Management Plan dated 13 March 2019, prepared by JWA Ecological Consultants was approved by the Department on 11 April 2019. Approval correspondence from the Secretary was observed.</p> <p>The 2019 RLMP has now been amended by JWA to re-order the proposed rehabilitation stages to better align with current and proposed future sand extraction areas and extraction rates. The updated RLMP is dated 12 March 2021 and is currently with the Department for review and approval.</p> <p>NearMaps aerial imagery of the site dated 05/08/2021 was observed and showed the lake bank was varied to provide a natural-looking profile.</p>	<p>Compliant</p>	

Condition	Comment	Compliance Status	Observation or Recommendation				
<p><b>NOTIFICATION</b></p> <p>22. Prior to dispatching more than 10 laden trucks from the site in any hour, the Applicant must provide written notification to the Department and Council that condition 16(b) of Schedule 2 and conditions 3, 21, 22, 23 and 25 of Schedule 3 have been completed to the satisfaction of the relevant authority.</p>	<p>Hanson correspondence dated 08 May 2020 was observed providing notification to the Department that relevant conditions have been completed to the satisfaction of the relevant authority. This letter addressed conditions 9, 16 &amp; 22 of Schedule 2 and conditions 3, 21, 22, 23 and 25 of Schedule 3.</p> <p>Additional Hanson documentation dated 02/07/2021 sent to DPIE was observed and advised that the Noise Compliance Assessment Report required in Appendix 2 of MOD1 has been completed and it is intended to commence dispatching up to 18 laden truck in any hour.</p>	Compliant					
<b>SCHEDULE 3 – SPECIFIC ENVIRONMENTAL CONDITIONS - NOISE</b>							
<p><b>OPERATIONAL NOISE CRITERIA</b></p> <p>1. The Applicant must ensure that the noise generated by the development does not exceed the criteria in Table 2 at any residence on privately-owned land</p> <p><small>Table 2: Noise criteria dB(A)</small></p> <table border="1" data-bbox="264 932 779 986"> <thead> <tr> <th data-bbox="264 932 515 959">Receiver</th> <th data-bbox="515 932 779 959">Day Leq: 15 minute</th> </tr> </thead> <tbody> <tr> <td data-bbox="264 959 515 986">Any residence on privately owned land</td> <td data-bbox="515 959 779 986">40</td> </tr> </tbody> </table> <p>Noise generated by the development is to be measured in accordance with the relevant requirements and exemptions (including certain meteorological conditions) of the NSW Industrial Noise Policy. Appendix 2 sets out the meteorological conditions under which these criteria apply and the requirements for evaluating compliance with these criteria.</p> <p>However, the noise criteria in Table 2 do not apply if the Applicant has an agreement with the relevant landowner to exceed the noise criteria, and the</p>	Receiver	Day Leq: 15 minute	Any residence on privately owned land	40	<p>Agreements observed to be in place with two (2) landholders being Stephen Elworthy (dated 4th November 2019) and Grant Ducat (dated 1st July 2021).</p> <p>TSP advised that noise monitoring is generally undertaken every 3 months, however did not occur in December 2020. It is understood Noise monitoring was undertaken by ATP Consulting in August 2020, September 2020 and February 2021, with the most recent monitoring in June 2021.</p> <p>It is understood exceedances of the noise criteria have occurred during each of the above monitoring programs, however Noise Agreements as noted above are in place therefore the noise criteria in Table 2 does not apply. TSP advised ATP are currently reviewing the noise compliance criteria and Hanson is currently in discussion with the Department regarding this matter.</p> <p>TSP advised no noise complaints have been received during the audit period. Complaint registers are available on the TSP website indicate no</p>	Not verified	<p>Suggest noise monitoring be undertaken at the next closest residence without a noise agreement in place.</p>
Receiver	Day Leq: 15 minute						
Any residence on privately owned land	40						

Condition	Comment	Compliance Status	Observation or Recommendation
<p>Applicant has advised the Department in writing of the terms of this agreement.</p>	<p>complaints were received between 2018 to 2020.</p> <p>However, no evidence has been provided that noise levels at 'any residence' on private owned land are in compliance with this condition, it is therefore not possible to verify compliance at the time of the audit.</p>		
<p><b>Operating Conditions</b></p> <p>2. The Applicant must:</p> <ul style="list-style-type: none"> <li>(e) implement best practice management to minimise the construction, operational and road transportation noise of the development;</li> <li>(f) minimise the noise impacts of the development during meteorological conditions when the noise criteria in this consent do not apply (see Appendix 2);</li> <li>(g) carry out attended noise monitoring (at least every 3 months or as otherwise agreed by the Secretary) to determine whether the development is complying with the relevant conditions of this consent (see Appendix 2); and</li> <li>(h) regularly assess noise monitoring data and modify and/or stop operations on site to ensure compliance with the relevant conditions of this consent, to the satisfaction of the Secretary.</li> </ul> <p><i>Note: Monitoring under this consent is not required at all residences and the use of representative monitoring locations can be used to demonstrate compliance with criteria, if agreed to by the Secretary.</i></p>	<p>The Noise Management Plan, May 2019 prepared by SLR was sited and correspondence observed indicating it was approved by the Secretary on 31 May 2019.</p> <p>Section 1.3 of the approved NMP outlines how the document addresses subsections (a) to (d). It is understood management measures are implemented as per the NMP and recent improvements include sound-proofing of hydraulic hoses and installation of double door seals on dredge equipment to minimise noise.</p> <p>TSP advised that noise monitoring is generally undertaken every 3 months, however did not occur in December 2020. It is understood Noise monitoring was undertaken by ATP Consulting in August 2020, September 2020 and February 2021, with the most recent monitoring in June 2021.</p> <p>Therefore, non-compliance with subsection (c) is noted and it is understood that ATP are currently reviewing the noise compliance criteria and Hanson is currently in discussion with the Department regarding this matter.</p>	<p><b>Non-compliant</b></p>	<p>Implement monitoring requirements as outlined in current approved Noise Management Plan until such time as an amendment to this condition is approved.</p>
<p><b>Noise Management Plan</b></p> <p>3. The Applicant must prepare a Noise Management</p>	<p>The Noise Management Plan, May 2019 prepared by SLR was sited and correspondence observed indicating it was approved by the Secretary on 31</p>	<p><b>Compliant</b></p>	



Condition	Comment	Compliance Status	Observation or Recommendation
<p>Plan for the development to the satisfaction of the Secretary. This plan must:</p> <ul style="list-style-type: none"> <li>(a) be prepared by a suitably qualified and experienced person/s whose appointment has been endorsed by the Secretary;</li> <li>(b) be prepared in consultation with the EPA;</li> <li>(c) describe the measures to be implemented to ensure:                             <ul style="list-style-type: none"> <li>• compliance with the noise criteria and operating conditions of this consent;</li> <li>• best practice management is being employed; and</li> <li>• the noise impacts of the development are minimised during meteorological conditions under which the noise criteria in this consent do not apply (see Appendix 2);</li> </ul> </li> <li>(d) describe the proposed noise management system; and</li> <li>(e) include a monitoring program to be implemented to measure noise from the development against the noise criteria in Table 2, and which evaluates and reports on the effectiveness of the noise management system on site.</li> </ul> <p>The Applicant must not dispatch more than 10 laden trucks from the site in any hour until the Noise Management Plan is approved by the Secretary.</p> <p>The Applicant must implement the Noise Management Plan as approved from time to time by the Secretary.</p>	<p>May 2019.</p> <p>Section 1.2 of the approved NMP outlines how the document addresses subsections (a) to (e).</p> <p>Hanson documentation dated 02/07/2021 sent to DPIE was observed and advised that conditions 9, 16 &amp; 22 of Schedule 2 and conditions 3, 21, 22, 23 and 25 of Schedule 3 had been addressed and the Noise Compliance Assessment Report required in Appendix 2 of MOD1 has been completed. Therefore, it is intended to commence dispatching up to 18 laden truck in any hour. At the time of the audit the Department had not responded to this correspondence and a follow up email was sent on 26/08/2021 requesting an update on this and other outstanding matters.</p>		
<p><b>AIR QUALITY</b></p>	<p>TSP advised that monthly Deposited Dust and personnel monitoring for Particulate Matter (PM) is undertaken. Dust deposition monitoring</p>	<p>Not verified</p>	<p>Suggest consideration be given to amending this condition to reflect PM10, PM2.5 and TSP criteria</p>

Condition	Comment	Compliance Status	Observation or Recommendation																			
<p><b>Air quality impact assessment criteria</b></p> <p>4. The Applicant must ensure that particulate matter emissions generated by the development do not cause exceedances of the criteria in Table 3 at any residence on privately-owned land.</p> <table border="1" data-bbox="248 512 853 735"> <thead> <tr> <th>Pollutant</th> <th>Averaging Period</th> <th>Criterion</th> </tr> </thead> <tbody> <tr> <td rowspan="2">Particulate matter &lt; 10 µm (PM10)</td> <td>Annual</td> <td>a. c 25 µg/m<sup>3</sup></td> </tr> <tr> <td>24-hour</td> <td>b 50 µg/m<sup>3</sup></td> </tr> <tr> <td rowspan="2">Particulate matter &lt; 2.5 (PM2.5)</td> <td>Annual</td> <td>a. c 8 µg/m<sup>3</sup></td> </tr> <tr> <td>24-hour</td> <td>b 25 µg/m<sup>3</sup></td> </tr> <tr> <td>Total suspended particulates (TSP)</td> <td>Annual</td> <td>a. c 90 µg/m<sup>3</sup></td> </tr> <tr> <td>d Deposited dust</td> <td>Annual</td> <td>b 2 g/m<sup>2</sup>/month   a 4 g/m<sup>2</sup>/month</td> </tr> </tbody> </table> <p><b>Notes:</b></p> <ul style="list-style-type: none"> <li>• Total impact (i.e. incremental increase in concentrations due to the development plus background concentrations due to all other sources).</li> <li>b Incremental impact (i.e. incremental increase in concentrations due to the development on its own).</li> <li>c Excludes extraordinary events such as bushfires, prescribed burning, dust storms, fire incidents or any other activity agreed by the Secretary.</li> <li>d 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.</li> </ul>	Pollutant	Averaging Period	Criterion	Particulate matter < 10 µm (PM10)	Annual	a. c 25 µg/m <sup>3</sup>	24-hour	b 50 µg/m <sup>3</sup>	Particulate matter < 2.5 (PM2.5)	Annual	a. c 8 µg/m <sup>3</sup>	24-hour	b 25 µg/m <sup>3</sup>	Total suspended particulates (TSP)	Annual	a. c 90 µg/m <sup>3</sup>	d Deposited dust	Annual	b 2 g/m <sup>2</sup> /month   a 4 g/m <sup>2</sup> /month	<p>stations were observed during the site visit.</p> <p>TSP advised personnel monitoring for PM demonstrates low levels, however this type of monitoring is related to Workplace Health &amp; Safety monitoring for employees rather than an accepted method of assessing compliance with PM criteria at off-site sensitive receptors.</p> <p>Annual Air Quality Monitoring Summaries (2018 to 2021) are available on the TSP website and were reviewed. Exceedances with the Total Impact Deposited Dust criteria was observed in Feb 2019, July 2019, Dec 2019 (no comments provided) and Jan 2020, May 2020, Aug 2020 &amp; Nov 2020 (comments provided indicating sample contamination &amp; off-site impacts).</p> <p>The approved AQMP outlines in Section 6.1 that “By monitoring dust deposition rates and demonstrating compliance with the relevant limits that are specified in Section 2 of this AQMP, emissions of PM10 and PM2.5 would also be expected to be effectively controlled and, therefore, compliance with the respective limits for PM10 and PM2.5 would likely be achieved. This is consistent with the approach adopted under the previous approval.</p> <p>However, if during the reporting of the air quality monitoring exceedances of the relevant criteria are recorded or upon receipt of a valid (air quality related) complaint, additional air quality monitoring may be established at Tweed Sand Plant. This would include the establishment of short-term air monitoring that can measure dust levels and meteorological conditions in real-time. The short-term monitoring will be used to investigate any non-compliance and identify any improvements to site operations.”</p> <p>TSP advised no dust complaints have been</p>		<p>apply on a complaint basis and/or the accepted monitoring arrangement in the approved AQMP.</p>
Pollutant	Averaging Period	Criterion																				
Particulate matter < 10 µm (PM10)	Annual	a. c 25 µg/m <sup>3</sup>																				
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d Deposited dust	Annual	b 2 g/m <sup>2</sup> /month   a 4 g/m <sup>2</sup> /month																				

Condition	Comment	Compliance Status	Observation or Recommendation
	<p>received during the audit period. Complaint registers are available on the TSP website indicate no complaints were received between 2018 to 2020.</p> <p>No additional PM monitoring at sensitive receptors has occurred to date to ensure compliance with the PM criteria in Table 3. It is therefore not possible to verify compliance at the time of the audit.</p>		
<p><b>Operating Conditions</b></p> <p>5. The Applicant must:</p> <p>(a) implement best management practice to minimise the dust emissions of the development , including routinely watering haul roads being used by heavy vehicles and equipment;</p> <p>(b) regularly assess meteorological and air quality monitoring data to guide the day-to-day planning of operations and implementation of air quality mitigation measures to ensure compliance with the relevant conditions of this consent;</p> <p>(c) minimise the air quality impacts of the development during adverse meteorological conditions and extraordinary events (see Note c to Table 3 above);</p> <p>(d) monitor and report on compliance with the relevant air quality conditions in this consent; and</p> <p>(e) minimise surface disturbance of the site, other than as permitted under this consent, to the satisfaction of the Secretary.</p>	<p>TSP advised of a range of dust control measures implemented on site including:</p> <ul style="list-style-type: none"> <li>• Speed limit on-site is 15km/hr (reduced from 30km/hr)</li> <li>• Water sprays on stockpiles and unsealed roads installed and observed. Can be remotely activated from loader</li> <li>• Stripped area is minimised, 0.5m topsoil removed, area stripped is reported corporately</li> <li>• Shaker grid installed</li> <li>• Vegetation screen in place</li> </ul> <p>TSP advised that a Davis WeatherLink System is the standard meteorological monitoring system used at Hanson sites.</p> <p>TSP staff have access to data in the office and available on their phones via an app. Weather monitoring station observed on-site. Visual monitoring for dust nuisance occurs on an ongoing basis and additional dust controls implemented as required.</p> <p>Refer to discussion in Condition 4 regarding Particulate Matter monitoring. Only Deposited Dust is currently monitored and no PM monitoring at sensitive receptors has occurred to date to ensure compliance with the PM criteria in Table 3.</p>	<p>Not verified</p>	<p>Suggest consideration be given to amending this condition to reflect PM10, PM2.5 and TSP criteria apply on a complaint basis and/or the accepted monitoring arrangement in the approved AQMP.</p>

Condition	Comment	Compliance Status	Observation or Recommendation
	<p>Therefore, non-compliance with subsection (d) is noted and it is suggested consideration be given to amending this condition to reflect PM10, PM2.5 and TSP criteria apply on a complaint basis and/or the accepted monitoring arrangement in the approved AQMP.</p>		
<p><b>Air Quality Management Plan</b></p> <p>6. The Applicant must prepare an Air Quality Management Plan for the development to the satisfaction of the Secretary. This plan must:</p> <ul style="list-style-type: none"> <li>(a) be prepared by suitably qualified and experienced person/s whose appointment has been endorsed by the Secretary;</li> <li>(b) be prepared in consultation with the EPA;</li> <li>(c) be submitted to the Secretary within three months of the determination of Modification 1;</li> <li>(d) describe the measures to be implemented to ensure:                             <ul style="list-style-type: none"> <li>• compliance with the air quality criteria and operating conditions of this consent;</li> <li>• best practice management is being employed; and</li> <li>• the air quality impacts of the development are minimised during adverse meteorological conditions and extraordinary events;</li> </ul> </li> <li>(e) describe the air quality management system in detail; and</li> <li>(f) include an air quality monitoring program that:                             <ul style="list-style-type: none"> <li>• is capable of evaluating the performance of the development against the air quality criteria;</li> <li>• adequately supports the air quality management system; and</li> <li>• includes a protocol for determining any exceedances of the air quality criteria.</li> </ul> </li> </ul>	<p>The Air Quality Management Plan, March 2019 prepared by Katestone was sited and correspondence observed indicating it was approved by the Secretary on 11 April 2019.</p> <p>The approved AQMP was reviewed and subsections (a) to (f) are addressed within the document as follows:</p> <ul style="list-style-type: none"> <li>(a) Attachment A contains DPE Approval</li> <li>(b) Attachment B contains EPA &amp; Council Correspondence</li> <li>(c) MOD1 determination was received on 20 August 2018 and the AQMP was submitted to the Secretary on 20 November 2018.</li> <li>(d) Section 2 outlines relevant legislation and consent criteria, Section 5 outlines Dust Sources and Controls, Section 6 outlines Air Quality and Meteorological Monitoring</li> <li>(e) Addressed by the approved AQMP</li> <li>(f) Section 6 outlines Air Quality and Meteorological Monitoring</li> </ul> <p>Implementation of the AQMP was observed during the site visit as outlined in Condition 5 above.</p>	<p><b>Compliant</b></p>	

Condition	Comment	Compliance Status	Observation or Recommendation
<p>The Applicant must implement the Air Quality Management Plan as approved from time to time by the Secretary.</p>			
<p><b>Meteorological Monitoring</b></p> <p>7. For the life of the development, the Applicant must ensure that there is a suitable meteorological station operating in the vicinity of the site that complies with the requirements in the Approved Methods for Sampling and Analysis of Air Pollutants in New South Wales guideline.</p>	<p>TSP advised that a Davis WeatherLink System is the standard meteorological monitoring system used at Hanson sites.</p> <p>TSP staff have access to data in the office and available on their phones via an app. Weather monitoring station observed on-site. It was not known if the system complies with the Approved Methods for Sampling and Analysis of Air Pollutants in New South Wales guideline.</p>	<p>Not verified</p>	<p>Need to determine if the meteorological station used in the assessment reports complies with the requirements in the Approved Methods for Sampling and Analysis of Air Pollutants in New South Wales guideline.</p>
<p><b>Greenhouse Gas Emissions</b></p> <p>8. The Applicant must implement all reasonable measures to minimise the release of greenhouse gas emissions from the site.</p>	<p>TSP advised Hanson have an Energy Management Policy in place (document dated 1 May 2016 observed) which includes a commitment to managing greenhouse gas emissions from operations.</p> <p>TSP advised this policy is implemented through measures such as scheduled plant and equipment servicing, idle shutdown equipment installed on vehicles and NPI Reporting undertaken.</p>	<p>Compliant</p>	
<p><b>SOIL AND WATER</b></p> <p><b>Water Supply</b></p> <p>9. The Applicant must ensure that it has sufficient water for all stages of the development, and if necessary, adjust the scale of operations under this consent to match its available water supply.</p> <p><i>Note: Under the Water Act 1912 and/or the Water Management Act 2000, the Applicant is required to obtain all necessary water licences for the</i></p>	<p>TSP advised that town water supplies potable water to the site. Lake water is typically used for operations such dust suppression and plant use.</p> <p>The 19/20 AEMR indicates that there are four (4) groundwater licences in place relevant to the site. These are 30WA319538 (previously 30BL179426), 30CA319526 (previously 30BL143838 and 30BL179583), 30BL207198 and 30BL179685. Each license contains provisions that relate to appropriate use, monitoring and management of groundwater</p>	<p>Compliant</p>	

Condition	Comment	Compliance Status	Observation or Recommendation
<i>development.</i>	resources at the site.		
<p><b>Water Discharges</b></p> <p>10. Except as expressly provided by an EPA licence, the Applicant must comply with section 120 of the POEO Act during the carrying out of the development.</p>	<p>TSP advised that the site is graded to fall to the lake. General environmental management measures as per the Hanson Heidelberg Cement Group (Hanson) corporate Integrated Risk Management System in place which incorporates Quality, Safety &amp; Environmental Management (including ISO14000 certification). This IRMS includes an Environment Policy, Energy Management Policy and Water Management Policy which are supported by a comprehensive system based on risk assessment, operational procedures, training and review processes.</p> <p>Site-specific induction and training are implemented and spill kits are available on-site.</p>	Compliant	
<p><b>Fines Management</b></p> <p>11. The Applicant must ensure that:</p> <p>a) no potential acid sulfate soil is removed from the site, unless adequately neutralised in accordance with methods approved under the Soil and Water Management Plan (see condition 16 below);</p> <p>b) all excavated potential acid sulfate soil fines material is discharged into the dredge pond at a depth greater than 3 metres below the water surface as soon as possible to prevent oxidation; and</p> <p>c) all fines are deposited to a final depth of at least 8 metres below the water surface, unless an alternative method(s) is approved by the EPA and the Secretary.</p> <p><i>Note: Acid sulfate soils are as defined in the NSW Acid</i></p>	<p>The Soil and Water Management Plan, May 2019 prepared by Gilbert + Sutherland was sited and correspondence observed indicating it was approved by the Secretary on 11 April 2019 subject to an amendment around exceedance reporting.</p> <p>Section 6 of the approved SWMP discusses potential for ASS disturbance and outlines the adopted approach at TSP is to:</p> <ul style="list-style-type: none"> <li>• separate PASS material from the sand product;</li> <li>• avoid oxidation of PASS; and</li> <li>• permanently reinter PASS in a stable environment, to manage the risk of oxidation.</li> </ul> <p>This is achieved through the use of a hydrocyclone at the wash plant and release of fines into the lake with the returns pipe set at 3m below surface level. Hydrographic survey shows depth greater than 8m is achieved.</p>	Compliant	

Condition	Comment	Compliance Status	Observation or Recommendation
<i>Sulfate Soils Manual</i>	ASS management & monitoring is undertaken in accordance with the approved SWMP.		
<b>Flood Management</b>  12. The Applicant must cease dredging and processing activities not less than 24 hours prior to the commencement of overflow from any dredge pond. No dredging or processing may occur when the dredge ponds are overflowing	TSP have advised that no overflow from the dredge pond has occurred in the last three (3) years. It is understood access to the site would be denied during flood events, and the surrounding area is more likely to flow into the dredge pond.	Compliant	
13. The Applicant must ensure that the flood storage capacity of the site is not less than the pre-existing flood storage capacity throughout all stages of the development. Monthly details of the available flood storage capacity must be reported in the Annual Review.	<p>The 19/20 AEMR outlines in Section 3.11 the process of determining flood capacity. Section 4.11 provides the outcome of this assessment and indicates during this period there was a net gain in flood storage capacity of 12,499m<sup>3</sup> across the site.</p> <p>The 18/19 AEMR outlines in Section 3.11 the process of determining flood capacity. Section 4.11 provides the outcome of this assessment and indicates during this period there was a net gain in flood storage capacity of 3,244m<sup>3</sup> across the site.</p> <p>Review of AEMR flood storage capacity data (e.g. Appendix 16) indicates the data is represented annually, not monthly.</p>	Non-Compliant	Suggest monthly details of available flood storage capacity are reported in the Annual Reviews.
<b>Soil and Water Management Plan</b>  14. Within three months of the determination of Modification 1, unless otherwise agreed by the Secretary, the Applicant must prepare a Soil and Water Management Plan for the development in consultation with EPA, DPI Water and Council, to the satisfaction of the Secretary. This plan must be prepared by a suitably qualified expert whose appointment has been approved by the Secretary, and include: (a) a Site Water Balance;	<p>MOD1 determination was received on 20 August 2018 and the initial SWMP was submitted to the Secretary on 20 November 2018. The Secretary advised on 7 February that the SWMP did not meet all relevant requirements and requested it be updated.</p> <p>The updated Soil and Water Management Plan was submitted to the Secretary on 28 March 2019. Correspondence was observed indicating the SWMP was approved by the Secretary on 11 April 2019 subject to an amendment around exceedance</p>	Compliant	

Condition	Comment	Compliance Status	Observation or Recommendation
<p>(b) an Erosion and Sediment Control Plan;                      (c) a Surface Water Monitoring Program;                      (d) a Groundwater Monitoring Program; and                      (e) a Blue-green Algae Management Plan</p> <p>The Applicant must implement the approved plan as approved from time to time by the Secretary.</p>	<p>reporting. The final updated SWMP, May 2019 prepared by Gilbert + Sutherland was sited.</p> <p>The approved SWMP was reviewed and Section 2.1 outlined how subsections (a) to (e) are addressed within the document.</p>		
<p>15. The Site Water Balance must include details of:</p> <p>(a) sources and security of water supply                      (b) water use and management of site;                      (c) any off-site water transfers                      (d) reporting procedures; and                      (e) measures to be implemented to minimise clean water use on site.</p>	<p>The approved SWMP was reviewed and subsections (a) to (e) are addressed within the document.</p>	Compliant	
<p>16. The Erosion and Sediment Control Plan must:</p> <p>(a) be consistent with the requirements of the Department of Housing's Managing Urban Stormwater: Soil and Construction Manual, the NSW Acid Sulfate Soil Advisory Committee's Acid Sulfate Soil Manual, and relevant Council codes including the Code of Practice for Soil and Water Management on Construction Sites , or most recent versions of these documents ;</p> <p>(b) describe construction and operational activities that could cause soil erosion, sedimentation or generation of acid sulfate soils</p> <p>(c) describe the location, function, and capacity of soil and water management and control structures during construction, stabilization and operational stages;</p> <p>(d) describe measures to minimise soil erosion and the potential for the transport of sediment to downstream waters;</p> <p>(e) define procedures for managing the potential acid sulfate soils on the site;</p>	<p>The approved SWMP was reviewed and subsections (a) to (g) are addressed within the document.</p>	Compliant	



Condition	Comment	Compliance Status	Observation or Recommendation
(f) define procedures for managing water releases from the site; and (g) define procedures for the maintenance of soil and water management structures on the site during the life of the development.			
17. The Surface Water Monitoring Program must include: (a) a detailed description of the surface water management system; (b) surface water impact assessment criteria; (c) a program to monitor bank and bed stability; (d) a program to monitor and manage pH in the dredge pond; (e) a program to monitor and report on adverse impacts of the project on surface water flows and quality, including any surface water discharges; and (f) a protocol for the investigation, notification and mitigation of identified exceedances of the surface water impact assessment criteria.	The approved SWMP was reviewed and subsections (a) to (f) are addressed within the document.	Compliant	
18. The Groundwater Monitoring Program must include: (a) detailed baseline data on groundwater levels and quality, based on statistical analysis; (b) groundwater impact assessment criteria; (c) a program to monitor and report on adverse impacts of the project on groundwater flows and quality; (d) a program to monitor groundwater level effects on vegetation, and on	The approved SWMP was reviewed and subsections (a) to (e) are addressed within the document.	Compliant	

Condition	Comment	Compliance Status	Observation or Recommendation
(e) groundwater supply to adjoining properties; and a protocol for the investigation, notification and mitigation of identified exceedances of the groundwater impact assessment criteria.			
19. The Blue-Green Algae Management Plan must: <ul style="list-style-type: none"> <li>(a) be consistent with extant guidelines for blue-green algae management including the National Health and Medical Research Council's <i>Guidelines for Managing Risks in Recreational Water</i>;</li> <li>(b) describe the measures that would be implemented to prevent and control the sources of algal blooms over the short, medium and long term;</li> <li>(c) include a detailed recovery plan that aims to reduce algae levels to meet the water quality performance and completion criteria in the Rehabilitation Management Plan;</li> <li>(d) include reasonable and feasible measures to reduce nutrient levels in the pond/s over the short, medium and long term, and include interim water quality targets for nutrients based on continual improvement and established water quality objectives for the Tweed River catchment; and</li> <li>(e) define procedures for the management and notification of identified algal blooms.</li> </ul>	The approved SWMP was reviewed and subsections (a) to (e) are addressed within the document.	Compliant	
<b>TRANSPORT</b>			
<b>Site Access</b> 20. The Applicant must ensure that all heavy vehicle access to and from the site is via the Tweed Coast	Hanson have a Drivers Code of Conduct in place which drivers are trained in and then required to carry a signed copy confirming understanding of requirements. This covers site specific requirements including operating hours, dispatch limitations,	Compliant	

Condition	Comment	Compliance Status	Observation or Recommendation
Road/Crescent Road/Altona Road route. Heavy vehicles must not travel via Crescent Street through Cudgen Village, except for local deliveries to Cudgen Village.	routes, behavioural expectations. Code of Conduct Oct 2020 observed.  An Operational Traffic Management Plan dated 7 March 2019 prepared by SLR was observed. TMP approval correspondence dated 11/04/2109 from the Department was observed. TSP advised trucks contain GPS tracking and display delivery routes.		
<p><b>Upgrade and Maintenance of Altona Road</b></p> 21. The Applicant must upgrade Altona Road between the site entrance and intersection with Crescent Street. This upgrade must: <p>(a) include two additional passing bays along the current alignment of Altona Road, each having sufficient length to readily accommodate a laden truck and dog trailer combination, to the satisfaction of the owners of the road; and</p> <p>(b) be funded by the Applicant, or by a cost sharing agreement between the Applicant and the owner of the Cudgen Lakes Sand Quarry, in consultation with Council.</p>	DPIE correspondence dated 21/05/19 was observed and outlined that fulfillment of the condition is subject to TSC satisfaction and that the Department considered the proposed additional length of the passing bay would exceed the condition requirement.  With agreement from Council, one longer additional passing bay, in lieu of the two additional passing bays was constructed along the Altona Road. TSC Works as Executed Compliance Certificate No. 20/005 dated 7 May 2020 was observed.  The Applicant funded the road upgrade with no cost sharing agreement in place with Cudgen Lakes Sand Quarry.	Compliant	
22. Within 12 months of the approval of Modification 1, the Applicant must enter into a cost sharing agreement with the owner of the Cudgen Lakes Sand Quarry, in consultation with Council, for the maintenance of Altona Road between the site entrance and intersection with Crescent Street. This agreement must: <p>(a) provide for ongoing repairs and maintenance of the road;</p> <p>(b) apply to the existing or any future approved alignment</p> <p>(c) of Altona Road; and</p>	Modification 1 was approved on 20 August 2018.  TSP advised that despite attempts to negotiate a cost sharing agreement with the Cudgen Lakes Sand Quarry, agreement could not be reached.  The matter has been referred to the Secretary for mediation, however no resolution has been made to date. At the time of the audit the Secretary had not responded to this correspondence and a follow up email was sent on 26/08/2021 requesting an update on this and other outstanding matters.	Compliant	

Condition	Comment	Compliance Status	Observation or Recommendation
<p>(d) provide for proportionate and equitable contributions between the Applicant and the owner of the Cudgen Lakes Sand Quarry (based on actual annual product road transport or other measure/s agreed by the parties).</p> <p>If a cost sharing agreement cannot be reached or if there is any dispute regarding the finalisation of the terms of the cost sharing agreement, or its implementation, then either party may refer the matter to the Secretary for resolution.</p>			
<p><b>Upgrade of the Crescent Street and Tweed Coast Road Intersection</b></p> <p>23. The Applicant must upgrade the intersection of Crescent Street and Tweed Coast Road. This upgrade must:</p> <ul style="list-style-type: none"> <li>(a) provide for the construction of an acceleration lane of not less than 200 metres in length on Tweed Coast Road, northbound from the intersection, to the satisfaction of Council (as roads authority);</li> <li>(b) provide for channelised right turn treatment (line marking only) on Tweed Coast Road for vehicles turning right into Crescent Street;</li> <li>(c) be designed and constructed in accordance with Austroads Guidelines, Australian Standards and RMS Supplements; and</li> <li>(d) be funded by the Applicant, or by a cost sharing agreement between the Applicant and the owner of the Cudgen Lakes Sand Quarry, in consultation with Council;</li> </ul>	<p>Hanson provided documentation including the stamped Approved Schedule of Drawings for Proposed Road Widening from Tweed Shire Council under s138 Road Act 1993. (Approval No DWY19/0137.</p> <p>A Tweed Shire Council Works as Executed Compliance Certificate No. 20/005 dated 7 May 2020 was included in Attachment 1.</p> <p>With agreement from Council, one longer additional passing bay, in lieu of the two additional passing bays was constructed along the Altona Road. TSC Works as Executed Compliance Certificate No. 20/005 dated 7 May 2020 was observed.</p> <p>The channelised right turn treatment (line marking only) was observed on Tweed Coast Road for vehicles turning right into Crescent Street.</p> <p>The Applicant funded the road upgrade with no cost sharing agreement in place with Cudgen Lakes Sand Quarry.</p> <p>The matter has been referred to the Secretary for mediation, however no resolution has been made to date. At the time of the audit the Secretary had not responded to this correspondence and a follow up</p>	<p>Compliant</p>	

Condition	Comment	Compliance Status	Observation or Recommendation
<p>If a cost sharing agreement cannot be reached or if there is any dispute regarding the finalisation of the terms of the cost sharing agreement, or its implementation, then either party may refer the matter to the Secretary for resolution.</p> <p><i>Note: The proposed road works on Tweed Coast Road (MR450) will be captured by Section 138 of the Roads Act 1993. Concept Design is to be submitted to Tweed Shire Council for referral to Roads and Maritime for concurrence under Section 138 of the Roads Act 1993.</i></p>	<p>email was sent on 26/08/2021 requesting an update on this and other outstanding matters.</p>		
<p><b>Operating Conditions</b></p> <p>24. The Applicant must:</p> <ul style="list-style-type: none"> <li>(a) provide sufficient parking on the site for all project-related traffic and visitors, in accordance with any applicable Council parking code and ensure that no on street parking is undertaken;</li> <li>(b) ensure that on-site parking and pedestrian facilities are adequately signposted;</li> <li>(c) ensure that all laden trucks entering or exiting the site have their loads covered;</li> <li>(d) ensure that all laden trucks exiting the site are cleaned of material that may fall from vehicles, before leaving the site;</li> <li>(e) use its best endeavours to ensure that appropriate signage is displayed on all trucks used to transport quarry products from the development so they can be easily identified by road users; and</li> <li>(f) keep accurate records of all laden truck movements to and from the site and publish a summary of these records on its website every month</li> </ul>	<p>TSP advised that measures are in place to address the nominated operating conditions. The following observations were also made during the site visit:</p> <ul style="list-style-type: none"> <li>(a) TSP advised there are three (3) staff on-site who park within the shed next to the office. Sufficient parking was also available on site for visitors and project-related traffic.</li> <li>(b) Site Map provided and signage displayed in parking area.</li> <li>(c) All vehicles must have covered loads to enter or exit the site.</li> <li>(d) Shaker grid installed at entry/exit and brooms provided on trucks. Truckwash facility which drains to lake available if required.</li> <li>(e) Only Hanson &amp; Boral trucks utilize the site and have company branding on vehicles.</li> <li>(f) TSP website displays truck movement data in six monthly reports, however the data is updated and uploaded to the Hanson on a monthly basis. Reports from July -Dec 2018, Jan – June 2019, July – Dec 2019, Jan – June 2020, July</li> </ul>	Compliant	

Condition	Comment	Compliance Status	Observation or Recommendation
	– Dec 2020 and Jan-June 2021 observed on the website.		
<p><b>Transport Management Plan</b></p> <p>25. The Applicant must prepare a Traffic Management Plan for the development to the satisfaction of the Secretary. This plan must:</p> <ul style="list-style-type: none"> <li>(a) be prepared by suitably qualified and experienced person/s whose appointment has been endorsed by the Secretary;</li> <li>(b) be prepared in consultation with RMS and Council, and in accordance with the RTA - Traffic Control at Worksites Manual;</li> <li>(c) describe the processes in place for the management of truck movements entering and exiting the site;</li> <li>(d) prohibit trucks departing the site from turning right from Crescent Street to Tweed Coast Road;</li> <li>(e) include a Drivers ' Code of Conduct that includes:                             <ul style="list-style-type: none"> <li>• details of the safe and quiet driving practices that must be used by drivers travelling to and from the quarry;</li> <li>• a map of the primary haulage route;</li> <li>• safety initiatives for haulage through residential areas, school zones and along school bus routes;</li> <li>• an induction process for vehicle operators and regular toolbox meetings;</li> <li>• complaints resolution and disciplinary procedures; and</li> <li>• details of community consultation measures for peak haulage periods.</li> </ul> </li> <li>(f) describe the measures to be put in place to ensure compliance with the Drivers' Code of</li> </ul>	<p>An Operational Traffic Management Plan dated 7 March 2019 prepared by SLR was observed. TMP approval correspondence dated 11/04/2109 from the Department was observed.</p> <p>Section 1.2 of the approved TMP outlines how the document addresses subsections (a) to (h).</p> <p>Hanson have a Drivers Code of Conduct in place which drivers are trained in and then required to carry a signed copy confirming understanding of requirements. This covers site specific requirements including operating hours, dispatch limitations, routes, behavioural expectations. Code of Conduct Oct 2020 observed.</p> <p>TSP advised the TMP is part of all driver inductions.</p>	Compliant	

Condition	Comment	Compliance Status	Observation or Recommendation
<p>Conduct;</p> <p>(g) include details of the measures to be implemented to minimise traffic safety issues and disruption to local road users during road upgrade works; and</p> <p>(h) propose measures to minimise the transmission of dust and tracking of material onto the surface of public roads from vehicles leaving the quarry.</p> <p>The Applicant must not commence operations under Modification 1 until the Traffic Management Plan is approved by the Secretary.</p> <p>The Applicant must implement the approved Traffic Management Plan as approved from time to time by the Secretary.</p>			
<b>REHABILITATION</b>			
<p><b>Rehabilitation Objectives</b></p> <p>26. The Applicant must rehabilitate the site to the satisfaction of the Secretary. This rehabilitation must be generally consistent with the proposed rehabilitation activities described in the documents listed in condition 3 of Schedule 2, and comply with the objectives in Table 4.</p>	<p>TSP advised the current Rehabilitation and Landscape Management Plan dated 13 March 2019, prepared by JWA Ecological Consultants was approved by the Department on 11 April 2019. Approval correspondence from the Department was observed.</p> <p>The 2019 RLMP has now been amended by JWA to re-order the proposed rehabilitation stages to better align with current and proposed future sand extraction areas and extraction rates. The updated RLMP is dated 12 March 2021 and is currently with the Department for review and approval.</p> <p>TSP advised rehabilitation in Zones 1 &amp; 3 are complete, currently working in Zone 5. Progressive rehabilitation works to date were observed during the site visit. Active dredging is still occurring on-</p>	<b>Compliant</b>	

Condition	Comment	Compliance Status	Observation or Recommendation								
<p><i>Table 4: Rehabilitation Objectives</i></p> <table border="1" data-bbox="208 304 887 651"> <thead> <tr> <th data-bbox="208 304 421 323">Feature</th> <th data-bbox="421 304 887 323">Objective</th> </tr> </thead> <tbody> <tr> <td data-bbox="208 344 421 384">All areas of the site affected by the development</td> <td data-bbox="421 344 887 488"> <ul style="list-style-type: none"> <li>• Safe</li> <li>• Hydraulically and geotechnically stable, including the dredge pond margins (particularly where subject to regular wind and wave action)</li> <li>• Non-polluting</li> <li>• Fit for the intended post-mining land use(s)</li> <li>• Final landform integrated with surrounding natural landforms as far as is reasonable and feasible, and minimising visual impacts when viewed from surrounding land</li> </ul> </td> </tr> <tr> <td data-bbox="208 488 421 523">Surface Infrastructure</td> <td data-bbox="421 488 887 523"> <ul style="list-style-type: none"> <li>• Decommissioned and removed, unless otherwise agreed by the Secretary</li> </ul> </td> </tr> <tr> <td data-bbox="208 523 421 651">Dredge Pond and Final Lake</td> <td data-bbox="421 523 887 651"> <ul style="list-style-type: none"> <li>• Perimeter of dredge pond landscaped and vegetated using native tree and understorey species</li> <li>• Natural looking bank design with curved lake boundaries, with a variety of bank treatments (eg beaches, wetlands) providing a variety of habitats</li> <li>• Minimise the extent and persistence of algal blooms</li> <li>• Water quality fit for the intended post-mining land use(s)</li> </ul> </td> </tr> </tbody> </table>	Feature	Objective	All areas of the site affected by the development	<ul style="list-style-type: none"> <li>• Safe</li> <li>• Hydraulically and geotechnically stable, including the dredge pond margins (particularly where subject to regular wind and wave action)</li> <li>• Non-polluting</li> <li>• Fit for the intended post-mining land use(s)</li> <li>• Final landform integrated with surrounding natural landforms as far as is reasonable and feasible, and minimising visual impacts when viewed from surrounding land</li> </ul>	Surface Infrastructure	<ul style="list-style-type: none"> <li>• Decommissioned and removed, unless otherwise agreed by the Secretary</li> </ul>	Dredge Pond and Final Lake	<ul style="list-style-type: none"> <li>• Perimeter of dredge pond landscaped and vegetated using native tree and understorey species</li> <li>• Natural looking bank design with curved lake boundaries, with a variety of bank treatments (eg beaches, wetlands) providing a variety of habitats</li> <li>• Minimise the extent and persistence of algal blooms</li> <li>• Water quality fit for the intended post-mining land use(s)</li> </ul>	<p>site.</p> <p>TSP advised the updated RLMP primarily this involves stages 2 and 4 at the north and north-west of the current dredge lake moving from the original Medium Term rehabilitation timeframe, to the Long Term.</p> <p>In return, stages 6 and 7 at the western extremity of the current dredge lake, originally part of the Long Term rehabilitation plan, have been brought forward to the Medium Term rehabilitation timeframe.</p> <p>The proposed rehabilitation is considered to be generally consistent with documents in Condition 3 of Schedule 2 and objectives in Table 4.</p>		
Feature	Objective										
All areas of the site affected by the development	<ul style="list-style-type: none"> <li>• Safe</li> <li>• Hydraulically and geotechnically stable, including the dredge pond margins (particularly where subject to regular wind and wave action)</li> <li>• Non-polluting</li> <li>• Fit for the intended post-mining land use(s)</li> <li>• Final landform integrated with surrounding natural landforms as far as is reasonable and feasible, and minimising visual impacts when viewed from surrounding land</li> </ul>										
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<p><b>Progressive Rehabilitation</b></p> <p>27. The Applicant 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 stabilisation measures must be implemented where reasonable and feasible to control dust emissions in disturbed areas that are not active and which are not ready for final rehabilitation.</p>	<p>TSP advised rehabilitation in Zones 1 &amp; 3 are complete, currently working in Zone 5. Progressive rehabilitation works to date and minimization of stripped areas was observed during the site visit.</p> <p>No dust nuisance was observed at the time of the site visit.</p>	Compliant									
<p><b>Rehabilitation Management Plan</b></p> <p>28. The Applicant must prepare a Rehabilitation Management Plan for the project to the satisfaction of the Secretary. This plan must:</p> <ol style="list-style-type: none"> <li>(a) be prepared by suitably qualified and experienced persons whose appointment as been endorsed by the Secretary;</li> <li>(b) be prepared in consultation with DoI, Council and OEH;</li> </ol>	<p>MOD1 determination was received on 20 August 2018 and the initial Rehabilitation and Landscape Management Plan (RLMP) was submitted to the Secretary on 20 November 2018. The Secretary advised on 7 February that the RLMP did not meet all relevant requirements and requested it be updated.</p> <p>The updated RLMP was submitted to the Secretary on 28 March 2019. Correspondence was observed indicating the RLMP was approved by the Secretary</p>	Compliant									



Condition	Comment	Compliance Status	Observation or Recommendation
<p>(c) be submitted to the Secretary for approval within three months of the determination of Modification 1, unless the Secretary agrees otherwise;</p> <p>(d) include a detailed final landform concept plan, showing the final lake and bank design;</p> <p>(e) describe how the rehabilitation of the site would achieve the objectives identified in Table 4;</p> <p>(f) describe the short, medium, and long-term measures that would be implemented to:</p> <ul style="list-style-type: none"> <li>• rehabilitate and stabilise the site; and</li> <li>• manage the restored vegetation and wetland habitat established on the site;</li> </ul> <p>(g) include detailed performance and completion criteria for the rehabilitation and stabilisation of the site (including appropriate water quality criteria);</p> <p>(h) include a detailed description of the measures to be implemented on the site to:</p> <ul style="list-style-type: none"> <li>• enhance existing vegetation and increase littoral and terrestrial habitat potential;</li> <li>• control terrestrial and aquatic pests and weeds;</li> <li>• control erosion;</li> <li>• control access; and</li> <li>• reduce the visual impacts of the development;</li> </ul> <p>(i) include a vegetation clearance protocol;</p> <p>(j) include a program to monitor, independently audit and report on the effectiveness of the measures in paragraph (f) above, and progress against the detailed performance and completion criteria in paragraph (g) above; and</p> <p>(k) include a Long-Term Management Strategy</p>	<p>on 11 April 2019.</p> <p>The current RLMP dated 13 March 2019, prepared by JWA Ecological Consultants was sited.</p> <p>TSP advised that the 2019 RLMP has now been amended by JWA to re-order the proposed rehabilitation stages to better align with current and proposed future sand extraction areas and extraction rates. The updated RLMP is dated 12 March 2021 and is currently with the Department for review and approval.</p> <p>Section 1.3 of the approved RLMP outlines how the document addresses subsections (a) to (m).</p>		

Condition	Comment	Compliance Status	Observation or Recommendation
<p>which:</p> <ul style="list-style-type: none"> <li>• defines the objectives and criteria for quarry closure and post-extraction management;</li> <li>• investigates options for the future use of the site;</li> <li>• describes the measures that would be implemented to minimise or manage the ongoing environmental effects of the project; and</li> <li>• describes how the performance of these measures would be monitored over time;</li> </ul> <p>(l) describe the potential risks to successful rehabilitation and/or revegetation, including a description of the contingency measures that would be implemented to mitigate these risks; and</p> <p>(m) detail of who is responsible for monitoring, reviewing, and implementing the plan.</p> <p>The Applicant must implement the approved Rehabilitation Management Plan as approved from time to time by the Secretary.</p> <p><i>Note: The measures for stabilising the dredge pond and final lake must ensure the long-term stability of the banks from erosion and must be generally consistent with the rock stabilisation methods described in the report titled Cudgen Lake Slope Stability Review, prepared by International Coastal Management, dated December 2005, unless otherwise approved by the Secretary.</i></p>			
<p><b>Rehabilitation Bond</b></p> <p>29. Within 6 months of the approval of the Rehabilitation</p>	<p>TSP advised the current Rehabilitation and Landscape Management Plan dated 13 March 2019, prepared by JWA Ecological Consultants was</p>	Compliant	

Condition	Comment	Compliance Status	Observation or Recommendation
<p>Management Plan, the Applicant must lodge a Rehabilitation Bond with the Department to ensure that the rehabilitation of the site is undertaken in accordance with the performance and completion criteria set out in the plan and the relevant conditions of consent. The sum of the bond must be an amount agreed to by the Secretary and determined by:</p> <p>(a) calculating the cost of rehabilitating all disturbed areas of the site, taking into account the likely surface disturbance over the next 3 years of quarrying operations; and</p> <p>(b) employing a suitably, independent and experienced person to verify the calculated costs.</p> <p>The calculation of the Rehabilitation Bond must be submitted to the Department for approval at least 1 month prior to the lodgement of the bond.</p>	<p>approved by the Department on 11 April 2019.</p> <p>Hanson correspondence dated 3 September 2019 was observed seeking approval for a revised Rehabilitation Bond of \$692,829. The Department issued correspondence approving the revised Rehabilitation Bond on 5 November 2019.</p> <p>The updated bank guarantee for the revised Rehabilitation Bond in the form of Citibank Bank Guarantee Ref 503190035 dated 25 November 2019 was observed.</p>		
<p>30. The Rehabilitation Bond must be reviewed and if required, an updated bond must be lodged with the Department within 3 months following:</p> <p>(a) any update or revision to the Rehabilitation Management Plan;</p> <p>(b) the completion of an Independent Environmental Audit; or</p> <p>(c) in response to a request by the Secretary.</p> <p><i>Notes</i></p> <ul style="list-style-type: none"> <li><i>If the rehabilitation of the site area is completed (or partially completed) to the satisfaction of the Secretary, then the Secretary will release the bond (or relevant part of the bond). If the 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.</i></li> <li><i>If capital and other expenditure required by the Rehabilitation Management Plan is largely complete, the</i></li> </ul>	<p>The 2019 RLMP has now been amended by JWA to re-order the proposed rehabilitation stages to better align with current and proposed future sand extraction areas and extraction rates. The updated RLMP is dated 12 March 2021 and is currently with the Department for review and approval.</p> <p>TSP advised that review of the Rehabilitation Bond will occur subject to the Departments review and approval of the updated RLMP.</p>	Compliant	

Condition	Comment	Compliance Status	Observation or Recommendation
<i>Secretary may waive the requirement for lodgement of a bond in respect of the remaining expenditure</i>			
<p><b>VISUAL</b></p> <p>31. The Applicant must maintain a tree screen along the southern boundary of the site.</p> <p><i>Note: Construction and maintenance of the tree screen must be described in the Rehabilitation Management Plan (see condition 28 above).</i></p>	<p>A tree screen along the southern boundary of the site was observed during the site visit.</p>	<p>Compliant</p>	
<p>32. The Applicant must implement all reasonable measures to minimise the visual and off-site lighting impacts of the development to the satisfaction of the Secretary.</p>	<p>TSP advised that the site is not operation at night. Movement triggered security lights are installed on buildings. No complaints regarding lighting have been received to date.</p>	<p>Compliant</p>	
<p><b>WASTE</b></p> <p>33. The Applicant must:</p> <ul style="list-style-type: none"> <li>(a) manage on-site sewage treatment and disposal in accordance with the requirements of its EPL, and to the satisfaction of the EPA and Council;</li> <li>(b) minimise the waste generated by the development;</li> <li>(c) ensure that the waste generated by the development is appropriately stored, handled, and disposed of; and</li> <li>(d) report on waste Management and minimisation in the Annual Review, to the satisfaction of the Secretary.</li> </ul>	<p>TSP advised that the on-site sewage treatment plant is servicing annually. The most recent invoice for servicing undertaken by Tweed Byron Treatment Plan invoiced on 24/3/21 was observed. TSP advised they have a Sustainability Policy (September 2020 document observed) in place which includes commitments to minimizing waste disposal in accordance with the waste management hierarchy.</p> <p>Relatively small quantities of waste generated on-site. TSP advised Solo Waste collect general waste, Cliffords Metal Recycling collect metal waste, Summerland collect waste oil for recycling (service docket dated 03/06/2021 observed).</p> <p>The 20/21 AEMR was not yet available at the time of this audit.</p> <p>The 19/20 AEMR provides a summary in Section 2.1.3 of on-site waste management and</p>	<p>Compliant</p>	

Condition	Comment	Compliance Status	Observation or Recommendation
	minimisation during this period.  The 18/19 AEMR provides a summary in Section 2.1.2 of on-site waste management and minimisation during this period.		
33. Except as expressly permitted in an EPL, the Applicant must not receive waste at the site for storage, treatment, processing, reprocessing or disposal.	TSP advised that no waste is received at the site for storage, treatment, processing, reprocessing or disposal.	Compliant	
<b>LIQUID STORAGE</b>  34. The Applicant must ensure that all tanks and similar storage facilities (other than for water) are protected by appropriate bunding or other containment, in accordance with the relevant Australian Standards .	A Fuelco self-bunded 11,000L diesel tank was observed on site. The Fuelco Klassic – LTKL 12 self-bunded tank product specification indicates compliance with AS1940, AS1692, AS1657 and UL142.  Fresh and waste oil and grease is also stored on site in bunded storage areas. Fire extinguisher provided. Spill kit available on-site – 2 in workshop, 1 on barge and 1 at fuel tank.	Compliant	
<b>DANGEROUS GOODS</b>  35. The Applicant must ensure that the storage, handling, and transport of dangerous goods is done in accordance with the relevant Australian Standards, particularly AS1940 and AS1596, and the <i>Dangerous Goods Code</i> .	TSP advised they have a Safety Management System in place and risk assessment are undertaken for each product. Hazardous Substances/Dangerous Goods/Chemical and Safety Data Sheet Manual observed on-site.  Refer above in relation to the Fuelco self-bunded 11,000L diesel tank compliant. TSP advised Caltex deliver fuel to site as required.  Please note, a detailed compliance audit against the Dangerous Goods Code and nominated AS was not undertaken as part of this audit.	Not Verified	
<b>SCHEDULE 4 - ADDITIONAL PROCEDURES</b>			

Condition	Comment	Compliance Status	Observation or Recommendation
<p><b>NOTIFICATION OF EXCEEDANCES</b></p> <p>1. As soon as practicable and no longer than 7 days after obtaining monitoring results showing an exceedance of any criteria in Schedule 3 the Applicant must:</p> <ul style="list-style-type: none"> <li>(a) notify the affected land owners and tenants in writing of the exceedance, and provide quarterly monitoring results, to each affected party until the development is again complying with the relevant criteria; and</li> <li>(b) publish on its website the full details of the exceedance.</li> </ul> <p>Any exceedance of any criteria in Schedule 3 is an incident that must be notified to the Department in accordance with conditions 9 to 12 of Schedule 5.</p> <p>For any exceedance of the air quality criteria or air quality measures in Schedule 3, the Applicant must also provide to any affected land owners and tenants a copy of the fact sheet entitled " Mine Dust and You" (NSW Minerals Council, 2011).</p>	<p>TSP advised that Exceedance Registers are available on their website, with Registers for 2019, 2020 and 2021 observed on the website.</p> <p>TSP advised that exceedance incident notifications occur within the required timeframes, however it could not be verified if affected parties had been identified and notified.</p>	<p>Not verified</p>	<p>Suggest affected land owners and tenants be identified and a list of affected parties for notification purposes be prepared in relation to exceedance of any criteria in Schedule 3.</p>
<p><b>INDEPENDENT REVIEW</b></p> <p>2. If an owner of privately-owned land considers the development to be exceeding the relevant criteria in Schedule 3, then he/she may ask the Secretary in writing for an independent review of the impacts of the development on his/her land.</p> <p>If the Secretary is satisfied that an independent review is warranted, within 3 months of the Secretary's</p>	<p>TSP advised that no requests of this nature have been received from the Secretary during the audit period.</p>	<p>Compliant</p>	

Condition	Comment	Compliance Status	Observation or Recommendation
<p>decision, or as otherwise agreed by the Secretary with the landowner, the Applicant must:</p> <p>(a) commission a suitably qualified, experienced and independent person, whose appointment has been approved by the Secretary, to:</p> <ul style="list-style-type: none"> <li>• consult with the landowner to determine their concerns;</li> <li>• conduct monitoring to determine whether the development is complying with the relevant criteria in Schedule 3; and</li> <li>• if the development is not complying with that criteria, identify measures that could be implemented to ensure compliance with the relevant criteria;</li> </ul> <p>(b) give the Secretary and landowner a copy of the independent review; and</p> <p>(c) comply with any written requests made by the Secretary to implement any findings of the review.</p>			
<b>SCHEDULE 5 - ENVIRONMENTAL MANAGEMENT, REPORTING AND AUDITING</b>			
<p><b>ENVIRONMENTAL MANAGEMENT</b></p> <p><b>Environmental Management Strategy</b></p> <p>1. The Applicant must prepare an Environmental Management Strategy for the development to the satisfaction of the Secretary. The strategy must:</p> <p>(a) be submitted to the Secretary for approval within three months of the determination of Modification 1;</p>	<p>MOD1 determination was received on 20 August 2018 and the initial Environmental Management Strategy (EMS) was submitted to the Secretary on 20 November 2018. The Secretary advised on 7 February that the EMS did not meet all relevant requirements and requested it be updated.</p> <p>The updated EMS was submitted to the Secretary on 28 March 2019. Correspondence was observed indicating the EMS was approved by the Secretary</p>	<b>Compliant</b>	

Condition	Comment	Compliance Status	Observation or Recommendation
<p>(b) provide the strategic framework for environmental management of the development;</p> <p>(b) identify the statutory approvals that apply to the development;</p> <p>(d) describe the role, responsibility, authority and accountability of all key personnel involved in the environmental management of the development;</p> <p>(e) describe the procedures to be implemented to:</p> <ul style="list-style-type: none"> <li>• keep the local community and relevant agencies informed about the operation and environmental performance of the development;</li> <li>• receive, record, handle and respond to complaints;</li> <li>• resolve any disputes that may arise during the course of the development ;</li> <li>• respond to any non-compliance ; and</li> <li>• respond to emergencies; and</li> </ul> <p>(f) include:</p> <ul style="list-style-type: none"> <li>• copies of any strategies, plans and programs approved under the conditions of this consent; and</li> <li>• a clear plan depicting all the monitoring to be carried out under the conditions of this consent.</li> </ul> <p>The Applicant must implement the Environmental Management Strategy as approved from time to time by the Secretary.</p>	<p>on 11 April 2019.</p> <p>The Environmental Management Strategy, March 2019 prepared by Gilbert + Sutherland was sited and correspondence observed indicating it was approved by the Secretary on 11 April 2019.</p> <p>The approved EMS was reviewed and Section 2.1 outlined how subsections (a) to (f) are addressed within the document.</p>		
<p><b>Management Plan Requirements</b></p> <p>2. The Applicant must ensure that the management plans required under this consent are prepared in accordance with any relevant guidelines, and</p>	<p>Section 2.1 of the approved Soil and Water Management Plan was observed to contain a summary indicating these requirements were addressed.</p>	Compliant	



Condition	Comment	Compliance Status	Observation or Recommendation
include: (a) a summary of relevant background or baseline data; (b) a description of: <ul style="list-style-type: none"> <li>• the relevant statutory requirements (including any relevant approval, licence or lease conditions);</li> <li>• any relevant limits or performance measures/criteria; and</li> <li>• the specific performance indicators that are proposed to be used to judge the performance of, or guide the implementation of, the development or any management measures;</li> </ul> (c) a description of the measures to be implemented to comply with the relevant statutory requirements, limits, or performance measures/criteria; (g) a program to monitor and report on the: <ul style="list-style-type: none"> <li>• impacts and environmental performance of the development; and</li> <li>• effectiveness of any management measures (see c above);</li> </ul> (e) a contingency plan to manage any unpredicted impacts and their consequences and to ensure that ongoing impacts reduce to levels below relevant impact assessment criteria as quickly as possible; (f) a program to investigate and implement ways to improve the environmental performance of the development over time; (g) a protocol for managing and reporting any: <ul style="list-style-type: none"> <li>• incidents;</li> <li>• complaints; and</li> <li>• non-compliances with statutory</li> </ul>	Section 1.2 of the approved Traffic Management Plan was observed to contain a summary indicating these requirements were addressed.  Section 1.3 of the approved Noise Management Plan was observed to contain a summary indicating these requirements were addressed.  TSP advised that the Secretary has not waived any of these requirements.  Acceptance by the Department of the Management Plans for Air Quality and Rehabilitation infers criteria has been met.		

Condition	Comment	Compliance Status	Observation or Recommendation
<p>requirements;</p> <p>(h) a protocol for periodic review of the plan; and</p> <p>(i) a document control table that includes version numbers, dates when the management plan was prepared and reviewed, names and positions of the person/s who prepared and reviewed the management plan, a description of any revisions made and the date of the Secretary's approval.</p> <p><i>Note: The Secretary may waive some of these requirements if they are unnecessary or unwarranted for particular management plans</i></p>			
<p><b>Application of Existing Management Plans</b></p> <p>3. The Applicant must continue to apply existing approved management plans, strategies or monitoring programs that have most recently been approved under this consent, until the approval of a similar plan, strategy or program following a modification to this consent</p>	<p>TSP advised that existing approved management plans, strategies and monitoring programs are implemented.</p> <p>Is in understood that the 2019 RLMP has now been amended by JWA to re-order the proposed rehabilitation stages to better align with current and proposed future sand extraction areas and extraction rates. The updated RLMP is dated 12 March 2021 and is currently with the Department for review and approval.</p>	Compliant	
<p><b>Revision of Strategies, Plans &amp; Programs</b></p> <p>4. Within 3 months of:</p> <p>(a) the submission of an incident report under condition 10 of this Schedule;</p> <p>(b) the submission of an Annual Review under condition 13 of this Schedule;</p> <p>(c) the submission of an Audit report under condition 14 of this Schedule; or</p>	<p>TSP advised that the corporate IRIS- Integrated Risk Information System is used to monitor and record review of environmental strategies, plans &amp; programs. Hanson's Enviro Compliance &amp; Planning Coordinator is responsible for undertaking such reviews and a record of the Review of the EMS System dated 25/2/21 was observed in IRIS.</p>	Compliant	

Condition	Comment	Compliance Status	Observation or Recommendation
<p>(d) the approval of any modification to the conditions of this consent.                      the Applicant must review the suitability of all strategies, plans and programs required under this consent. Where this review leads to revisions in any such document, then within 6 weeks of the review the revised document must be submitted for the approval of the Secretary.</p> <p>Notes:</p> <ul style="list-style-type: none"> <li><i>This is to ensure that strategies, plans and programs are regularly updated to incorporate any measures recommended to improve the environmental performance of the development.</i></li> <li><i>In the event of an inconsistency between condition 4(d) above and any condition in Schedule 3 of this consent, then the latter prevails.</i></li> </ul>	<p>The 18/19 AEMR indicates in Section 2.1.7 that the required Management Plans were submitted to the Department on 20 November 2018 (within 3 months of the MOD1 approval on 20 August 2018). The current strategies, plans &amp; programs in place were approved in 2019.</p> <p>TSP advised that there has been no revision otherwise triggered, however the 2019 RLMP has now been amended by JWA to re-order the proposed rehabilitation stages to better align with current and proposed future sand extraction areas and extraction rates. The updated RLMP is dated 12 March 2021 and is currently with the Department for review and approval.</p>		
<p><b>Staging, Combining and Updating Strategies, Plans or Programs</b></p> <p>5. With the approval of the Secretary, the Applicant may:</p> <p>(a) prepare and submit any strategy, plan or program required by this consent on a staged basis (if a clear description is provided as to the specific stage and scope of the development to which the strategy, plan or program applies, the relationship of the stage to any future stages and the trigger for updating the strategy, plan or program);</p> <p>(b) combine any strategy, plan or program required by this consent (if a clear relationship is demonstrated between the</p>	<p>TSP advised the current Rehabilitation and Landscape Management Plan dated 13 March 2019, prepared by JWA Ecological Consultants was approved by the Department on 11 April 2019. Approval correspondence from the Secretary was observed.</p> <p>The 2019 RLMP has now been amended by JWA to re-order the proposed rehabilitation stages to better align with current and proposed future sand extraction areas and extraction rates. The updated RLMP is dated 12 March 2021 and is currently with the Department for review and approval (submitted to DPIE on 08/04/2021).</p>	Compliant	

Condition	Comment	Compliance Status	Observation or Recommendation
<p>strategies, plans or programs that are proposed to be combined}; and</p> <p>(c) update any strategy, plan or program required by this consent (to ensure the strategies, plans and programs required under this consent are updated on a regular basis and incorporate additional measures or amendments to improve the environmental performance of the development).</p>			
<p><b>Evidence of Consultation</b></p> <p>6. Where the conditions of this consent require consultation with an identified party, the Applicant must:</p> <p>(a) consult with the relevant party prior to submitting the subject document to the Secretary for approval; and</p> <p>(b) provide details of the consultation undertaken, including:</p> <ul style="list-style-type: none"> <li>• the outcome of that consultation, matters resolved and unresolved; and</li> <li>• details of any disagreement remaining between the party consulted and the Applicant and how the Applicant has addressed any unresolved matters.</li> </ul>	<p>TSP advised that each approved site management plan, program &amp; strategy was prepared in consultation with relevant parties as outlined within each management plan condition.</p> <p>Details of the consultation is summarized within each document.</p>	Compliant	
<p>7. However, if the Secretary agrees, a strategy, plan or program may be prepared without consultation being undertaken with an identified party required under a condition of this consent.</p>	<p>Note: condition for information purposes.</p>	Note	
<p><b>Community Consultative Committee</b></p> <p>8. The Applicant must operate a Community Consultative Committee (CCC) for the development to the satisfaction of the Secretary. The CCC must</p>	<p>TSP advised that a Community Consultative Committee is established and meeting minutes were observed on the TSP website for Oct 2018, Feb 2019, Aug 2019, Feb 2020, Nov 2020, May 2021. It was noted that covid limitations have</p>	Compliant	<p>Suggest the CCC Meeting Minutes from 7 February 2020 be uploaded to the TSP website.</p>

Condition	Comment	Compliance Status	Observation or Recommendation
<p>be operated in general accordance with the Department's Community Consultative Committee Guidelines : State Significant Projects (2016), for the duration of quarrying operations and for at least 6 months following the completion of quarrying operations.</p> <p>Notes:</p> <ul style="list-style-type: none"> <li>• The CCC is an advisory committee.</li> <li>• In accordance with the guidelines, the Committee should comprise an independent chair and appropriate representation from the Applicant, Council and the local community.</li> </ul>	<p>impacted on the ability to have face-to-face meetings at times.</p> <p>The 2019/2020 AEMR indicates a CCC meeting was held 7 February 2020 (minutes contained in Appendix 15 of AEMR), however these minutes were not available on the website.</p>		
<p><b>REPORTING</b></p> <p><b>Incident Notification, Reporting and Response</b></p> <p>9. The Department must be notified in writing to <a href="mailto:compliance@planning.nsw.gov.au">compliance@planning.nsw.gov.au</a> immediately after the Applicant becomes aware of an incident.</p>	<p>TSP advised that exceedance incident notifications occur within the required timeframes.</p> <p>TSP provided an example of recent incident notifications provided to the Department in relation to groundwater exceedances during December 2020 (email notification acknowledgment receipt dated 23/12/2020 observed).</p>	Compliant	
<p>10. Within 7 days of the date of the incident, the Applicant must provide the Secretary and any relevant agencies with a detailed report on the incident, and such further reports as may be requested. This report must include the time and date of the incident, details of the incident, measures implemented to prevent re-occurrence and must identify any non-compliance with this consent.</p>	<p>TSP advised that it is understood that exceedances are not classified as an event causing material harm and therefore do not need to be reported to the EPA.</p> <p>It is acknowledged that the Consent definition of an 'Incident' is different in the EPL. However, in terms of the Consent it is considered an exceedance of water quality criteria which is a non-compliance with a Consent condition would be an incident, therefore the EPA would be a relevant agency and should be notified.</p> <p>It is noted that Department correspondence dated 11/10/2019 in relation to the 2018/2019 AEMR highlighted that several water quality criteria exceedances during monthly sampling</p>	Administrative non-compliance	<p>It is suggested that incident reporting conditions be reviewed against the requirements of this consent and the EPL and if necessary modified to ensure consistency of application and clear reporting requirements to relevant agencies.</p> <p>Suggest a site-specific incident reporting procedure be updated/implemented to ensure clarity on how all incident reporting conditions are addressed.</p>

Condition	Comment	Compliance Status	Observation or Recommendation
	was noted, however these were not reported to the EPA.		
<p>11. Any written requirements of the Secretary or relevant public authority (as determined by the Secretary) which may be given at any point in time, to address the cause or impact of an incident must be complied with and within any timeframe specified by the Secretary or relevant public authority.</p>	<p>TSP advised there have been no written requirements issued by the Secretary or relevant public authority within the period of this audit.</p>	Compliant	
<p>12. If statutory notification is provided to EPA as required under the POEO Act in relation to the project, such notification must also be provided to the Secretary within 24 hours after the notification was provided to EPA.</p>	<p>TSP advised that it is understood that exceedances are not classified as an event causing material harm and therefore do not need to be reported to the EPA.</p> <p>TSP advised that Section 5.7 of the POEO Act requires that pollution incidents causing or threatening <u>material harm</u> to the environment be notified to the EPA. <u>Material harm</u> has a specific definition under the Act that relates to actual or potential harm that is not trivial or results in actual or potential loss or property damage exceeding \$10,000.</p> <p>Water quality exceedances such as those that are recorded at TSP do not typically fit the definition of material harm. However, this is something that has to be considered on a case by case basis for each round of monitoring.</p> <p>TSP advised that to date, the water quality exceedances have not been classified as environmental harm and the DPIE compliance branch and EPA have not indicated that they consider these non-compliances to constitute environmental harm.</p>	Not triggered	
<p><b>Annual Review</b></p> <p>13. By the end of September each year, or other timing</p>	<p>TSP provided email correspondence as follows regarding submission of Annual Review reports</p>	Compliant	

Condition	Comment	Compliance Status	Observation or Recommendation
<p>as may be agreed by the Secretary, the Applicant must submit a report to the Department reviewing the environmental performance of the development , to the satisfaction of the Secretary. This review must:</p> <ul style="list-style-type: none"> <li>(a) describe the development (including any rehabilitation) that was carried out in the previous financial year, and the development that is proposed to be carried out over the current financial year;</li> <li>(b) include a comprehensive review of the monitoring results and complaints records of the development over the previous financial year, which includes a comparison of these results against the: <ul style="list-style-type: none"> <li>• relevant statutory requirements, limits or performance measures/criteria;</li> <li>• requirements of any plan or program required under this consent;</li> <li>• monitoring results of years prior; and</li> <li>• relevant predictions in the documents listed in condition 3 of Schedule 2;</li> </ul> </li> <li>(c) detail any non-compliance over the past financial year, and describe what actions were (or are being) taken to rectify the non-compliance and avoid reoccurrence;</li> <li>(d) evaluate and report on: <ul style="list-style-type: none"> <li>• the effectiveness of the noise and air quality management systems; and</li> <li>• compliance with the performance measures, criteria and operating conditions in this consent;</li> </ul> </li> <li>(e) identify any trends in the monitoring data over the life of the development;</li> <li>(f) identify any discrepancies between the predicted and actual impacts of the</li> </ul>	<p>to the Secretary:</p> <p>2017/2018 AEMR submitted via email dated 29/09/2018. This AEMR was reviewed in full as the conditions in this report are prior to the MOD1 coming into effect on 20 August 2018.</p> <p>2018/2019 AEMR submitted via email dated 27/09/2019. This AEMR was reviewed and subsections (a) to (g) were generally addressed. DPIE correspondence providing feedback on the AEMR dated 11/10/2019 was sited.</p> <p>2019/2020 AEMR submitted via email dated 30/9/2020. This AEMR was reviewed and subsections (a) to (g) were generally addressed. DPIE correspondence providing feedback on the AEMR dated 9/11/2020 and 4/12/2020 was sited.</p> <p>Each of the above AEMR's were provided via email to the Department, Tweed Shire Council, NSW Office of Environment and Heritage, the Department of Industry, Lands and Water and the NSW EPA. TSP advised that AEMR's are available on the TSP website and the Community Consultative Committee and any interested person upon request.</p>		

Condition	Comment	Compliance Status	Observation or Recommendation
<p>development, and analyse the potential cause of any significant discrepancies; and</p> <p>(g) describe what measures will be implemented over the current financial year to improve the environmental performance of the development.</p> <p>The Applicant must ensure that copies of the Annual Review are submitted to Council and are available to the Community Consultative Committee and any interested person upon request.</p>			



### ENVIRONMENT PROTECTION LICENCE - 11453

Condition	Comment	Compliance Status	Observation or Recommendation						
<b>1. ADMINISTRATIVE CONDITIONS</b>									
<p><b>A1 What the licence authorizes and regulates</b></p> <p>A1. This licence authorises the carrying out of the scheduled activities listed below at the premises specified in A2. The activities are listed according to their scheduled activity classification, fee-based activity classification and the scale of the operation.</p> <p>Unless otherwise further restricted by a condition of this licence, the scale at which the activity is carried out must not exceed the maximum scale specified in this condition.</p> <table border="1" data-bbox="192 911 931 1002"> <thead> <tr> <th>Scheduled Activity</th> <th>Fee Based Activity</th> <th>Scale</th> </tr> </thead> <tbody> <tr> <td>Extractive activities</td> <td>Extractive activities</td> <td>&gt; 100000 - 500000 T annually extracted or processed</td> </tr> </tbody> </table>	Scheduled Activity	Fee Based Activity	Scale	Extractive activities	Extractive activities	> 100000 - 500000 T annually extracted or processed	<p>EPL 11453 allows &gt;100,000-500,000T to be annually extracted or processed.</p> <p>TSP provided a report of loads dispatched from the site between 01/07/2020 to 30/06/2021 which indicates 214,932.29 tonnes of material was transported off-site during this period.</p> <p>The 19/20 AEMR indicates 243,577 tonnes of material was transported off-site during this period.</p> <p>The 18/19 AEMR indicates 204,023.64 tonnes of material was transported off-site during this period</p>	<b>Compliant</b>	
Scheduled Activity	Fee Based Activity	Scale							
Extractive activities	Extractive activities	> 100000 - 500000 T annually extracted or processed							
<p><b>A2 Premises or plant to which this licence</b></p> <p>A2.1 The licence applies to the following premises:</p>	<p>The IEA was undertaken at Hanson's Tweed Sand Plant located at Altona Road, Cudgen, being the premises to which EPA Licence No.11453 applies.</p>	<b>Compliant</b>							

Condition	Comment	Compliance Status	Observation or Recommendation
<p><b>Premises Details</b></p> <p>HANSON CONSTRUCTION MATERIALS PTY LTD                      ALTONA ROAD                      CUDGEN                      NSW 2487                      LOT 494 DP 720450, LOT 23 DP 1077509, LOT 22 DP 1082435</p>			
<p><b>A3 Other activities</b></p> <p>A3.1 This licence applies to all other activities carried on at the premises, including:</p> <p><b>Ancillary Activity</b></p> <p><u>Extractive Industries</u></p>	<p>TSP advised no other activities (other than extractive industries) are carried out at the premises.</p>	Compliant	
<p><b>A4 Information supplied by the EPA</b></p> <p>A4.1 Works and activities must be carried out in accordance with the proposal contained in the licence application, except as expressly provided by a condition of this licence.</p> <p>In this condition the reference to "the licence application" includes a reference to:</p> <p>a) the applications for any licences (including former pollution control approvals) which this licence</p>	<p>Hanson Heidelberg Cement Group (Hanson) have a corporate Integrated Risk Management System in place which incorporates Quality, Safety &amp; Environmental Management (including ISO14000 certification).</p> <p>There are also a number of Tweed Sand Plant specific environmental management plans &amp; rehabilitation plan which were observed during the audit. Internal audit processes are established and undertaken regularly by consulting firm Gilbert &amp; Sullivan.</p>	Compliant	

Condition	Comment	Compliance Status	Observation or Recommendation
<p>replaces under the <i>Protection of the Environment Operations (Savings and Transitional) Regulation 1998</i>; and</p> <p>b) the licence information form provided by the licensee to the EPA to assist the EPA in connection with the issuing of this licence.</p>	<p>The environmental management plans &amp; rehabilitation plan were prepared based on the supporting information and technical reports prepared for Development Application and EPA License No. 11453.</p> <p>Based on documentation observed and observations during the site inspection, the Development is being carried out generally in accordance with the proposal contained in the licence application.</p>		
<b>2. DISCHARGES TO AIR AND WATER AND APPLICATION TO LAND</b>			
<p><b>P1 Location of monitoring/Discharge points and areas</b></p> <p>P1.1 The following utilisation areas referred to in the table below are identified in this licence for the purposes of the monitoring and/or the setting of limits for any application of solids or liquids to the utilisation area.</p>	<p>Note for information purposes</p> <p>TSP advised monitoring is conducted in accordance with this condition, noting that no discharge has occurred from the dredge point (Discharge Monitoring Point).</p>	Note	
<p>P1.2 The following points referred to in the table are identified in this licence for the purposes of the monitoring and/or the setting of limits for discharges of pollutants to water from the point.</p>	<p>“Drawing No.12034.003 Annual Review Tweed Sand Plant, Cudgen NSW September 2019 G&amp;S” was observed and included the identified monitoring points and locations.</p>	Compliant	

Condition				Comment	Compliance Status	Observation or Recommendation
<i>Water and land</i>						
EPA Identification no.	Type of Monitoring Point	Type of Discharge Point	Location Description			
2	Discharge Monitoring Point Groundwater Monitoring - 8A	Discharge Monitoring Point	Pond <u>South West</u> corner			
3	Groundwater Monitoring - 8B		<u>South West</u> corner of the site (bore depth 6m below Near Surface Level). Refer Drawing No. 12034.003 Annual Review Tweed Sand Plant, Cudgen New South Wales, September 2019, <u>Gilbert</u> and <u>Sutherland</u>			
4	Groundwater Monitoring - 2A		<u>South West</u> corner of the Phase 2 extraction area (total depth 20m below Near Surface Level). Refer Drawing No. 12034.003 Annual Review Tweed Sand Plant, Cudgen New South Wales, September 2019, <u>Gilbert</u> and <u>Sutherland</u> .			
5	Groundwater Monitoring - 2B		<u>South West</u> corner of the Phase 2 extraction area (total depth 5m below Near Surface Level). Refer Drawing No. 12034.003 Annual Review Tweed Sand Plant, Cudgen New South Wales, September 2019, <u>Gilbert</u> and <u>Sutherland</u> .			
6	Groundwater Monitoring - MB7		Midway along the eastern boundary of the site on the adjacent property (total depth 6m below Near Surface Level). Refer Drawing No. 12034.003 Annual Review Tweed Sand Plant, Cudgen New South Wales, September 2019, <u>Gilbert</u> and <u>Sutherland</u> .			
7	Groundwater Monitoring - 11A		<u>North East</u> corner of the site (bore depth 6m below Near Surface Level). Refer Drawing No. 12034.003 Annual Review Tweed Sand Plant, Cudgen New South Wales, September 2019, <u>Gilbert</u> and <u>Sutherland</u> .			
8	Groundwater Monitoring - 11B		<u>North East</u> corner of the site (bore depth 6m below Near Surface Level). Refer Drawing No. 12034.003 Annual Review Tweed Sand Plant, Cudgen New South Wales, September 2019, <u>Gilbert</u> and <u>Sutherland</u> .			
<b>3 LIMIT CONDITIONS</b>						

Condition	Comment	Compliance Status	Observation or Recommendation
<p><b>L1 Pollution of waters</b></p> <p>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.</p>	<p>Hanson Heidelberg Cement Group (Hanson) have a corporate Integrated Risk Management System in place which incorporates Quality, Safety &amp; Environmental Management (including ISO14000 certification).</p> <p>There are also a number of Tweed Sand Plant specific environmental management plans &amp; rehabilitation plan which were observed during the audit. Internal audit processes are established and undertaken regularly by consulting firm Gilbert &amp; Sullivan.</p> <p>This IRMS includes an Environment Policy, Energy Management Policy and Water Management Policy which are supported by a comprehensive system based on risk assessment, operational procedures, training and review processes.</p> <p>Hanson's HR One Team System maintains staff training records and includes e-learning modules on environmental topics including an Environmental Refresher and Use of Spill Kits etc.</p>	Compliant	
<p><b>L2 Concentration Limits</b></p> <p>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.</p>	<p>This condition refers to criteria in relation to Point 1 being the Discharge Monitoring Point. There is no other Monitoring Point tables containing criteria in this part of the EPL.</p> <p>TSP advised there have been no discharges from the site, therefore no exceedances have occurred.</p>	Compliant	
<p>L2.2 Where a pH quality limit is specified in the table, the specified percentage of samples must be within the specified ranges.</p>	<p>Note for information purposes</p>	Note	

Condition	Comment	Compliance Status	Observation or Recommendation																								
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.	Note for information purposes	Note																									
L2.4 Water and/or Land Concentration Limits.  POINT 1 <table border="1" data-bbox="286 576 943 826"> <thead> <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> </thead> <tbody> <tr> <td>Oil and Grease</td> <td>Visible</td> <td></td> <td></td> <td></td> <td>nil</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> </tbody> </table>	Pollutant	Units of Measure	50 Percentile concentration limit	90 Percentile concentration limit	3DGM concentration limit	100 percentile concentration limit	Oil and Grease	Visible				nil	pH	pH				6.5 - 8.5	Total suspended solids	milligrams per litre				50	Note for information purposes.  TSP advised that no discharge has occurred from the dredge point (Discharge Monitoring Point) during the period of the audit.	Note	
Pollutant	Units of Measure	50 Percentile concentration limit	90 Percentile concentration limit	3DGM concentration limit	100 percentile concentration limit																						
Oil and Grease	Visible				nil																						
pH	pH				6.5 - 8.5																						
Total suspended solids	milligrams per litre				50																						
L2.5 The concentration limits in the above table do not apply to any discharge from the discharge points identified in this licence solely arising from rainfall exceeding the 90th% volume of 82.5 mm in total falling over any consecutive five day period.	Note for information purposes.	Note																									
L2.6 If the licensee uses turbidity (NTU) in place of TSS to determine compliance with Condition L2.4 the licensee must develop a statistical correlation which identifies the relationship between NTU and TSS for water quality in the sediment basin/s in order to determine the NTU equivalent of 50 mg/L TSS before its use.	Note for information purposes.  TSP advised both turbidity (NTU) and TSS would be monitored if required and no statistical correlation method has been approved to date.	Note																									
L2.7 The licensee must provide the EPA with a copy of the statistical correlation assessment	TSP advised both turbidity (NTU) and TSS would be monitored if required and no statistical correlation method has been	Not triggered																									

Condition	Comment	Compliance Status	Observation or Recommendation
methodology and results before using NTU in place of TSS.	approved to date.		
L2.8 The licensee must develop and implement a method to enable the ongoing verification of the relationship between NTU and TSS.	TSP advised both turbidity (NTU) and TSS would be monitored if required and no statistical correlation method has been approved to date.	Not triggered	
L2.9 The licensee must provide the EPA with any amendments the licensee makes to the statistical correlation as a result of the ongoing verification required by Condition L2.8 before using the revised statistical correlation.	TSP advised both turbidity (NTU) and TSS would be monitored if required and no statistical correlation method has been approved to date.	Not triggered	
L2.10 Pumping or other controlled discharges from any sediment basins must meet the following 100th% limits: <ul style="list-style-type: none"> <li>total suspended solids concentration of 50mg/L;</li> <li>pH range of between 6.5 and 8.5; and</li> <li>no visible oils and greases.</li> </ul>	TSP advised that no pumping or other controlled discharges have occurred during the period of the audit.	Not triggered	
<b>L3 Waste</b> L3.1 The licensee must not cause, permit or allow any waste generated outside the premises to be received at the premises for storage, treatment, processing, reprocessing or disposal or any waste generated at the premises to be disposed of at the premises, except as expressly permitted by the licence.	TSP advised that no waste generated outside the premises is permitted on-site and no waste generated on-site is disposed of at the premises.	Compliant	
<b>L4 Noise Limits</b> L4.1 Noise from the premises must not exceed an LAeq (15minute) noise emission criterion of 40dB(A), except as expressly provided by this licence.	The ATP Noise Monitoring Report June 2021 and ATP Noise Assessment Report Annual Review 2020 indicate that noise measurements were carried out at 543 Cudgen Rd, Cudgen and 535 Cudgen Rd, Cudgen and did not achieve compliance with the criteria in Condition L4.1.  It is noted that both of these premises have written agreements in place for	Not Verified	Noise monitoring is to be undertaken at premises not subject to an agreement.  Implement monitoring requirements as outlined in EPL 11453 until such time as an amendment to this condition is approved or an amendment to the agreement is

Condition	Comment	Compliance Status	Observation or Recommendation
	<p>exceedance of noise criteria, however the agreements do not reference the EPL 11453 conditions only MOD1 conditions.</p>		<p>undertaken.</p>
<p>L4.2 Noise from the premises is to be measured at the most affected noise sensitive receiver who has not given written permission for an exceedance of condition L4.1 to determine compliance with this condition.</p>	<p>The ATP Noise Monitoring Report June 2021 and ATP Noise Assessment Report Annual Review 2020 indicate that noise measurements were carried out at 543 Cudgen Rd, Cudgen and 535 Cudgen Rd, Cudgen and did not achieve compliance with the criteria in Condition L4.1. It is noted that both of these premises have written agreements in place for exceedance of noise criteria, however the agreements do not reference the EPL 11453 conditions only MOD1 conditions.</p> <p>Therefore, no measurements have been undertaken at a premises not subject to a written agreement.</p>	<p>Non-Compliant</p>	<p>Suggest noise monitoring be undertaken at premises that are not subject to a written permission for an exceedance of condition L4.1.</p>
<p>L4.3 The noise emission limits identified in L4.1 apply for prevailing meteorological conditions (winds up to 3m/s), except under conditions of temperature inversions. Noise impacts that may be enhanced by temperature inversions must be addressed by:</p> <ul style="list-style-type: none"> <li>a) Documenting noise complaints received to identify any higher level of impacts or patterns of temperature inversions.</li> <li>b) Where levels of noise complaints indicate a higher level of impact then actions to quantify and ameliorate any enhanced impacts under temperature inversions conditions should be developed and implemented.</li> </ul>	<p>Note for information purposes.</p> <p>TSP advised that no noise complaints have been received during the period of the audit as such temperature inversion matters have not been triggered. Complaint registers are available on the TSP website indicate no complaints were received between 2018 to 2020.</p>	<p>Note</p>	



Condition	Comment	Compliance Status	Observation or Recommendation
<p>Note: Noise sensitive locations means buildings used as a residence, hospital, school, childcare centre, places of public worship and nursing homes. A noise sensitive location includes the land within 30m of the building.</p>			
<p><b>L5 Hours of operation</b></p> <p>L5.1 Quarrying Operations must only be carried out between 0700 and 1700 hours Monday to Friday, and 0700 and 1600 hours Saturday, and at no time on Sundays and Public Holidays. Loading and dispatch of trucks must only be carried out between 0700 and 1700 hours Monday to Friday, and 0700 and 1200 hours Saturday, and at no time on Sundays and Public Holidays. Maintenance may be conducted at any time, provided these activities are not audible at any privately-owned residence.</p>	<p>TSP provided a report of loads dispatched from the site between 01/07/2020 to 30/06/2021. An exceedance was identified on 21/11/2020 where the weighbridge recorded a truck movement at 12:27:45pm (Saturday). TSP advised the truck was moving overburden on-site and went over the weighbridge but did not go offsite. The weighbridge has been updated to not allow tickets to be issued/trucks to be dispatched outside of permitted operating hours.</p> <p>The 19/20 AEMR indicates a load was dispatched at 5:03:29pm on 2 Dec 2019. This was reported and no further action was requested by the Department.</p> <p>Hanson have a Drivers Code of Conduct in place which drivers are trained in and then required to carry a signed copy confirming understanding of requirements. This covers site specific requirements including operating hours, dispatch limitations, routes, behavioural expectations.</p>	<p>Non-Compliant</p>	<p>Continued implementation and monitoring of weighbridge systems to control dispatch of laden trucks from the site.</p>
<p>L5.2 This condition does not apply to the delivery of material outside the hours of operation permitted by condition L5.1, if that delivery is required by police or other authorities for safety reasons; and/or the operation or personnel or equipment are endangered. In such circumstances, prior notification must be provided to the EPA and</p>	<p>TSP advised that no activities of this nature have occurred during the audit period.</p>	<p>Compliant</p>	

Condition	Comment	Compliance Status	Observation or Recommendation
<p>affected residents as soon as possible or within a reasonable period in the case of emergency.</p>			
<p><b>4 Operating Conditions</b></p>			
<p><b>01 Activities must be carried out in a competent manner</b></p> <p>0 1.1 Licensed activities must be carried out in a competent manner.                      This includes:</p> <ul style="list-style-type: none"> <li>a) the processing, handling, movement and storage of materials and substances used to carry out the activity; and</li> <li>b) the treatment, storage, processing, reprocessing, transport and disposal of waste generated by the activity.</li> </ul>	<p>Hanson Heidelberg Cement Group (Hanson) have a corporate Integrated Risk Management System in place which incorporates Quality, Safety &amp; Environmental Management (including ISO14000 certification). This IRMS includes an Environment Policy, Energy Management Policy and Water Management Policy which are supported by a comprehensive system based on risk assessment, operational procedures, training and review processes.</p> <p>Observations during the site visit indicated licensed activities including those outlined in subsections (a) and (b) were carried out in a competent manner.</p>	<p>Compliant</p>	
<p><b>02 Maintenance of plant and equipment</b></p> <p>0 2.1 All plant and equipment installed at the premises or used in connection with the licensed activity:</p> <ul style="list-style-type: none"> <li>(a) must be maintained in a proper and efficient condition; and</li> <li>(b) must be operated in a proper and efficient manner.</li> </ul>	<p>TSP advised all plant and equipment is listed on an Equipment Asset Register. Fixed assets are audited every 3 years. Automatic prescheduling of maintenance occurs via the SAP Planned Maintenance Program. Daily pre-start checks are undertaken on plant and equipment and records dated 07/06/2021 and 14/06/2021 were observed.</p> <p>Competency statements observed for Hanson staff including Justin Munro, Charles Payne and Lloyd Wright. Hanson's HR One Team System maintains staff training records and includes e-learning modules on environmental topics including an Environmental Refresher and Use of Spill Kits etc.</p>	<p>Compliant</p>	

Condition	Comment	Compliance Status	Observation or Recommendation
	CAMS System in place to record contractor inductions, licences and training records.		
<p><b>03 Dust</b></p> <p>0 3.1 Activities occurring in or on the premises must be carried out in a manner that will minimise the generation, or emission from the premises, of wind-blown or traffic generated dust.</p>	<p>TSP have an approved Air Quality Management Plan in place and advised of a range of dust control measures implemented on site including:</p> <ul style="list-style-type: none"> <li>• Speed limit on-site is 15km/hr (reduced from 30km/hr)</li> <li>• Water sprays on stockpiles and unsealed roads installed and observed. Can be remotely activated from loader</li> <li>• Stripped area is minimised, 0.5m topsoil removed, area stripped is reported corporately</li> <li>• Shaker grid installed</li> <li>• Vegetation screen in place.</li> </ul> <p>Dust control measures were observed to be in place and no dust nuisance was observed during the site visit.</p>	<b>Compliant</b>	
<p>03.2 Trucks entering and leaving the premises that are carrying loads must be covered at all times, except during loading and unloading.</p>	<p>Hanson have a Drivers Code of Conduct in place which drivers are trained in and then required to carry a signed copy confirming understanding of requirements. This covers site specific requirements including operating hours, dispatch limitations, routes, covering of loads and behavioural expectations. Code of Conduct Oct 2020 observed.</p> <p>Signage was also observed in place at the weighbridge indicating all loads must be secured and covered before leaving the site.</p>	<b>Compliant</b>	
<p><b>04 Process and management</b></p>	<p>TSP advised that no activities of this nature</p>	<b>Not verified</b>	<p>Suggest reviewing site activities and the Erosion and Sediment Control</p>

Condition	Comment	Compliance Status	Observation or Recommendation
04.1 Sediment basins shall be treated, if required, to reduce the Total Suspended Solids level to the licenced concentration limit before being discharged to the environment. Treatment can be with gypsum or any other material that has been approved by the EPA.	have occurred during the audit period.  TSP advised that the site is elevated compared to surrounding properties and is graded to fall to the lake. TSP's Erosion and Sediment Control Plan in the Soil & Water Management Plan does not include reference to sediment basins.		Plan to ensure the need for sediment basins is still not required. If not required consideration be given to amending this condition to remove reference to sediment basins operation on-site.
0 4.2 The licensee must maximise the exclusion and diversion around the site of surface run-on waters.	TSP advised that the site is elevated compared to surrounding properties and is graded to fall to the lake. External drains are locked at the Tweed River via on-way valve gates.	Not verified	Refer to Condition O4.1.
04.3 The licensee must maximise the diversion of stormwater runoff containing suspended solids to sediment basins installed on the premises.	TSP advised that the site is elevated compared to surrounding properties and is graded to fall to the lake.  TSP's Erosion and Sediment Control Plan in the Soil & Water Management Plan does not include reference to sediment basins.	Not verified	Refer to Condition O4.1.
04.4 The licensee must ensure that sampling point(s) for water discharged from the sediment basin(s) are provided and maintained in an appropriate condition to permit: <ul style="list-style-type: none"> <li>a) the clear identification of each sediment basin and discharge point;</li> <li>b) the collection of representative samples of the water discharged from the sediment basin(s); and</li> <li>c) access to the sampling point(s) at all times by an authorised officer of the EPA.</li> </ul>	TSP advised that the site is elevated compared to surrounding properties and is graded to fall to the lake. TSP's Erosion and Sediment Control Plan in the Soil & Water Management Plan does not include reference to sediment basins.	Not verified	Refer to Condition O4.1.
04.5 Each sedimentation basin must have a marker (the "sedimentation basin marker") that identifies the upper level of the sediment storage zone.	TSP advised that the site is elevated compared to surrounding properties and is graded to fall to the lake.	Not verified	Refer to Condition O4.1.

Condition	Comment	Compliance Status	Observation or Recommendation
	TSP's Erosion and Sediment Control Plan in the Soil & Water Management Plan does not include reference to sediment basins.		
04.6 The level of sediment in any sedimentation basin on the premises must be maintained below the upper level indicated by the sedimentation marker.	<p>TSP advised that the site is elevated compared to surrounding properties and is graded to fall to the lake.</p> <p>TSP's Erosion and Sediment Control Plan in the Soil &amp; Water Management Plan does not include reference to sediment basins.</p>	Not verified	Refer to Condition O4.1.
04.7 All liquid chemicals, fuels and oils must be stored in tanks or containers inside suitable bund(s). Bunds are to be designed, constructed and maintained in accordance with AS1940-2004 Storage and Handling of Flammable and Combustible Liquids	<p>A Fuelco self-bunded 11,000L diesel tank was observed on site. The Fuelco Klassic – LTKL 12 self-bunded tank product specification indicates compliance with AS1940, AS1692, AS1657 and UL142.</p> <p>Fresh and waste oil and grease is also stored on site in bunded storage areas. Fire extinguisher provided. Spill kit available on-site – 2 in workshop, 1 on barge and 1 at fuel tank.</p> <p>Please note, a detailed compliance audit against the AS1940 was not undertaken as part of this audit.</p>	Not Verified	
<p><b>05 Other operating conditions</b></p> <p>05.1 The licensee must assess and manage any acid sulfate soil (ASS) and potential acid sulfate soil (PASS) in accordance with the 1998 Acid Sulfate Soils Manual published by the NSW Acid Sulfate Soil Management Advisory Committee (ASSMAC).</p>	<p>The Soil and Water Management Plan, May 2019 prepared by Gilbert + Sutherland was sited and correspondence observed indicating it was approved by the Secretary on 11 April 2019 subject to an amendment around exceedance reporting.</p> <p>Section 6 of the approved SWMP discusses potential for ASS disturbance and outlines the adopted approach at TSP is to:</p>	Compliant	

Condition	Comment	Compliance Status	Observation or Recommendation
	<ul style="list-style-type: none"> <li>• separate PASS material from the sand product;</li> <li>• avoid oxidation of PASS; and</li> <li>• permanently reinter PASS in a stable environment, to manage the risk of oxidation.</li> </ul> <p>This is achieved through the use of a hydrocyclone at the wash plant and release of fines into the lake with the returns pipe set at 3m below surface level. Hydrographic survey shows depth greater than 8m is achieved.</p> <p>ASS management &amp; monitoring is undertaken in accordance with the approved SWMP. Section 7.13.3 outlines ASS management during sand extraction and Section 7.13.4 outlines ASS management during removal of overburden.</p>		
<b>5 Monitoring and Recording Conditions</b>			
<p><b>M1 Monitoring records</b></p> <p>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.</p>	<p>Note for information purposes.</p>	<p>Note</p>	
<p>M1.2 All records required to be kept by this licence must be:</p> <ol style="list-style-type: none"> <li>a) in a legible form, or in a form that can readily be reduced to a legible form;</li> <li>b) kept for at least 4 years after the monitoring or event to which they relate took place; and</li> </ol>	<p>Records observed during the site visit were legible and available in the Environmental Risk Folder. TSP advised records will be kept for the required time period and are ultimately archived. All records will be made available to any authorised officer of</p>	<p>Compliant</p>	

Condition	Comment	Compliance Status	Observation or Recommendation																
c) produced in a legible form to any authorised officer of the EPA who asks to see them.	the EPA if requested.																		
<p>M1.3 The following records must be kept in respect of any samples required to be collected for the purposes of this licence:</p> <ul style="list-style-type: none"> <li>a) the date(s) on which the sample was taken;</li> <li>b) the time(s) at which the sample was collected;</li> <li>c) the point at which the sample was taken; and</li> <li>d) the name of the person who collected the sample.</li> </ul>	<p>The TSP Surface and Groundwater Quality Report (Biannual) December 2020 was reviewed and Appendix 1 – In situ and laboratory certificates were observed. Groundwater Sampling Logs contained the information required in a), c) and d) and In Situ &amp; In House Water Quality Analysis forms observed included information required in subsection b).</p>	Compliant																	
<p><b>M2 Requirement to monitor concentration of pollutants discharged</b></p> <p>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:</p>	<p>Note for information purposes.</p>	Note																	
<p>M2.2 Water and/ or Land Monitoring Requirements</p> <p>POINT 1</p> <table border="1" data-bbox="210 1125 925 1217"> <thead> <tr> <th>Pollutant</th> <th>Units of measure</th> <th>Frequency</th> <th>Sampling Method</th> </tr> </thead> <tbody> <tr> <td>Oil and Grease</td> <td>Visible</td> <td><a href="#">Special Frequency 1</a></td> <td>Visual Inspection</td> </tr> <tr> <td>pH</td> <td>pH</td> <td>Special Frequency 1</td> <td>Probe</td> </tr> <tr> <td>TSS</td> <td>milligrams per litre</td> <td>Special Frequency 1</td> <td>Grab sample</td> </tr> </tbody> </table>	Pollutant	Units of measure	Frequency	Sampling Method	Oil and Grease	Visible	<a href="#">Special Frequency 1</a>	Visual Inspection	pH	pH	Special Frequency 1	Probe	TSS	milligrams per litre	Special Frequency 1	Grab sample	<p>TSP advised that no discharge has occurred from the dredge point (Discharge Monitoring Point 1) during the period of the audit.</p> <p>The TSP Surface and Groundwater Quality Report (Biannual) December 2020 was reviewed in relation to groundwater monitoring and observed to reflect the monitoring requirements. It is noted that sampling at additional monitoring points is undertaken in accordance with the approved Soil and Water Management</p>	Compliant	
Pollutant	Units of measure	Frequency	Sampling Method																
Oil and Grease	Visible	<a href="#">Special Frequency 1</a>	Visual Inspection																
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Condition	Comment	Compliance Status	Observation or Recommendation																																
<p>POINT 2,3,4,5,6,7,8</p> <table border="1" data-bbox="212 352 929 550"> <thead> <tr> <th>Pollutant</th> <th>Units of measure</th> <th>Frequency</th> <th>Sampling Method</th> </tr> </thead> <tbody> <tr> <td>Ammonia</td> <td>milligrams per litre</td> <td>Yearly</td> <td>Grab sample</td> </tr> <tr> <td>Chloride</td> <td>milligrams per litre</td> <td>Yearly</td> <td>Grab sample</td> </tr> <tr> <td>Electrical conductivity</td> <td>microsiemens per centimetre</td> <td>Yearly</td> <td>Grab sample</td> </tr> <tr> <td>Oil and Grease</td> <td>Visible</td> <td>Yearly</td> <td>Grab sample</td> </tr> <tr> <td>pH</td> <td>pH</td> <td>Yearly</td> <td>Grab sample</td> </tr> <tr> <td>Standing Water Level</td> <td>metres, (Australian Height Datum)</td> <td>Yearly</td> <td>No method specified</td> </tr> <tr> <td>Sulfate</td> <td>milligrams per litre</td> <td>Yearly</td> <td>Grab sample</td> </tr> </tbody> </table> <p><i>Note: Special Frequency 1 means sampling once during each discharge event arising from actively emptying the pond or from rainfall less than 82.5mm falling in total over a period of up to five days duration. Measurement of pH is to be taken by probe at the time of sampling.</i></p>	Pollutant	Units of measure	Frequency	Sampling Method	Ammonia	milligrams per litre	Yearly	Grab sample	Chloride	milligrams per litre	Yearly	Grab sample	Electrical conductivity	microsiemens per centimetre	Yearly	Grab sample	Oil and Grease	Visible	Yearly	Grab sample	pH	pH	Yearly	Grab sample	Standing Water Level	metres, (Australian Height Datum)	Yearly	No method specified	Sulfate	milligrams per litre	Yearly	Grab sample	<p>Plan.</p>		
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<p><b>M3 Testing methods – concentration limits</b></p> <p>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.</p>	<p>TSP advised that testing methods implemented comply with the requirements in the Approved Methods Publication.</p>	Compliant																																	
<p><b>M4 Environmental monitoring</b></p> <p>M4.1 The licensee is required to install and maintain a rainfall depth measuring device.</p>	<p>TSP advised that a Davis WeatherLink System is the standard meteorological monitoring system used at Hanson sites. This system measures hourly and total rainfall per day.</p> <p>TSP staff have access to data in the office and available on their phones via an app. Weather monitoring station observed on-site.</p>	Compliant																																	



Condition	Comment	Compliance Status	Observation or Recommendation
M4.2 Rainfall at the premises must be measured and recorded in millimetres per 24 hour period, at the same time each day.	TSP advised that a Davis WeatherLink System is the standard meteorological monitoring system used at Hanson sites. This system measures hourly and total rainfall per day in millimeters.	Compliant	
M4.3 The rainfall monitoring data collected in compliance with licence condition M4.2 can be used to determine compliance with licence condition L2.4.	The TSP Surface and Groundwater Quality Report (Biannual) December 2020 was reviewed and Section 2.1 indicates reference to the BOM rainfall recording station is at Kingscliff (Marine Parade), approximately 3km to the east of the site. Table. No reference appears to be made to the site weather rainfall data in the report however it is available if required and condition M4.3 doesn't make it mandatory to use it.	Compliant	
<p><b>MS Recording of pollution complaints</b></p> <p>M5.1 The licensee must keep a legible record of all complaints made to the licensee or any employee or agent of the licensee in relation to pollution arising from any activity to which this licence applies.</p>	<p>TSP advised no complaints have been received during the audit period. Complaint registers are available on the TSP website indicate no complaints were received between 2018 to 2020.</p> <p>TSP advised pollution complaint records would be kept in the corporate IRIS-Integrated Risk Information System and a notation kept in site diary.</p>	Not triggered	
<p>M5.2 The record must include details of the following:</p> <ul style="list-style-type: none"> <li>a) the date and time of the complaint;</li> <li>b) the method by which the complaint was made;</li> <li>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;</li> <li>d) the nature of the complaint;</li> <li>e) the action taken by the licensee in relation to the complaint, including any</li> </ul>	<p>TSP advised no complaints have been received during the audit period. Complaint registers are available on the TSP website indicate no complaints were received between 2018 to 2020. TSP advised the required details would be recorded if a complaint were to be received and an example of the template was observed to contain the required information.</p>	Not triggered	

Condition	Comment	Compliance Status	Observation or Recommendation
follow-up contact with the complainant; and f) if no action was taken by the licensee, the reasons why no action was taken.			
M5.3 The record of a complaint must be kept for at least 4 years after the complaint was made.	TSP advised complaint records will be kept for the required time period and all records are archived.	Not triggered	
M5.4 The record must be produced to any authorised officer of the EPA who asks to see them.	TSP advised records will be made available to any authorised officer of the EPA if requested.	Not triggered	
<b>M6 Telephone complaints line</b> M6.1 The licensee must operate during its operating hours a telephone complaints line for the purpose of receiving any complaints from members of the public in relation to activities conducted at the premises or by the vehicle or mobile plant, unless otherwise specified in the licence.	TSP advised that site Contact Details including a phone landline and the Site Manager's mobile phone number is available on the TSP website.  Signage was observed at the site entrance indicating "For all enquiries and complaints please contact Sand Plant Manager (02) 6674 2916."	Compliant	
M6.2 The licensee must notify the public of the complaints line telephone number and the fact that it is a complaints line so that the impacted community knows how to make a complaint.	TSP advised that site Contact Details including a phone landline and the Site Manager's mobile phone number is available on the TSP website.  Signage was observed at the site entrance indicating "For all enquiries and complaints please contact Sand Plant Manager (02) 6674 2916."	Compliant	
M6.3 The preceding two conditions do not apply until 3 months after: the date of the issue of this licence.	Note for information purposes.	Note	
<b>M7 Other monitoring and recording conditions</b> M7.1 For the purposes of monitoring for compliance with the noise limit conditions of this licence	The Annual Noise Review Report June 2021 includes consideration of these matters.	Compliant	

Condition	Comment	Compliance Status	Observation or Recommendation
(condition L4) noise emitted from the premises must be measured or computed at 30 metres from the nearest residential dwelling/s over a period of 15 minutes using the "FAST" response on the sound level meter. A modifying factor correction must be applied for tonal, impulsive, or intermittent noise in accordance with the document NSW Industrial Noise Policy (NSW EPA, January 2000).			
<b>6 Reporting Conditions</b>			
<p><b>R1 Annual return documents</b></p> <p>R1.1 The licensee must complete and supply to the EPA an Annual Return in the approved form comprising:</p> <ol style="list-style-type: none"> <li>1. a Statement of Compliance,</li> <li>2. a Monitoring and Complaints Summary,</li> <li>3. a Statement of Compliance - Licence Conditions,</li> <li>4. a Statement of Compliance - Load based Fee,</li> <li>5. a Statement of Compliance - Requirement to Prepare Pollution Incident Response Management Plan,</li> <li>6. a Statement of Compliance - Requirement to Publish Pollution Monitoring Data; and</li> <li>7. a Statement of Compliance - Environmental Management Systems and Practices.</li> </ol> <p>At the end of each reporting period, the EPA will provide to the licensee notification that the Annual Return is due.</p>	<p>2017/2018 Annual Return was reviewed and subsections (1) to (7) were addressed.</p> <p>2018/2019 Annual Return was reviewed and subsections (1) to (7) were addressed.</p> <p>2019/2020 Annual Return was reviewed and subsections (1) to (7) were addressed.</p>	Compliant	
<p>R1.2 An Annual Return must be prepared in respect of each reporting period, except as provided below.</p>	<p>TSP have prepared an Annual Return for each reporting period during the scope of the audit. 2017/2018 Annual Return, 2018/2019 Annual Return and 2019/2020</p>	Compliant	

Condition	Comment	Compliance Status	Observation or Recommendation
	Annual Return were observed.		
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.	TSP advised there has been no transfer of licence during the audit period.	Not triggered	
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.	TSP advised there has been no surrender or revokement of licence during the audit period.	Not triggered	
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').	TSP advised the 2019/2020 Annual Return was supplied to the EPA via eConnect. TSP advised previous Annual Returns were supplied via registered post.	Compliant	
R1.6 The licensee must retain a copy of the Annual Return supplied to the EPA for a period of at least 4 years after the Annual Return was due to be supplied to the EPA.	TSP advised Annual Returns will be retained for at least 4 years after the Annual Return was due to the EPA. 2017/2018 Annual Return, 2018/2019	Compliant	

Condition	Comment	Compliance Status	Observation or Recommendation
	Annual Return and 2019/2020 Annual Return were observed.		
<p>R1.7 Within the Annual Return, the Statements of Compliance must be certified and the Monitoring and Complaints Summary must be signed by:</p> <ul style="list-style-type: none"> <li>a) the licence holder; or</li> <li>b) by a person approved in writing by the EPA to sign on behalf of the licence holder.</li> </ul> <p>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.</p> <p>Note: An application to transfer a licence must be made in the approved form for this purpose.</p>	2017/2018 Annual Return, 2018/2019 Annual Return and 2019/2020 Annual Return were observed and contained a signed Statements of Compliance.	Compliant	
<p>R1.8 The licensee must also include the following information with the Annual Return:</p> <ul style="list-style-type: none"> <li>• A statement detailing the total volume of material extracted from the quarry for the reporting period; and</li> <li>• The total volume of extracted material transported from the premises for the reporting period.</li> </ul>	<p>TSP advised this information is contained within the EPA 2017/2018 Annual Return and 2018/2019 Annual Return, however there was no provision for this information in the 2018/2019 Annual Return.</p> <p>This information is included in the Annual Review which is sent to DPIE, EPA and TSC each year.</p>	Compliant	
<p><b>R2 Notification of environmental harm</b></p> <p>R2.1 Notifications must be made by telephoning the Environment Line service on 131 555.</p>	TSP advised that there have been no notifications of environmental harm within the audit period.	Not triggered	
<p>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.</p>	TSP advised that there have been no notifications of environmental harm within the audit period. TSP noted that the notification is required for incidents that	Not triggered	

Condition	Comment	Compliance Status	Observation or Recommendation
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.	cause or threaten material harm to the environment.		
<b>R3 Written report</b>  R3.1 Where an authorised officer of the EPA suspects on reasonable grounds that: <ul style="list-style-type: none"> <li>a) where this licence applies to premises, an event has occurred at the premises; or</li> <li>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.</li> </ul>	TSP advised that there have been no requests of this nature within the audit period.	Not triggered	
R3.2 The licensee must make all reasonable inquiries in relation to the event and supply the report to the EPA within such time as may be specified in the request.	TSP advised that there have been no requests of this nature within the audit period.	Not triggered	
R3.3 The request may require a report which includes any or all of the following information: <ul style="list-style-type: none"> <li>a) the cause, time and duration of the event;</li> <li>b) the type, volume and concentration of every pollutant discharged as a result of the event;</li> </ul>	TSP advised that there have been no requests of this nature within the audit period.	Not triggered	

Condition	Comment	Compliance Status	Observation or Recommendation
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.			
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.	TSP advised that there have been no requests of this nature within the audit period.	Not triggered	
<b>7 GENERAL CONDITIONS</b>			
<b>G1 Copy of licence kept at the premise or plant</b>  G1.1 A copy of this licence must be kept at the premises to which the licence applies.	TSP advised that an electronic copy is available via the website. A hardcopy of the licence is also available in the site office and was observed on-site during the audit.	Compliant	
G1.2 The licence must be produced to any authorised officer of the EPA who asks to see it.	TSP advised the licence will be made available to any authorised officer of the EPA if requested.	Compliant	

Condition	Comment	Compliance Status	Observation or Recommendation
G1.3 The licence must be available for inspection by any employee or agent of the licensee working at the premises.	TSP advised that an electronic copy is available via the website. A hardcopy of the licence is also available in the site office and was observed on-site during the audit.	Compliant	



**ATTACHMENT A:**

Secretary Endorsement of Audit Team



Mr Murray Graham  
Hanson Tweed Sand Plant  
PO Box 1636  
Toombul Queensland 4012

25/05/2021

Dear Mr Graham

**Tweed Sand Quarry - IEA Request for Auditor Approval (DA152-6-2005)**

I refer to your request (DA152-6-2005-PA-9) for the Secretary's approval of suitably qualified persons to prepare the Independent Environmental Audit (IEA) for the Tweed Sand Quarry - IEA Request for Auditor Approval (DA152-6-2005).

The Department has reviewed the nominations and information you have provided and is satisfied that these experts are suitably qualified and experienced. In accordance with Condition 14, Schedule 5 of DA152-6-2005 (the 'Consent') and the Independent Audit Post Approval Requirements (May 2020), the Secretary has agreed to the following audit team:

- Mr Mark Rigby, Mark Rigby & Associates Pty Ltd; and
- Ms Allison Reiser, Mark Rigby & Associates Pty Ltd.

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

The Department has recently released the Independent Audit Post Approval Requirements (PARs) document, which more recent Development Consents/Approvals issued by the Department must now comply with. The PARs can be found at:

<https://www.planning.nsw.gov.au/Assess-and-Regulate/About-compliance/Inspections-and-enforcements/Independent-audit-post-approval-requirements>

Please note that as your Consent was already in existence when the PAR was released, you may elect to voluntarily comply with the PARs but compliance with the Conditions of Consent takes priority. While not a requirement under your Consent, the PARs may assist you with developing your Independent Audits.

As per the PARs, the approved auditor must consult with the Department, who may request that other parties or agencies are consulted, to obtain their input into the scope of the audit.

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

Notwithstanding the agreement for the above listed audit team for this Project, each respective project approval or consent requires a request for the agreement to the auditor or audit team be submitted to the Department, for consideration of the Secretary. Each request is reviewed and

depending on the complexity of future projects, the suitability of a proposed auditor or audit team will be considered.

If you wish to discuss the matter further, please contact Angie Hollister, Senior Compliance Officer on 02 6670 8654.

Yours sincerely

A handwritten signature in black ink, appearing to read 'Ahollister', written in a cursive style.

angie hollister  
n/a  
Compliance

Angie Hollister  
A/Compliance Team Leader  
Compliance

As nominee of the Planning Secretary



**ATTACHMENT B:**

MRA Environmental Capability Statement

## CAPABILITY OVERVIEW STATEMENT

Mark Rigby & Associates Pty Ltd trading as MRA Environmental is a well-respected and established environmental consultancy firm based on the Gold Coast. We have provided professional Environmental Management and Environmental Health Services to both public and private sector clients for over 20 years. Our multidisciplinary team is made up of highly motivated and experienced individuals capable of delivering quality service and cost-effective environmental management solutions.

The company's Director and Principal, Mark Rigby has over 38 years experience in environmental related areas, including a total of 16 years in local government with his last 7 years managing Environment Protection for the Gold Coast City Council. Mark is supported by fellow Director's Natalie Hoskins and Allison Reiser who also have over 25 years experience each, having worked in both government and private sector environmental roles.

### Services

#### Environmental Management

- Environmental Approvals and Permits
- Environmental Risk Assessment & Advisory Services
- Environmental Compliance and Auditing
- Environmental Documentation and Procedure development, including Site/Activity Based Management Plans
- Annual Report & Annual Returns for ERA's
- Environmental Management Systems (AS/NZS ISO 14001) development, implementation and maintenance
- Environmental Management Plans (construction and operational phase)
- Dangerous Goods Management, in particular Flammable & Combustible Liquids Storage
- Environmental Health Services including Food Safety
- Contaminated Land including Site Contamination Assessment & Disposal Permits
- Climate Change and Sustainability Reporting – NPI & NGRS
- Environmental Grant Application Assistance

#### Approvals, Licensing & Permits

- All Development Applications, including Preliminary Approvals, MCU and OPW
- Specialists in Applications for Environmentally Relevant Activities
- Environmental Authority approvals, amendments & transfers under the EP Act
- Operational Works Applications for Vegetation Clearing
- EPBC Act approvals and referrals
- Assistance with Council and State Regulatory policy and code responses
- Assistance with Council & State Planning Policy Code Responses
- Nature Conservation Act approvals
- Disposal Permits for Contaminated Soil

**Impact Assessment & Monitoring**

- Air Quality – Dust and Odour
- Noise
- Surface Water Quality
- Groundwater
- Landfill Gas
- Waste characterisation and Organics analysis
- Environmental monitoring program development & implementation, result interpretation and reporting
- Acid Sulfate Soils investigations
- Monitoring well installation

**Ecological Assessment & Vegetation Management**

- Ecological Assessments to Council, State & Federal guidelines
- Flora Surveys including Protected Plant Surveys
- Fauna Surveys and Impact Management Plans
- BioCondition Surveys and Benchmark Development
- Macroinvertebrate Surveys
- EPBC Act referrals and approvals
- Protected Plant Clearing Permits and Species Management Plans
- Offset Delivery Plans
- Vegetation Management Plans
- Covenant Management Plans
- Site Rehabilitation and Restoration Plans
- Property Maps of Assessable Vegetation Applications (regional ecosystems)
- Land Restoration Fund Advice

**Auditing**

- Exemplar Global Certified Environmental Auditors
- Legislative Compliance audits (local, state and federal)
- Compliance with Regulatory Approvals and/or Codes
- Experience as endorsed Independent Environmental Auditors (NSW State Development Consents and QLD GBRMPA Permit Audits)
- EMS ISO 14001 compliance & gap analysis audits
- Environmental Due Diligence
- Construction Environmental Management Plan audits
- Waste audits
- Energy audits
- Food Safety audits
- Environmental Report Verification

**Waste Management & Resource Recovery**

- DA and ERA approvals for facilities including landfills, waste transfer stations, MRF's, composting facilities, regulated waste transport, metal recovery, liquid waste processing etc
- Site Feasibility/Constraints Assessments
- Waste Management Plans to meet Council Codes
- Landfill & Resource Recovery Master Planning
- End of Waste Approval & Code Advice
- Waste Strategy Development & Policy Review
- Landfill risk assessments for operational and closed facilities

## Professional Memberships and Affiliations



## Specialties

Key areas of expertise that differentiate MRA from other companies:

- Multidisciplinary 'in house' team of experienced qualified experts and use of highly respected sub-consultants.
- Extensive experience project managing the delivery of Environmentally Relevant Activity approvals, in particular for waste management operations including landfills, resource recovery and waste transfer stations and also extractive industries.
- Familiarity and experience with required methodologies for environmental impact assessment, particularly in flora and fauna survey for development assessment, EPBC matters, referrals and offsetting.
- Wide range of auditing experience across both public and private sector organisations ranging from waste industries, civil construction, general industry, ERA's, petroleum and mining operations.
- Extensive knowledge of practical implementation of planning and environmental legislative requirements including development applications.
- Established relationships with relevant local regulatory authorities.
- Customer care skills and drive for customer satisfaction.

For further detailed information please visit our website at [www.mraenvironmental.com.au](http://www.mraenvironmental.com.au) or call our Robina office on 55787040.

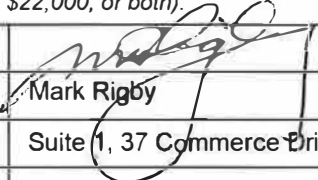


**ATTACHMENT C:**

MRA Environmental Audit Report Certification



# Appendix A Independent Audit Certification Form

Independent Audit Certification Form	
Development Name	Tweed Sand Plant
Development Consent No.	MOD 1 of Development Consent (DA 152-6-2005)
Description of Development	Sand quarrying activities to produce and transport up to 500,000 tonnes of sand products from the site per financial year
Development Address	Altona Road, Cudgen NSW 2487
Operator	Hanson Construction Materials Pty Ltd
Operator Address	Locked Bag 5260 Parramatta NSW 2124
Independent Audit	
Title of Audit	Independent Environmental Audit September 2021, Tweed Sand Plant
<p><i>I certify 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></p> <ul style="list-style-type: none"> <li><i>The audit has been undertaken in accordance with relevant approval condition(s) and in accordance with the auditing standard AS/NZS ISO 19011:2014 and Post Approval Guidelines – Independent Audits</i></li> <li><i>The findings of the audit are reported truthfully, accurately and completely;</i></li> <li><i>I have exercised due diligence and professional judgement in conducting the audit;</i></li> <li><i>I have acted professionally, in an unbiased manner and did not allow undue influence to limit or over-ride objectivity in conducting the audit;</i></li> <li><i>I am not related to any owner or operator of the development as an employer, business partner, employee, sharing a common employer, having a contractual arrangement outside the audit, spouse, partner, sibling, parent, or child;</i></li> <li><i>I do not have any pecuniary interest in the audited development, including where there is a reasonable likelihood or expectation of financial gain or loss to me or to a person to whom I am closely related (i.e. immediate family);</i></li> <li><i>Neither I nor my employer have provided consultancy services for the audited development that were subject to this audit except as otherwise declared to the lead regulator prior to the audit; and</i></li> <li><i>I have not accepted, nor intend to accept any inducement, commission, gift or any other benefit (apart from fair payment) from any owner or operator of the development, their employees or any interested party. I have not knowingly allowed, nor intend to allow my colleagues to do so.</i></li> </ul> <p><b>Note.</b></p> <p>a) <i>The Independent Audit is an 'environmental audit' for the purposes of section 122B(2) of the Environmental Planning and Assessment Act 1979. Section 122E provides that a person must not include false or misleading information (or provide information for inclusion in) an audit report produced to the Minister in connection with an environmental audit if the person knows that the information is false or misleading in a material respect. The maximum penalty is, in the case of a corporation, \$1 million and for an individual, \$250,000.</i></p> <p>b) <i>The Crimes Act 1900 contains other offences relating to false and misleading information: section 192G (Intention to defraud by false or misleading statement—maximum penalty 5 years imprisonment); sections 307A, 307B and 307C (False or misleading applications/information/documents—maximum penalty 2 years imprisonment or \$22,000, or both).</i></p>	
Signature	
Name of Lead / Principal Auditor	Mark Rigby
Address	Suite 1, 37 Commerce Drive, Robina, Qld 4226
Email Address	mrigby@mraenvironmental.com.au
Auditor Certification (if relevant)	Exemplar Global Auditor Certificate No. 15303
Date:	21st September 2021