

Independent Environmental Audit:
Teralba Quarry
Development Consent PA 10-0183



Audit Organisation:	Metromix Pty Ltd
Auditors:	James Hart
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Independent Audit Declaration Form

Project Name: Teralba Quarry
Consent Number: Project Approval PA10-0183
Description of Project: Hard Rock Quarry
Project Address: Rhondda Road Teralba
Proponent: Rhondda Road Teralba
Date: 12 of July 2023

I declare that:

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

Notes:

- a) Under section 10.6 of the Environmental Planning and Assessment Act 1979 a person must not include false or misleading information (or provide information for inclusion in) in a report of monitoring data or an audit report produced to the Minister in connection with an audit if the person knows that the information is false or misleading in a material respect. The proponent of an approved project must not fail to include information in (or provide information for inclusion in) a report of monitoring data or an audit report produced to the Minister in connection with an audit if the person knows that the information is materially relevant to the monitoring or audit. The maximum penalty is, in the case of a corporation, \$1 million and for an individual, \$250,000; and
- b) The Crimes Act 1900 contains other offences relating to false and misleading information: section 307B (giving false or misleading information – maximum penalty 2 years imprisonment or 200 penalty units, or both).

Name of Auditor: James Hart

Signature: 

Qualification: Lead Environmental Auditor – Exemplar Global Certificate No. 12105

Company: James Hart Consulting

1	INTRODUCTION	7
1.1	Overview	7
	Project Details	7
1.2	Audit Team	8
1.3	Audit Objectives	8
1.4	Audit Scope	8
1.5	Audit Period	9
2	Methodology	9
2.1	Approval of Auditors	9
2.2	Audit scope development	9
2.3	Audit Process	9
2.4	Interviewed Persons	10
2.5	Details of Site Inspection	10
2.6	Agency and Community Consultation	10
2.7	Audit Compliance Status Descriptors	11
2.8	Approvals and Documents Audited	11
2.9	Issues to be considered in reviewing this report	13
3	AUDIT FINDINGS	13
3.1	Overview	13
3.2	Assessment of Compliance	14
3.2.1	Air Quality	15
3.2.2	Noise Management	15
3.2.3	Traffic Management	15
3.2.4	Water Management	16
3.2.5	Blast Management	16
3.2.6	Waste Management	16
3.2.7	Biodiversity and Rehabilitation	17
3.2.8	Heritage Management	17
3.3	Lower Level Extraction Management Plan	18
3.4	Previous Audit Findings	18
3.5	Summary of Agency Notices, Orders, Penalty Notices or Prosecutions	18
3.6	Complaints	18
3.7	Additional Matters Raised During Consultation	19
3.8	Audit Site Inspection	20
3.9	Suitability and Adequacy of Plans and the EMS	20
3.10	Actual verses predicted environment impacts	21
3.11	Key Strengths	21
4	Non-compliances and Recommendations	21
4.1	Areas of Non-compliance	22

4.2	Opportunities for Improvement	26
4.3	Areas of compliance	26
5	CONCLUSIONS	27
a.	Substantive Changes.	28
	Appendices	
	Appendix A. - Previous Audit Findings	29
	Appendix B. – Auditor Approval	35
	Appendix C. – Audit Tables	37
b.	Audit Checklist – Development Consent PA 10-0183	38
a.	Environmental Protection Licence No 536	100
b.	Water Access Licence 40303	126
c.	Statement of Commitments	129
	Appendix D. Consultation Records	150
	Appendix E. Site Photographs	155

Abbreviations

AQMP	Air Quality Management Plan
AS	Australian Standard
BCD	Biodiversity and Conservation Division (formerly OEH)
BRMP	Biodiversity and Rehabilitation Management Plan
BMP	Blast Management Plan
CCC	Community Consultative Committee
DA	Development Approval
DDG	Deposition Dust Gauge
DPE	Department of Planning and Environment
DPI	Department of Primary Industries
DRG	Division of Resources and Geoscience
EIS	Environmental Impact Statement
EMS	Environmental Management Strategy
EPA	Environment Protection Authority
EP&A Act	Environmental Planning and Assessment Act 1979
EPL	Environment Protection Licence
HMP	Heritage Management Plan
LLEMP	Lower Level Extraction Management Plan
LMCC	Lake Macquarie City Council
NMP	Noise Management Plan
PIRMP	Pollution Incident Response Management Plan
POEO Act	Protection of the Environment Operations Act 1997
SoC	Statement of Commitments
TMP	Transport Management Plan
TSP	Total Suspended Particulates
TSS	Total Suspended Solids
WAL	Water Access Licence
WMP	Water Management Plan

1 INTRODUCTION

1.1 Overview

Metromix Pty Ltd (Metromix) operate the Teralba Quarry, an existing hard rock quarry located in Teralba NSW.

The Quarry is situated upon Lots 1 and 2 DP 224037 and was initially established in 1964, with the operation purchased by Metromix in 1986. The Teralba Quarry Extension Project was approved in February 2013 under PA10_0183. A modification (MOD 1) to PA 10_0183 was approved on 16 April 2018.

The currently approved Teralba Quarry Extension project (MOD 1) provides for the continuation and expansion of the Teralba Quarry for the production of sand, aggregates and road base:

- extracting up to 1.2 Mtpa of mainly conglomerate rock;
- trucking by road of up to 1.0 Mtpa of quarry products;
- establishing a tunnel beneath Rhondda Road for a conveyor (if required to be constructed for the Northern Extension); and
- progressive rehabilitation of the disturbed areas of the quarry site.

The total Teralba Quarry Extension site area is 130ha, including worked out extraction areas and infrastructure (process plant and stockpile areas, administration building, weighbridge and workshop area) and 73.3 ha consisting of:

- 47.5 ha of current extraction areas;
- Northern Extension area 16.5 ha;
- Southern Extension area 9.3 ha.

The conditions of approval require Teralba Quarry to appoint an independent auditor to assess compliance with the Minister's Conditions of Approval obtained for the quarry operations.

Project Details

Project Name	Teralba Quarry
Project Application Number	Development Consent PA 10-0183
Project Address	Rhondda Road Teralba New South Wales.
Project Phase	Operational.
Project Description	<p>The approved activities at the Quarry comprise the following.</p> <ul style="list-style-type: none">• Development and use of an extraction area to mainly conglomerate rock using standard drill, blast, load and haul techniques.• Crushing and processing of hard rock material to produce quarry products.• Transportation of up to 1,000 000t per year of quarry products.• Progressive rehabilitation and construction of the final landform.

1.2 Audit Team

The audit was conducted by the following:

Auditor	Role	Qualifications
James Hart	Lead Auditor	Lead Environmental Auditor Exemplar Global No 12105 Newcastle University, Graduate Diploma in Environmental Science, 1997

The independent audit declaration form is attached as Appendix C.

1.3 Audit Objectives

The objective of this audit was to undertake the independent environmental audit of the project in compliance with the Development Consent PA 10-0183 (Mod 1) to assess compliance with the conditions of consent, environmental protection licence, water access licence, Statement of Commitments and relevant management plans. The audit was conducted with consideration of the Department of Planning Industry and Environment Independent Audit Post Approval Requirements June 2020 (IAPAR 2020).

1.4 Audit Scope

The scope of this audit comprised of the following:

- Consultation with stakeholders to obtain their input into the scope of the audit;
- Review of compliance against Development Consent PA 10-0183 (Mod 1):
- Review of requirements of EPL 536;
- Review of requirements of Water Access licence 40303;
- Review of implementation of the following management plans:
 - Environmental Management Strategy – Teralba Quarry, Rev 03, 20 December 2018;
 - Air Quality Management Plan – Teralba Quarry, Rev 6, 9 December 2019;
 - Water Management Plan– Teralba Quarry, Rev 05, 21 September 2020;
 - Noise Management Plan – Teralba Quarry, Rev 03, 10 December 2021;
 - Biodiversity and Rehabilitation Management Plan – Teralba Quarry, Approved 18 June 2019;
 - Transport Management Plan – Teralba Quarry, Rev 5, 9 December 2019.
 - Blast Management Plan – Teralba Quarry, Rev 6, 30 June 2020.
 - Lower Level Extraction Management Plan – Teralba Quarry, September 2016;
 - Bushfire Management Plan – Teralba Quarry, Final, February 2014;
 - Waste Management Plan – Teralba Quarry, Rev 03, 9 December 2019;
- the performance of the operation;
- results from previous audits;
- any incidents or community complaints;

- Site inspection of the development area.

The audit criteria were developed by the Lead Auditor, and are included as a checklist at the end of this report.

1.5 Audit Period

This was the third independent environmental audit carried out on the project, which covered the period January 2020 to January 2023.

2 Methodology

2.1 Approval of Auditors

Metromix Pty Ltd engaged James Hart as the independent environmental auditor to conduct this audit. The auditor details and certification were discussed in Section 1.2 of this report. Auditor's approval letter from DPE is attached as Appendix C.

2.2 Audit scope development

The audit scope and a checklist was developed based on the Development Consent PA 10-0183 (Mod 1), statement of commitments, requirements of Environment Protection License (EPL) 536, requirements of Water License 40303 and feedback from agencies consulted.

2.3 Audit Process

The audit commenced with an Opening Meeting to confirm the scope, purpose, and timeline of the audit. The Opening Meeting was held at 08.30am on 6 February 2023.

Key operational documents were reviewed, and evidence of compliance was sought through the interview process. Key documents where the various management plans required under the approval. Documentation included a combination of hard copy records and electronic records maintained by Metromix.

The audit activities included the following:

- A site walk to review implementation of mitigation measures and environmental controls on 6 February 2023 accompanied by the Mo Yunusa, Darryn Bosch, Nicholas Warren and Sophia Amini (R.W. Corkery);
- Desktop review of the project documentation (EMP and its sub-plans) to verify compliance with the Project Approval, EPL and WAL requirements;
- Review of available records on the project website and records provided during the site audit and records provided subsequently as evidence of compliance; and
- Submission of draft report to Metromix for review prior to finalisation of report and submission to DPE.

A closing meeting was held at 5.00pm on 6 February 2023 where the preliminary audit findings were presented. Where aspects of the audit remained unresolved, Metromix was requested to provide additional information. This information was provided on between the 1/02/2023 and 17/02/2023.

2.4 Interviewed Persons

Name and position of persons interviewed:

Name	Organisation	Position
Mo Yunusa	Metromix Pty Ltd	Manager of Quarries
Darryn Bosch	Metromix Pty Ltd	Quarry Manager

2.5 Details of Site Inspection

A site inspection of the quarry was conducted with focus on the following controls:

- Erosion and sedimentation controls;
- Water storage;
- access/egress;
- Roads surrounding the site for dust/mud tracking;
- Dust management;
- Waste management;
- Site fence and vegetation screening;
- Boundary markers;
- Chemical storage;
- Site signage; and
- General housekeeping.

2.6 Agency and Community Consultation

Consultation with the following was undertaken prior to the audit to obtain feedback and to focus the audit criteria on key issues.

Refer to **Appendix C** for consultation records provided.

Contact	Agency	Comments
Lisa Andrews Independent Chairperson	Community Consultative Committee	The Metromix Teralba Quarry CCC is a very small committee. We only meet annually and receive a comprehensive presentation from the proponent. There are no real issues or concerns raised.
James Epstein Senior Compliance Officer Development Assessment	Department of Planning and Environment	The department requests particular attention is made to the following items during the upcoming Independent Environmental Audit: <ul style="list-style-type: none">• Implementation of the Noise Management Plan; and• Implementation of the Blast Management Plan
Jenny Ehmsen Principal Compliance Auditor MAI - Enforcement Resources Regulator	Resources Regulator	Records held by the NSW Resources Regulator (the Regulator) indicate that there are no mining leases under the Mining Act 1992 currently associated with the quarry. As such, the Regulator does not have any requirements for the independent audit.

Lisa Potter Operations Officer Regulatory Operations	NSW Environment Protection Authority	I conducted an inspection of the Metromix premises on 18/11/2020. At that time no concerns were identified with the operations at Teralba. One issue raised during the inspection was the accuracy of dust and noise monitoring at point A (monitoring point 11) on Myrtle St, as this is an industrial area and there is potential for the monitoring results to be impacted by industrial area operations. No further action was taken at that time.
Glen. Mathews Development Planner	Lake Macquarie City Council	No response

Issues raised during the agency consultation process were considered in development of the audit checklist and checked and reviewed during the site inspection and review of records.

2.7 Audit Compliance Status Descriptors

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

2.8 Approvals and Documents Audited

The following documents and approvals were reviewed and included within the audit:

- Development Consent PA 10-0183 (Mod 1).
- Environment Protection Licence 536.
- Water Access Licence 40303.
- Environmental Management Strategy – Teralba Quarry, Rev 03, 20 December 2018;
- Air Quality Management Plan – Teralba Quarry, Rev 6, 9 December 2019;
- Water Management Plan– Teralba Quarry, Rev 05, 21 September 2020;
- Noise Management Plan – Teralba Quarry, Rev 03, 10 December 2021;
- Biodiversity and Rehabilitation Management Plan – Teralba Quarry, Approved 18 June 2019;
- Transport Management Plan – Teralba Quarry, Rev 5, 9 December 2019.
- Blast Management Plan – Teralba Quarry, Rev 6, 30 June 2020.
- Lower Level Extraction Management Plan – Teralba Quarry, September 2016;
- Bushfire Management Plan – Teralba Quarry, Final, February 2014;
- Waste Management Plan – Teralba Quarry, Rev 03, 9 December 2019.
- Independent Environmental Audit, Teralba Quarry, AQUAS, February 2020.
- 55960_ IEA 2020_Metromix Response 20200313.

- Teralba Quarry Project 2020 Annual Review for the period 1 January 2020 to 31 December 2020, March 2021.
- Teralba Quarry Project Annual Review 2021 for the period 1 January 2021 to 31 December 2022.
- Community Complaints Register 2020
- Community Complaints Register 2021
- Community Complaints Register 2022
- Bank Guarantee DG971263418.
- Letter – Revised Rehabilitation Bond Calculation, 2/04/2020
- Lake Macquarie Haulage Levy Tax Invoice, 8 July 2020.
- Lake Macquarie Haulage Levy Tax Invoice, 14 July 2021.
- Lake Macquarie Haulage Levy Tax Invoice, 3 March 2021.
- Lake Macquarie Haulage Levy Tax Invoice, 19 July 2022.
- 2022 Nest Box Monitoring Report, ECHO Ecology and Surveying.
- 2021 Nest Box Monitoring Report, ECHO Ecology and Surveying.
- 2020 Nest Box Monitoring Report, ECHO Ecology and Surveying.
- Report – Hollow- Bearing Tree Survey of Stages 1C and 2BA Stripping, Echo Ecology, 10/08/2020
- REF (Project SC-11765: Relation of 33kV and 11kV Power Lines, Teralba, December 2019).
- Letter: Re Proposed Relocation of Ausgrid 33kv & 11kv Assets At 158 Rhondda Road Teralba; Lots 1 & 2 DP 224037; TBA19-06605, Mine Subsidence Advisory NSW 3/12/2019.
- Ausgrid Asset Relocation Offer , Project No AN-11765, 16/01/2020.
- Metromix Quarry Employee/Contractor Teralba Site Induction
- Teralba Quarry Rapid Induct and Rapid Access Records
- February 2021 Propeller survey.
- Monthly truck Movement summaries – January 2020 to January 2023.
- Summary of Production data 2022.
- August 2020 Noise Monitoring Report – Teralba Quarry, Spectrum Acoustics
- August 2021 Noise Monitoring Report – Teralba Quarry, Spectrum Acoustics
- November 2021 Noise Monitoring Report – Teralba Quarry, Spectrum Acoustics
- September 2022 Noise Monitoring Report – Teralba Quarry, Spectrum Acoustics
- Teralba Quarry Plant Maintenance records
- Blast Monitoring Records January to December 2020
- Blast Monitoring Records January to December 2021
- Blast Monitoring Records January to December 2022
- EPL 536 Monthly Monitoring Summary - December 2020
- EPL 536 Monthly Monitoring Summary - December 2021
- EPL 536 Monthly Monitoring Summary - December 2022
- Quarterly Maintenance Report 31/01/2023.
- Minutes of Meeting Teralba Quarry Community Consultative Committee (CCC) Via Teleconference*, 6 May 2020
- Minutes of Meeting Teralba Quarry Community Consultative Committee (CCC), 5 May 2021
- Minutes of Meeting Teralba Quarry Community Consultative Committee (CCC), 17 May 2021
- Email response from DPE 14/02/2020 RE: Blast Overpressure Exceedance
- Email to DPE 3/08/2020 EPL: 536 Condition L2.4 Exceedance reporting Water Quality Exceedance between 25 & 28/07/2020
- Email to EPA 19/02/2020 Re dust monitoring Exceedance Jan 2020

- Email 17/11/2021 Re Noise Monitoring November 2021 MP10 0183-PA-15
- Email to DPE 3/08/2020 re Water Quality Exceedance.
- Email to DPE/ EPA 16/03/2020 – Teralba Quarry Blasting Exceedance.
- Email to DPE 13/03/2020
- Email to DPE 26/03/2020 – Blasting Exceedance Notification.

2.9 Issues to be considered in reviewing this report

This audit was based on a review of compliance with the approval conditions for the operation of the Teralba Quarry.

In particular, the audit focused on the implementation of measures described in the various Environmental Management Plans to manage the impacts of the activities on the surrounding environment. The checklist appended to this report identifies those compliance issues that could be assessed given the stage of the project.

By its very nature an audit does not guarantee full compliance of all aspects of the project with the undertakings of the Management Plans and associated documentation. However; in the opinion of the auditor, the extent and scope of the field inspection together with the records maintained by Metromix were sufficient evidence to verify general compliance of the activities with the requirements of the conditions of approval.

3 AUDIT FINDINGS

3.1 Overview

Specific activities being undertaken at the time of audit were:

- Extraction and crushing of material;
- Screening and stockpiling of material; and
- Loading of trucks for dispatch.

The attached checklists record the outcomes of the audit process.

	Requirements	Findings
Schedule 2 – Administrative Controls	23	Compliant – 19
		Non-Compliant – 1
		Not Triggered – 3
Schedule 3 – Environmental Performance Conditions	32	Compliant – 48
		Non-Compliant – 5
		Not Triggered – 10
Schedule 4 – Additional Procedures	3	Compliant – 0
		Non-Compliant – 1
		Not Triggered – 2
Schedule 5 – Additional Procedures	13	Compliant – 10
		Non-Compliant – 3
		Not Triggered – 0
EPL 536	77	Compliant – 57
		Non-Compliant – 7
		Not Triggered – 13
Statement of Commitments	119	Compliant – 112
		Non-Compliant – 0
		Not Triggered – 7
WAL 40303	5	Compliant – 5
		Non-Compliant – 0
		Not Triggered – 1

3.2 Assessment of Compliance

Overall, the project had implemented processes to generally manage compliance with Development Consent PA 10-0183 (Mod 1), EPL 536, WAL 40303 and the Statement of Commitments.

Quarrying activities have been undertaken within the approved boundaries, which have been clearly identified on site. The conditions of consent permit quarrying operation to a depth of 20m AHD. It was noted that the site survey showed areas of the quarry floor was below 20m AHD (down to 18m AHD). It was reported that the areas below 20m AHD were the result of collapse of underground workings, and not the result of quarrying activities. In accordance with the approved Lower Level Extraction Management Plan, areas where previous mine workings have resulted in depths greater than 20m AHD are filled to ensure a final depth of 20m AHD.

The attached checklists record the outcomes of the audit process. Ten non-compliances have been raised where compliance with the conditions of consent, EPL, WAL, Statement of Commitments or management plans could not be verified.

3.2.1 Air Quality

An Air Quality Management Plan, which included controls to minimise air quality impacts and monitoring requirements, had been developed, approved and implemented for the project.

Controls had been implemented to minimise the impact of the project on air quality. The site was progressively cleared and rehabilitated. Irrigation sprays had been installed on the conveyors to minimise dust generation, and a water cart used for dust suppression within the quarry.

Deposited dust monitoring had been conducted, with no exceedances of the site annual average deposited dust criteria occurring.

In accordance with the approved Air Quality Management Plan, PM₁₀ dust monitoring is conducted. Exceedances of the 24 hour average criteria were recorded on the 21 and 22 January 2020. These exceedances were attributed to bushfires in the region, and not the result of quarry activities. It was noted that PM₁₀ monitoring was not conducted on 3/01/2020 or 9/01/2020 as a result of equipment malfunction. This issue was raised as non-compliance NC-05.

During the audit, evidence was sighted to verify that controls identified in the AQMP had been implemented. Monitoring results verify that controls implemented were effective in managing air quality impacts of the project.

3.2.2 Noise Management

A Noise Management Plan had been developed, approved and implemented in accordance with Schedule 3 Condition 18, which identified noise monitoring requirements.

Noise monitoring was conducted on an annual basis in accordance with the requirements of the Noise Management Plan and EPL. Noise monitoring conducted in August 2021 identified exceedances of the noise criteria at two monitoring locations. Investigations identified that the exceedance was the result of changes to onsite activities. Activities on site were subsequently modified to reduce noise emissions, including how work was scheduled and executed. No further noise exceedances had been recorded.

The Noise Management Plan had been reviewed and subsequently approved following the noise criteria exceedance. No further exceedances or noise related complaints had been received, indicating that the measures implemented were successful in managing noise generation.

One complaint had been received during the period covered by this audit in relation to noise from trucks. The complaint was subsequently investigated, including and the results of the investigation provided to the complainant. No further noise complaints had been received.

As a result of the exceedance identified in August 2021, Non-compliance NC-02 was raised.

3.2.3 Traffic Management

A Transport Management Plan (TMP) had been developed and approved for the management of site traffic.

The TMP incorporated approved transport routes for vehicles travelling to and from the site and parking areas. Light and heavy vehicles had been segregated, with a dedicated light vehicle parking areas provided.

Records of driver inductions, including the driver code of conduct, were available, and vehicle inspection checks had been conducted to verify compliance with site requirements.

The audit found compliance with the requirements of the TMP. Records of truck movements were maintained from weighbridge information, which showed truck movements were compliant with site requirements.

One complaint had been received in relation to truck movements. Records verified that the complaint had been investigated, including and the results of the investigation provided to the complainant.

No non-compliances in relation to transport management were identified.

3.2.4 Water Management

A Water Management Plan (Rev 05, dated 21/09/2020) had been developed and approved for the project. The WMP had been verified as compliant with the conditions of approval.

Records were available to demonstrate that water monitoring had been conducted in compliance with the requirements of the consent conditions and EPL.

Exceedance of EPL total suspended solids criteria for water discharged was reported on three consecutive days in July 2020 following a period of significant rainfall (129.4mm, exceeding the design rainfall level for the Quarry). Records were available to verify that the exceedances had been reported to DPE and the EPA. No changes to the WMP or additional measurement measures were required to be implemented, given that the exceedance resulted from rainfall exceeding the design rainfall level for the quarry, and was not the result of a control failure or deficiency in the water management system.

Regular inspections of the quarry, including infrastructure and water management measures were conducted.

Non-compliance NC-05 was raised as a result of the exceedance of EPL water quality criteria.

3.2.5 Blast Management

A Blast Management Plan was prepared to satisfy Project Approval Schedule 3 condition 16 and submitted to DPE on 6 September 2013. The Blast Management Plan has been updated on multiple occasions, with the latest review occurring in 2020 following exceedances of the blast overpressure criteria.

One non-compliance (NC-03) was identified in relation to blast management as the result of 3 exceedances of the blast overpressure in the Period February - March 2020. Records were available to verify that the blast criteria exceedances had been reported to DPE and the EPA, and that a thorough investigation into the exceedances had been completed. As a result of the investigations, the blast design parameters had been modified, with a robust system implemented for managing blasts, as described in Section 8.4 of the BMP.

An Official Caution was issued by DPE as a result of the blast overpressure exceedances.

Following implementation of the reviewed blast design parameters, no exceedances of the blast criteria have occurred, indicated that the measures implemented have been successful in managing blast impacts.

3.2.6 Waste Management

Facilities had been provided for the storage and disposal of waste on site. Records were available to verify that, where applicable, waste had been collected by an approved waste contractor and

disposed of at an appropriate facility. Septic waste was disposed of onsite through an onsite aerated wastewater treatment system. Records were sighted to verify regular maintenance of the aerated wastewater treatment system.

3.2.7 Biodiversity and Rehabilitation

The Quarry has been operating under a Biodiversity and Rehabilitation Management Plan (BRMP) which had been updated (Rev 04, 19 June 2018). No changes to the BRMP had occurred during the period covered by the current audit. The BRMP included requirements for clearing, threatened species, weeds and feral pests, and monitoring requirements.

All extraction activities had been undertaken within Stage 1A, 1B, 1C, and Stage 2 of the southern extension.

T.E.N.T.A.C.L.E Inc had been engaged to conduct rehabilitation and weed management for the site. Rehabilitation of extraction benches, disturbed areas not required for operational purposes, and silt cells has been undertaken.

Weeding of active areas of the quarry and undisturbed non-operational areas had been conducted, as well as weeding and maintenance of previously rehabilitated areas, including the location of the translocated *Tetratheca juncea*.

No non-compliances had been identified in relation to biodiversity and rehabilitation management.

3.2.8 Heritage Management

A Heritage Management Plan (HMP) was prepared in June 2013 to satisfy the requirements of Project Approval 10_0183 Schedule 3 condition 49 and submitted to DPE and approved on 19 September 2014.

The Heritage Management Plan was updated (Version 3, 11/09/2019) and approved by DPE on 6/12/2019.

The audit found that the site was in compliance with requirements of the Heritage Management Plan.

Two Aboriginal artefacts which had been identified during a field survey prior to stage 2 clearing works had been collected and stored awaiting agreement from Aboriginal representatives on a suitable location for reburial. Records showed the quarry had been in regular contact with archaeologist representatives.

No unexpected heritage finds had been identified during the period covered by the current audit.

Records were available to verify that a cultural heritage training package had been developed and implemented.

3.3 Lower Level Extraction Management Plan

A Lower Level Extraction Plan was prepared by Mining Operation Services (MOS) and G E Holt & Associates (GHA) for the Teralba Quarry and submitted to DP&I in February 2014. The Lower Level Extraction Plan was approved by DP&E on 23 November 2016.

The audit found that the site was in compliance with requirements of the Lower Level Extraction Management Plan.

3.4 Previous Audit Findings

Previous audit findings were reviewed as part of the current audit to assess implementation of actions identified to address issues. Actions to address previous audit findings had been identified and previous non-compliances had generally been closed out. Where non-conformances had not been closed out, a new non-compliance was raised in the current audit. A summary of previous findings and status is provided in Appendix A.

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

No reportable environmental incidents that constitute material harm to the environment occurred during the period covered by this audit.

One Official Warning had been issued by DPE following 3 exceedances of the blast overpressure criteria in 2020. No further exceedances had occurred.

A Prohibition Notice was issued by the Resources Regulator in relation to works near exposed underground workings at the base of Bench 5 in the vicinity of Stage 1B. No further works have been undertaken in this area.

3.6 Complaints

A Complaints Register is available where information regarding complaints was recorded, including the relevant resolution. A summary of complaints was published on the company website. One complaint had been received Via DPE during the period covered by the current audit. Records were sighted to verify that complaints had been actioned and closed out.

Date	Complaint Details	Quarry Response
12/11/2020	Local resident called to complain about the amount of truck movements going through the intersection of Rhondda Road and Railway Street. The complainant advised that in recent months he has observed an increase in truck traffic and the associated noise levels have made it so he can no longer sit on his porch and speak with his partner. The complainant also advised that he can hear truck movements from as early as 5:30am and requested if the traffic can be diverted around Rhondda Road. The complainant then advised that the intersection has become a safety hazard due to the trucks driving wide of their lane.	Metromix entered details of this complaint into their online reporting system. The Quarry Manager conducted an investigation into the complaint and responded to the complainant in writing the following day. The findings from the investigation showed that truck movements for the preceding two months were within the approved limits and the complainant was given copies of the quarry's project approval, 2020 noise monitoring report, October truck movement report and September truck movement report. The complainant

		responded on 16/11/2020 with: 'Thank you and I will review, regards
1/10/2021	At approximately 8:05am a Metromix truck passed too close to local resident Jim Heaton as he rode his horse along Wakefield Road. Not long after Jim called the quarry to advise that this was not the first time that Metromix trucks have passed too close to him while he rides his horse along Wakefield and Rhondda Roads. Jim did not wish to provide the truck number in question at this stage however, if the issue happens again he will ride his horse along the middle of the road from Wakefield Road to Rhondda Road and past the quarry entrance. Jim advised that this is approx 5km's and would take him 30mins to complete and he does not care how many people he inconvenience's in process. I apologised to Jim regarding his experience and advised that we will draft a company memo that will be communicated to the transport team and Downer Asphalt. Jim was happy to be contacted via his mobile to be advised when this is done.	Contacted Jim on 14th October to advise the memo has been drafted and communicated to the transport department, Downer Asphalt and the Quarry. The memo is on display at the quarry weighbridge and sign in station so all drivers and visitors can view it. Jim did not wish to receive a copy of the memo and advised that he has already noticed a positive change in driver behaviour with trucks slowing down and providing more room when passing him. Jim thanked Metromix for their effort in resolving his complaint.
8/06/2022	A member of the public called the Resources Regulator to report a near miss between themselves and a White Prado that had entered Rhondda Road from the Teralba Quarry exit. The Resources Regulator called the Quarry Manager to discuss this report. The Resources Regulator advised that they do not control safety on public roads and therefore advised the complainant to contact the local council. The Resources Regulator requested for the Quarry Manager to toolbox the quarry staff regarding the complaint.	The site staff have been tool-boxed of the reported incident and reminded that to exit and enter the site in a safe manner.

3.7 Additional Matters Raised During Consultation

Agency	Issue	Finding
DPE	The department requests particular attention is made to the following items	The audit found that there was general compliance with the Noise and the Blast Management Plans.

	<p>during the upcoming Independent Environmental Audit:</p> <ul style="list-style-type: none"> • Implementation of the Noise Management Plan; and • Implementation of the Blast Management Plan 	<p>A non-compliance was raised in 2020 following exceedance of noise criteria during annual monitoring. Actions were identified and implemented to reduce noise emissions from the site. No further noise exceedances or complaints have been recorded.</p> <p>Non-compliances had been identified in relation to exceedances of blast criteria in 2020, which resulted in an Official Caution being issued by DPE. No further exceedances had occurred in 2021 or 2022.</p> <p>Refer to Section 3.2 for further information on noise and blast management performance</p>
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3.8 Audit Site Inspection

The site inspection was conducted on 6 February by the Lead Auditor James Hart accompanied by Darryn Bosch and Nicholas Warren and Sophia Amini (R.W. Corkery). Specific activities being undertaken at the time of audit were:

- Loading and haulage of material from the quarry to the processing plant;
- Operation of quarry earthmoving equipment, including front end loader;
- Screening and stockpiling of material; and
- Loading of trucks for dispatch.

The site environmental controls and mitigation measures were verified including:

- Sealed road had been provided for access/ egress to the site,
- Water cart was available for dust control. Noted that no significant dust was being generated during the site inspection,
- Dedicated storage areas had been provided for oils and chemicals on site,
- Receptacles were provided for segregation and storage of wastes,
- Spill kits were available on site,
- Erosion and sediment controls had been implemented,
- Areas containing *Tetratheca juncea* had been isolated using barrier tape;
- Water storage ponds were in good condition, and
- site was generally clean and tidy.

It was noted that barrier tape around some areas containing *Tetratheca juncea* had been damaged. Consideration should be given to repairing/ replacing damaged tape.

3.9 Suitability and Adequacy of Plans and the EMS

An assessment of the general adequacy and compliance against Project Approval conditions of key management plans was undertaken and is provided in Appendix A. It should be noted, however, that a detailed or technical assessment of these management plans was not undertaken.

Overall, the EMS, sub-plans and compliance were found to be adequate, had been provided by appropriately qualified and experienced personnel, received the appropriate approval and had been satisfactorily implemented. Commentary on individual management plans is provided in Section 3.2.

Environmental Management System (EMS) was robust with strengths in communication processes, documentation and record keeping, induction, training and competence, environmental controls and non-conformance/corrective action processes.

Management plans have been reviewed and revised where required. Management plans have

been updated and submitted to DPE for approval within the timeframe as per the approval conditions, with the exception of following the 2021-2022 Annual Review. While a letter providing evidence to show the management plans had been reviewed (no changes required) was sighted, evidence that the letter had been submitted to the Department was not available. Refer Non-compliance NC-09.

Where compliance with requirements of the requirements of management plans could not be demonstrated, non-compliances were raised. Details of non-compliances are provided in Section 4.

3.10 Actual verses predicted environment impacts

Review of monitoring data identified that the impacts on air, water and noise quality was consistent with predicted impacts. While air quality exceedances had occurred, these were the result of bushfires in the region, not site activities. Water quality exceedances recorded results from a very high rainfall event and was not considered to adversely affect downstream water quality.

Noise impacts from Quarrying operations were generally inaudible at monitoring locations, with the exception of monitoring conducted in August 2021, where noise impacts exceeded site criteria and predicted impacts. Additional control measures had been implemented to minimise the risk of further exceedances, with subsequent monitoring showing noise impacts consistent with predicted levels.

Impacts on biodiversity were consistent with predicted impacts. Clearing had been conducted within the approved project limits, and controls had been implemented to minimise the impact on fauna and protect endangered flora.

3.11 Key Strengths

Overall, the project environmental performance in compliance with Development Consent SSD 10_0183 was satisfactorily met with the following key strengths noted:

- The process for managing complaints and non-conformances has been implemented and recorded. Prompt response to complaints was noted.
- Implementation of environmental control, including:
 - Rehabilitation of disturbed areas;
 - water management;
 - Dust management; and
 - the site was maintained in a clean and tidy condition.

4 Non-compliances and Recommendations

The table following outlines the identified non-compliances as well the auditor's recommendations. Auditor's notes are detailed in the attached **Appendix A – Audit Table**.

4.1 Areas of Non-compliance

Issue No.	Condition	Requirement	Issue sighted	Recommendation																																									
NC-01	Schedule 2 Condition 2	The Proponent, in acting on this approval, must carry out the project in accordance with: (a) the conditions of this approval; and (b) all written directions of the Secretary	Non-compliances has been recorded against Conditions of Approval Schedule 3 (Conditions 4,26,30), Schedule 5 (Condition 1,10,11).	It is recommended that all non-compliances identified are addressed and closed out. Consider implementing a process to track compliance requirements and status.																																									
NC-02	Schedule 3 Condition 5 EPL L5.1, L5.2, L5.3	<p>Noise Criteria</p> <p>The Proponent must ensure that the noise generated by the project does not exceed the criteria in Table 2 at any residence on privately-owned land.</p> <p><i>Table 2: Noise criteria dB(A)</i></p> <table><tr><th rowspan="2">Location</th><th>Day Shoulder 6 -7 am</th><th>Day 7 am – 6 pm</th><th>Evening 6 – 10 pm</th><th colspan="2">Night 10 pm – 6 am</th></tr><tr><th>L_{Aeq}(15 min)</th><th>L_{Aeq}(15 min)</th><th>L_{Aeq}(15 min)</th><th>L_{Aeq}(15 min)</th><th>L_{A1}(1 min)</th></tr><tr><td>A</td><td>38</td><td>38</td><td>37</td><td>35</td><td>45</td></tr><tr><td>B</td><td>42</td><td>46</td><td>36</td><td>35</td><td>45</td></tr><tr><td>C</td><td>42</td><td>42</td><td>35</td><td>35</td><td>45</td></tr><tr><td>D, E, G, H, I</td><td>35</td><td>35</td><td>35</td><td>35</td><td>45</td></tr><tr><td>F</td><td>37</td><td>38</td><td>38</td><td>35</td><td>45</td></tr></table> <p><i>Notes:</i></p>	Location	Day Shoulder 6 -7 am	Day 7 am – 6 pm	Evening 6 – 10 pm	Night 10 pm – 6 am		L _{Aeq} (15 min)	L _{Aeq} (15 min)	L _{Aeq} (15 min)	L _{Aeq} (15 min)	L _{A1} (1 min)	A	38	38	37	35	45	B	42	46	36	35	45	C	42	42	35	35	45	D, E, G, H, I	35	35	35	35	45	F	37	38	38	35	45	Noise exceedances at two locations (D, E) on 16 August 2021.	Where significant changes to quarry operations are planned, the potential noise impact of the planned changes should be reviewed to ensure that the changes do not result in noise level exceedances.
Location	Day Shoulder 6 -7 am	Day 7 am – 6 pm		Evening 6 – 10 pm	Night 10 pm – 6 am																																								
	L _{Aeq} (15 min)	L _{Aeq} (15 min)	L _{Aeq} (15 min)	L _{Aeq} (15 min)	L _{A1} (1 min)																																								
A	38	38	37	35	45																																								
B	42	46	36	35	45																																								
C	42	42	35	35	45																																								
D, E, G, H, I	35	35	35	35	45																																								
F	37	38	38	35	45																																								
NC-03	Schedule 3 Condition 9 EPL L6.3	<p>Blasting Criteria</p> <p>The Proponent must ensure that the blasting on the site does not cause exceedances of the criteria in Table 4.</p> <p>Table 4: Blasting criteria</p> <table><tr><th>Location</th><th>Airblast overpressure (dB(Lin Peak))</th><th>Ground vibration (mm/s)</th><th>Allowable exceedance</th></tr><tr><td>Any residence on privately owned land, or any public infrastructure</td><td>120</td><td>10</td><td>0%</td></tr><tr><td></td><td>115</td><td>5</td><td>5% of the total number of blasts over a period of 12 months</td></tr></table> <p>However, these criteria do not apply if the Proponent has a written agreement with the relevant owner or infrastructure provider/owner, and the Proponent has advised the Department in writing of the terms of this agreement.</p>	Location	Airblast overpressure (dB(Lin Peak))	Ground vibration (mm/s)	Allowable exceedance	Any residence on privately owned land, or any public infrastructure	120	10	0%		115	5	5% of the total number of blasts over a period of 12 months	The air blast overpressure criteria was exceeded on three occasions in the period January and March 2020.	Subsequent to the blast exceedances, Metromix have implemented processes to manage blasts and ensure compliance with blast criteria. No further exceedances have occurred. No further action required.																													
Location	Airblast overpressure (dB(Lin Peak))	Ground vibration (mm/s)	Allowable exceedance																																										
Any residence on privately owned land, or any public infrastructure	120	10	0%																																										
	115	5	5% of the total number of blasts over a period of 12 months																																										

Independent Environmental Audit – Metromix Teralba Quarry

Commercial in Confidence

Issue No.	Condition	Requirement	Issue sighted	Recommendation
NC-04	Schedule 3 Condition 19	Operating Conditions The Proponent must: <ul style="list-style-type: none"> (a) implement best management practice to minimise the dust emissions of the project; (b) regularly assess air quality monitoring data and relocate, modify, and/or stop operations on site as may be required to ensure compliance with the relevant conditions of this approval, (c) minimise the air quality impacts of the project during adverse meteorological conditions and extraordinary events (see Note d to Tables 5-7 above); (d) minimise any visible off-site air pollution; (e) minimise surface disturbance of the site and undertake progressive rehabilitation of the site; and monitor and report on compliance with the relevant air quality conditions in this approval, to the satisfaction of the Secretary.	PM10 monitoring not conducted on 3/01/2020 and 9/01/2020 due to equipment failure.	Metromix should ensure that monitoring is undertaken in accordance with the approved AQMP.
NC-05	Schedule 3 Condition 23	Surface Water Discharges The Proponent must ensure that all surface water discharges from the site comply with the discharge limits in any EPL which regulates water discharges from the site, or with section 120 of the POEO Act.	3 exceedances of the TSS criterion were recorded at EPL Point 5 during discharge on 27, 28 and 29/07/2020. The exceedances were identified as resulting from significant rainfall.	Exceedances were the result of high rainfall exceeding the design capacity of the water management system and not the failure of water management controls or deficiency in the water management system. No further action required.
NC-06	Schedule 4 Condition 1	As soon as practicable and no longer than 7 days after obtaining monitoring results showing an: <ul style="list-style-type: none"> (a) exceedance of any relevant criteria in Schedule 3, the Proponent must notify affected landowners in writing of the exceedance, and provide regular monitoring results to each affected landowner until the project is again complying with the relevant criteria; and an exceedance of the relevant air quality criteria in Schedule 3, the proponent must send a copy of the NSW Health fact sheet entitled “ <i>Mine Dust and You</i> ” (as may be updated from time to time) to the affected landowners and/or existing tenants of the land.	While the EPA and DPE were notified of the exceedance of noise criteria in August 2021, residents had not been notified.	Where an exceedance of any relevant criteria in Schedule 3 is identified, Metromix should notify affected landowners in writing of the exceedance, and provide regular monitoring results.
NC-07	Schedule 5 Condition 2	Adaptive Management	Exceedances of the criteria and/ or performance measures were identified in	Metromix should ensure that adequate controls are identified and implemented to ensure no exceedances of

Independent Environmental Audit – Metromix Teralba Quarry

Commercial in Confidence

Issue No.	Condition	Requirement	Issue sighted	Recommendation
		<p>The Proponent must assess and manage project-related risks to ensure that there are no exceedances of the criteria and/or performance measures in Schedule 3. Any exceedance of these criteria and/or performance measures constitutes a breach of this approval and may be subject to penalty or offence provisions under the EP&A Act or EP&A Regulation.</p> <p>Where any exceedance of these criteria and/or performance measures has occurred, the Proponent must as soon as becoming aware of any exceedance:</p> <ul style="list-style-type: none"> (a) take all reasonable and feasible steps to ensure that the exceedance ceases and does not reoccur; (b) consider all reasonable and feasible options for remediation (where relevant); (c) within 14 days of the exceedance occurring, submit a report to the Secretary describing these remediation options and any preferred remediation measures or other course of action; and (d) implement remediation measures as directed by the Secretary, to the satisfaction of the Secretary. 	relation to noise, water quality and blasting.	project criteria or performance measures occur.
NC-08	Schedule 5 Condition 8	<p>Revision of Strategies, Plans & Programs</p> <p>Within 3 months of the submission of an:</p> <ul style="list-style-type: none"> (a) annual review under condition 4 above; (b) incident report under condition 7 below; (c) audit report under condition 9 below; and (d) any modifications to this approval, <p>the Proponent must review, and if necessary revise, the strategies, plans, and programs required under this approval to the satisfaction of the Secretary.</p> <p>The Proponent must notify the Department in writing of any such review being undertaken. Where this review leads to revisions in any such document, then within 6 weeks of the review the revised document must be submitted for the approval of the Secretary.</p> <p><i>Note: This is to ensure the strategies, plans and programs are updated on a regular basis, and incorporate any recommended measures to improve the environmental performance of the project.</i></p>	While a letter verifying that management plans had been reviewed following submission of the 2021-2022 Annual Review, evidence that the letter had been submitted to DPE was not available.	Metromix should ensure that, when management plans are reviewed, the Department is notified in writing of the outcome of the reviews.
NC-09	EPL M2.3	<p>Water and/ or Land Monitoring Requirements</p> <p>Point 4</p>	No sample was collected from EPA Point 4 in	Metromix should ensure that, where a change in personnel occurs, a thorough handover is conducted to ensure the

Independent Environmental Audit – Metromix Teralba Quarry

Commercial in Confidence

Issue No.	Condition	Requirement					Issue sighted	Recommendation
		Pollutant	Unit of Measure	Frequency	Sampling Method			
		Electrical conductivity	microsiemens per centimetre	Monthly	Grab sample		November 2020 following a change of personnel.	new worker understands all requirements of the role.
		Oil and Grease	milligrams per litre	Monthly	Grab sample			
		pH	pH	Monthly	Grab sample			
		Total suspended solids	milligrams per litre	Monthly	Grab sample			
NC-10	G2.2	The licensee is to inform the EPA in writing of the appointment of any subsequent contact persons, or changes to the person's contact details as soon as practicable and in any event within fourteen days of the appointment or change.					<p>New Quarry Manager commenced work in April 2022.</p> <p>The EPA had not been notified within 14 days.</p>	Metromix should ensure that, the EPA is informed in writing of the appointment of any new contact persons, or changes to the person's contact details as soon as practicable and in any event within fourteen days of the appointment or change.

4.2 Opportunities for Improvement

The following opportunities for improvement are presented for consideration by Metromix:

- Metromix may consider updating the project website to enable improve the layout and provide easier access to documentation.
- Metromix may consider updating the Blast Management to clarify that Lake Macquarie City Council require 7 days notice of blasts within 500m of Rhondda Road.
- Although not a compliance matter specified in the Heritage Management Plan, it is recommended that Metromix finalise arrangements for reburial of the identified Aboriginal artefacts as soon as practical.

4.3 Areas of compliance

All other relevant conditions audited were found to be either compliant or not triggered. Refer to the audit checklist provided as an attachment for full details of compliance.

5 CONCLUSIONS

Metromix had developed and generally implemented management plans and associated documentation to address the requirements of the conditions of consent.

While compliance with aspects of the conditions of the project approval and management plans was found, ten non-compliances were raised where compliance with requirements of the conditions of consent, EPL, WAL, Statement of Commitments or management plans prepared for the site was not demonstrated.

Metromix should ensure that actions are identified and implemented to address the findings contained within this audit to enable compliance with all obligations and ensure environmental impacts of the developments are appropriately managed.

ATTACHMENTS

- ✓ **Substantive Changes**
- ✓ **Auditor CV**
- ✓ **Audit Checklists**

CIRCULATION

- ✓ **Metromix**

a. Substantive Changes.

No substantive changes were made to the draft audit report.

Appendix A. - Previous Audit Findings

Issue No.	Condition	Requirement	Issue sighted	Metromix Response	2023 Status
01	Schedule 2-2	The Proponent, in acting on this approval, must carry out the project: (a) in compliance with the conditions of this approval; (b) in accordance with the statement of commitments; and; in accordance with all written directions of the Secretary.	Based on the number of non-compliant items the project is non-compliant to the requirement of Schedule 2-2(a). Recommendation: It is recommended that all non-compliances identified are addressed and closed out. Consider implementing a compliance tracing process to ensure compliances with the Conditions of Approval are met.	Noted	Further non-compliances were identified during the current audit. Refer new non-conformance NC-01.
02	Schedule 3-18 EPL 536 M2.2 SoC 11.18	Operating Conditions The Proponent must: (a) implement best management practice to minimise the dust emissions of the project; (b) regularly assess air quality monitoring data and relocate, modify, and/or stop operations on site as may be required to ensure compliance with the relevant conditions of this approval, (c) minimise the air quality impacts of the project during adverse meteorological conditions and extraordinary events (see Note d to Tables 5-7 above); (d) minimise any visible off-site air pollution; (e) minimise surface disturbance of the site and undertake progressive rehabilitation of the site; and monitor and report on compliance with the relevant air quality conditions in this approval, to the satisfaction of the Secretary.	Dust deposition monitoring results was not available for the dust gauge at EPL04 in January 2019. Access to the property where dust gauge EPL04 was sited was denied by the resident. As a result, no monitoring data was available for EPL04 for January 2019. Recommendation: The Dust gauge was relocated to an alternative location in January 2019. No further action required.	It is acknowledged that strict compliance with this condition was not possible due to the one-month lapse as Metromix sought permission from an alternate landowner for locating the dust gauge. Metromix considers this issue is resolved and notes continued compliance with the deposited dust criteria.	No further action required. Closed

N-03	Schedule 3-21 EPL 536 M4.1	Meteorological monitoring For the life of the project, the Proponent must ensure that there is a suitable meteorological station operating in the vicinity of the site that: <ul style="list-style-type: none"> complies with the requirements in the Approved Methods for Sampling of Air Pollutants in New South Wales guideline; and is capable of continuous real-time measurement of temperature lapse rate, in accordance with the NSW Industrial Noise Policy, or as otherwise approved by EPA.	Weather monitoring data was not available for the period 28/07/18 to 10/08/18 due to weather station breakdown. Recommendation: The weather station has been repaired (10/08/18) and monitoring has continued. No further action required.	Metromix considers this issue is resolved. While every effort is made to ensure the continuous monitoring of weather conditions, it is noted that there are unfortunately unforeseeable instances where this will not be possible.	No further action required. Closed
N-04	Schedule 3-61	Rehabilitation Bond Within 6 months of the approval of the Biodiversity and Rehabilitation Management Plan, the Proponent must lodge a Rehabilitation Bond with the Department to ensure that the rehabilitation of the site is implemented in accordance with the performance and completion criteria set out in the Biodiversity and Rehabilitation Management Plan and the relevant conditions of approval. The sum of the bond must be determined by: <ol style="list-style-type: none"> 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 employing a suitably qualified quantity surveyor or other expert to verify the calculated costs to the satisfaction of the Secretary. The calculation of the Rehabilitation Bond must be submitted to the Department for approval at least 2 months prior to the lodgement of the bond.	The revised rehabilitation bond had not been lodged within six months of approval of the Biodiversity and Rehabilitation Management Plan. Recommendation: Metromix should ensure that the calculation of the Rehabilitation Bond is completed and submitted to the Department for approval and the bond lodged with the Department. It has been confirmed that the Rehabilitation Bond was submitted on 17 February 2020.	An estimate of the quantum of the Rehabilitation Bond for the Quarry was submitted to DPIE for approval on 17 February 2020. It is acknowledged that there was a period where the Rehabilitation Bond was not current. Metromix currently has a bank guarantee held by DPIE for rehabilitation of the Teralba Quarry. That bond is for a value of approximately \$1.6 million. Therefore, during the period when the bond was not current there was a bond that may have been called upon by DPIE. The current estimate is for \$1.7 million which takes into account the commencement of Stage 2 of operations as well as the successful rehabilitation of some former silt cells.	No further action required. Closed

N-05	Schedule 5-5	<p>Revision of Strategies, Plans & Programs</p> <p>Within 3 months of the submission of an:</p> <ul style="list-style-type: none"> (a) annual review under condition 4 above; (b) incident report under condition 7 below; (c) audit report under condition 9 below; and (d) any modifications to this approval, <p>the Proponent must review, and if necessary revise, the strategies, plans, and programs required under this approval to the satisfaction of the Secretary.</p> <p>The Proponent must notify the Department in writing of any such review being undertaken. Where this review leads to revisions in any such document, then within 6 weeks of the review the revised document must be submitted for the approval of the Secretary.</p> <p><i>Note: This is to ensure the strategies, plans and programs are updated on a regular basis, and incorporate any recommended measures to improve the environmental performance of the project.</i></p>	<p>All management plans had not been submitted to the Secretary within 3 months of modification of the conditions of approval.</p> <p>The Air Quality Management Plan, Blast Management Plan, Traffic Management Plan, Water Management Plan and Environmental Management Strategy had not been submitted within the required timeframe.</p> <p>Recommendation:</p> <p>Metromix should ensure that all management plans are reviewed and, where revised, submitted to the Secretary within 6 weeks of the review.</p>	<p>All management plans for the Teralba Quarry have been submitted and approved by DPIE.</p> <p>It is noted that lengthy delays were experienced in receiving feedback from Lake Macquarie City Council due to staff change over during the update of management plans for the Quarry.</p>	<p>Evidence was sighted to show that management plans had been reviewed, and where require updated, in accordance with Schedule 5-5.</p> <p>Closed</p>
N-06	Schedule 5-10	<p>Within 3 months of commissioning this audit, or as otherwise agreed by the Secretary, the Proponent must submit a copy of the audit report to the Secretary, together with its response to any recommendations contained in the audit report.</p>	<p>While the previous audit report had been submitted within the required timeframe, the response to recommendations identified in the audit report had not been provided.</p> <p>Recommendation:</p> <p>Metromix should ensure that a response to recommendations contained within this report is documented and submitted to the Secretary with the audit report.</p>	<p>This response is to be submitted with the audit report in compliance with Condition 10 of Schedule 5 of PA 10_0183.</p>	<p>The 2020 audit report, including Metromix response to audit findings, had been submitted within the required timeframe.</p> <p>Closed</p>

N-07	EPL 536 M5.2	<p>The record (complaints) must include details of the following:</p> <ul style="list-style-type: none"> (a) the date and time of the complaint; (b) the method by which the complaint was made; (c) any personal details of the complainant which were provided by the complainant or, if no such details were provided, a note to that effect; (d) the nature of the complaint; (e) the action taken by the licensee in relation to the complaint, including any follow-up contact with the complainant; and <p>if no action was taken by the licensee, the reasons why no action was taken.</p>	<p>Records of complaints did not always include the information as required by EPL 536 M5.2.</p> <p>Record for complaint received April 2018 did not include date and time of complaint, or details of the complainant.</p> <p>Recommendation:</p> <p>Metromix should ensure that records of complaints include all information required by EPL 536 M5.2.</p> <p>It is noted that a complaint form has been documented which includes prompts for required information.</p>	<p>Metromix use an automated system (Cintellate) for recording complaints, with this record accompanied by an electronic record that is placed on the Metromix website. A more detailed summary of the complaint received, and actions taken will be placed on the Metromix website to ensure compliance with Condition M5.2 of EPL 536.</p>	<p>The complaints register has been updated to include facility for recording all required information.</p> <p>Closed</p>
N-08	EPL 536 R4.2	<p>A noise compliance assessment report must be submitted to the EPA within 30 days of the completion of the bi-annual noise monitoring. The assessment must be prepared by a suitably qualified and experienced acoustical consultant and include:</p> <ul style="list-style-type: none"> (a) an assessment of compliance with noise limits presented in the Noise Limits table; and <p>an outline of any management actions taken within the monitoring period to address any exceedances of the limits contained in the Noise Limits table</p>	<p>Noise assessment reports have not always been submitted within 30 days of the completion of the bi-annual noise monitoring to the EPA. The noise compliance assessment reports had not been provided to the EPA for two monitoring rounds conducted during 2019.</p> <p>Recommendation:</p> <p>Metromix should ensure that noise compliance reports are obtained promptly from the noise consultant and submitted to the EPA within 30 days of the noise monitoring.</p>	<p>Metromix have reissued instructions to its noise monitoring consultants to ensure that compliance with the reporting requirements is satisfied.</p> <p>Noise monitoring reports that were not provided to the EPA have now been provided and will be reported in the Annual Review.</p> <p>It is noted that Metromix has continued to maintain compliance with the noise-related criteria of PA 10_0183 and EPL 536. In fact, most monitoring records that the Quarry is inaudible from the closest privately-owned residences.</p>	<p>Monitoring conducted 12-18/08/2020 – Report to EPA 15/09/2020</p> <p>Noise monitoring 2-3/11/2021. Report to EPA 9/11/2021</p> <p>Noise monitoring 5-8/09/2022 Report to EPA 15/09/2022.</p> <p>Noise Reports for the period covered by the current audit have been provided to the EPA within the required timeframe.</p> <p>closed</p>

N-09	EPL 536 G2.2	The licensee is to inform the EPA in writing of the appointment of any subsequent contact persons, or changes to the person's contact details as soon as practicable and in any event within fourteen days of the appointment or change.	<p>The EPA had not been informed in writing of the change in contact person for the Quarry after this change in January 2019.</p> <p>While the Quarry Manager had been in contact with the EPA and the EPA was aware of the change to quarry management, no formal notification to the EPA for the change in contact had been issued.</p> <p>Recommendation: Metromix have formally notified the EPA in writing of the change in the site contact person (5/02/2020). No further action required.</p>	<p>Metromix liaise with officers from the EPA on a regular basis. The Quarry Manager has also recently been providing information to the EPA regarding a proposed variation to EPL 536.</p> <p>It is therefore considered that the EPA is aware of the change to the responsible person for the Quarry that occurred during the reporting period. It is acknowledged that this change was not notified in writing. Correspondence formally notifying the EPA of the responsible person for EPL 536 was provided to the EPA on 5 February 2020.</p>	<p>Metromix had not informed the EPA of a change in the site contact person within 14 days.</p> <p>Refer new Non-compliance NC-10.</p>
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Appendix B. – Auditor Approval



Department of Planning and Environment

Mr Mo Yunusa
Quarry Manager
Metromix Teralba
150 RHONDDA ROAD
TERALBA New South Wales 2284

10/01/2023

Dear Mo Yunusa

Teralba Quarry - Auditor Endorsement Request (MP 10_0183)

I refer to your request (MP10_0183-PA-19) for the Secretary's approval of suitably qualified persons to prepare the 2023 Independent Environmental Audit for the Metromix Teralba Quarry (the project), as required by Schedule 5 Condition 9 of Project Approval 10_0183 (the approval).

The Department of Planning and Environment (the department) has reviewed the nomination and information you have provided and is satisfied that the expert is suitably qualified and experienced. Consequently, I can advise that the Secretary approves the appointment of:

- Mr James Hart – Lead Auditor

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

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

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

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

Should you wish to discuss the matter further, please contact James Epstein, Senior Compliance Officer, on (02) 6575 3419 or email compliance@planning.nsw.gov.au

Yours sincerely

A handwritten signature in black ink that reads "H Watters".

Heidi Watters
Team Leader Northern
Compliance

As nominee of the Planning Secretary

Appendix C. – Audit Tables

b. Audit Checklist – Development Consent PA 10-0183

JHC Ref No	Cond. No.	Condition	Evidence	Finding and Recommendations	Compliance rating	Issue #
SCHEDULE 2 – ADMINISTRATIVE CONDITIONS						
OBLIGATION TO MINIMISE HARM TO THE ENVIRONMENT						
1.	1	In addition to meeting the specific performance criteria established under this approval, the Proponent must implement all reasonable and feasible measures to prevent and/or minimise any material harm to the environment that may result from the construction, operation, or rehabilitation of the project.		No material harm to the environment as a result of the operations had been reported.	Compliant	
TERMS OF APPROVAL						
2.	2	The Proponent, in acting on this approval, must carry out the project: <ul style="list-style-type: none"> (a) in compliance with the conditions of this approval; (b) in accordance with the statement of commitments; and; (c) in accordance with all written directions of the Secretary. 		Based on the number of non-compliant items the project is non-compliant to the requirement of Schedule 2-2(a). Recommendation: It is recommended that all non-compliances identified are addressed and closed out. Consider implementing a compliance tracing process to ensure compliances with the Conditions of Approval are met.	Not Compliant	NC-01

JHC Ref No	Cond. No.	Condition	Evidence	Finding and Recommendations	Compliance rating	Issue #
3.	2A	<p>The Proponent, in acting on this approval, must carry out the project:</p> <ul style="list-style-type: none"> (a) generally in accordance with the EA; (b) generally in accordance with the EA (Mod 1); and (c) generally in accordance with the project layout. <p>Notes:</p> <ul style="list-style-type: none"> • <i>The general layout of the project is shown in Appendix 1 and Appendix 2.</i> • <i>The statement of commitments is reproduced in Appendix 3.</i> 		Results of this audit show that the development has been carried out in general accordance with requirements.	Compliant	
4.	3	If there is any inconsistency between the documents identified in condition 2A, the most recent document shall prevail to the extent of the inconsistency. However, the conditions of this approval shall prevail to the extent of any inconsistency.		No inconsistencies have been identified	Not Triggered	
5.	4	<p>Consistent with the requirements of this approval, the Secretary may make written directions to the Proponent in relation to:</p> <ul style="list-style-type: none"> (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 approval, including those that are required to be, and have been, approved by the Secretary; and (b) the implementation of any actions or measures contained in any such document referred to in (a) above. 		<p>Management plans have been updated submitted to DPE for comment and approval.</p> <p>Where comments have been received from DPE, these comments have been addressed and documentation resubmitted</p> <p>No written directions have been received.</p>	Compliant	

JHC Ref No	Cond. No.	Condition	Evidence	Finding and Recommendations	Compliance rating	Issue #
6.	4A	<p>The Proponent must comply with any reasonable requirement/s of the Secretary arising from the Department's assessment of:</p> <ul style="list-style-type: none"> (a) any strategies, plans, programs, reviews, audits, reports or correspondence submitted in accordance with this approval (including any stages of these documents); (b) any reviews, reports or audits commissioned by the Department regarding compliance with this approval; and (c) the implementation of any actions or measures contained in these documents. 		Management plans have been amended to address DPE comments.	Compliant	
COMPLIANCE						
7.	4B	The Proponent must ensure that all employees, contractors and sub-contractors are made aware of, and instructed to comply with, the conditions of this approval relevant to activities they carry out in respect of the project.	Rapid Induct records Metromix Quarry Employee/Contractor Teralba Site Induction	<p>All employees, contractors and sub-contractors undertake the site induction.</p> <p>Rapid Access used for maintaining induction records.</p>	Compliant	
LIMITS ON APPROVAL						
8.	5	<p>Quarrying Operations</p> <p>The Proponent may carry out quarrying operations on the site until 31 December 2038.</p> <p><i>Note: Under this approval, the Proponent is required to rehabilitate the site and carry out additional undertakings to the satisfaction of the Secretary. Consequently, this approval will continue to apply in all other respects other than the right to conduct quarrying operations until the rehabilitation of the site and those undertakings have been carried out to a satisfactory standard.</i></p>		<p>Current year 2023.</p> <p>Rehabilitation has been progressively undertaken.</p>	Compliant	

JHC Ref No	Cond. No.	Condition	Evidence	Finding and Recommendations	Compliance rating	Issue #
9.	6	Extractive Material Limits The Proponent must not carry out quarrying operations below 20 m AHD in the Southern Extension Area or below 24 m AHD in the Mid Pit Extraction and Northern Extension Areas. <i>Note: This condition does not apply to the construction of any bores approved by NOW or pollution and sediment control structures described in the EA.</i>	February 2021 Propeller survey.	Workings in southern area only. Current extraction depth – Propeller aero used to map site. Feb 2021 – 39.4m AHD Noted that survey shows depths of the pit has gone below 19m AHD as a result of collapsing historical underground workings. (Down to 18m AHD), not as a result of quarrying operations. Reported that areas below 20 m AHD will be filled to provide a final depth of 20 m AHD	Compliant	
10.	7.	The Proponent must not extract more than 1.2 million tonnes of extractive materials from the site in any calendar year.	Teralba Quarry Monthly truck Movement summaries – January 2020 to January 2023	2020 – 630 746t 2021 – 881,758t 2022 - 945 173t	Compliant	
11.	8	Extractive Material Transport The Proponent must not:	Monthly Truck Movement summaries – January 2020 to January 2023 Summary of Production data 2020, 2021 and 2022.	2020 sales – 608 390t 2021 sales – 721 114t 2022 sales – ~869 009t Records show no exceedance of truck movement limits for 2020, 2021 and 2022.	Compliant	
		(a) transport more than 1 million tonnes of quarry products from the site in any calendar year; or				
		(b) dispatch more than 326 laden trucks from the site on any day; or	Monthly truck Movement summaries – January 2020 to January 2023	Maximum trucks dispatched 246 on 22/08/2022	Compliant	
		(c) dispatch more than 241 laden trucks per day or 20 per hour westwards along Rhondda Road;	Monthly truck Movement summaries – January 2020 to January 2023	Maximum trucks dispatched westwards 211 on 30/10/2022. Trucks per hour did not exceed 20 (20 trucks recorded on multiple occasions)	Compliant	
		(d) dispatch more than 85 laden trucks per day or 8 per hour eastwards through Teralba;	Monthly truck Movement summaries – January 2020 to January 2023	Maximum trucks dispatched eastwards 72 on 16/02/2022. Trucks per hour did not exceed 8 (8 trucks recorded on multiple occasions)	Compliant	

JHC Ref No	Cond. No.	Condition	Evidence	Finding and Recommendations	Compliance rating	Issue #										
		(e) dispatch laden trucks for travel through Teralba between 6 pm and 6 am; or	Monthly truck Movement summaries – January 2020 to January 2023	Records show no dispatch laden trucks for travel through Teralba between 6 pm and 6 am.	Compliant											
		(f) receive unladen trucks via the Railway Street entrance between 6 pm and 7 am.	Metromix Teralba Quarry Code of Conduct for Truck Drivers	It was reported that unladen trucks are not accepted at The Railway Street entrance. The Metromix Teralba Quarry Code of Conduct for Truck Drivers states that all unladen trucks must enter the Teralba Quarry via the top gate off Rhondda Road. Travel routs and approved hours are included in the induction	Compliant											
12.	9.	<p>The Proponent must limit the total hourly truck dispatch rates from the site to the levels shown in Table 1.</p> <p><i>Table 1 – Truck Dispatch Hours</i></p> <table><tr><th>Dispatch Period</th><th>Maximum Hourly Dispatch Rate</th></tr><tr><td>6:00 am – 7:00 am</td><td>Up to 28 loaded trucks</td></tr><tr><td>7:00 am – 6:00 pm</td><td>Up to 20 loaded trucks</td></tr><tr><td>6:00 pm – 5:00 am</td><td>Up to 6 loaded trucks</td></tr><tr><td>5:00 am – 6:00 am</td><td>Up to 12 loaded trucks</td></tr></table> <p><i>Note:</i> Dispatch times and maximum hourly rates westwards along Rhondda Road or eastwards through Teralba are further limited by condition 8 above.</p>	Dispatch Period	Maximum Hourly Dispatch Rate	6:00 am – 7:00 am	Up to 28 loaded trucks	7:00 am – 6:00 pm	Up to 20 loaded trucks	6:00 pm – 5:00 am	Up to 6 loaded trucks	5:00 am – 6:00 am	Up to 12 loaded trucks	Monthly truck Movement summaries – January 2020 to January 2023	<p>Records of truck movements from the site maintained.</p> <p>Records identify the time period, maximum hourly truck movement for the period and direction of travel (west, east).</p> <p>Records show no exceedance of truck movement limits for 2020, 2021 and 2022.</p>	Compliant	
Dispatch Period	Maximum Hourly Dispatch Rate															
6:00 am – 7:00 am	Up to 28 loaded trucks															
7:00 am – 6:00 pm	Up to 20 loaded trucks															
6:00 pm – 5:00 am	Up to 6 loaded trucks															
5:00 am – 6:00 am	Up to 12 loaded trucks															
13.	10.	<p>Receival of Concrete, Virgin Excavated Natural Material and Excavated Natural Material</p> <p>The Proponent must not receive on site more than 120 tonnes of recycled concrete per day or stockpile more than 2,500 tonnes of concrete material on the site.</p>	Site interview	<p>No recycled concrete stored on site (Concrete received and stored on pug mill site, which is not part of this consent – separate EPL).</p> <p>No VENM and ENM has been imported to site.</p>	Compliant											

JHC Ref No	Cond. No.	Condition	Evidence	Finding and Recommendations	Compliance rating	Issue #
14.	11.	The Proponent must not receive on site more than 100,000 tonnes of virgin excavated natural material or excavated natural material in any calendar year.	Site interview	2020 – Nil imported 2021 – Nil imported 2022 — Nil imported	Compliant	
SURRENDER OF CONSENTS						
15.	12.	By the end of December 2013, or as otherwise agreed by the Secretary, the Proponent must surrender the development consent (DA 130/42) for existing operations on the site in accordance with Section 104A of the EP&A Act. <i>Note: The conditions or other requirements of this project approval do not prevent the continued carrying out of development which may be undertaken pursuant to DA 130/42, prior to the surrender of that consent.</i>	Independent Environmental Audit: Teralba Quarry Development Consent PA 10-0183, AQUAS, February 2020	Consent DA 130/42 was surrendered on 31 December 2013. Verified previous audit.	Compliant	
STRUCTURAL ADEQUACY						
16.	13.	The Proponent must ensure that any new buildings and structures, and any alterations, or additions to existing buildings and structures, are constructed: (a) in accordance with the relevant requirements of the BCA; and (b) to the satisfaction of the Subsidence Advisory NSW. <i>Notes:</i> <ul style="list-style-type: none"> Under Part 4A of the EP&A Act, the Proponent is required to obtain construction and occupation certificates for the proposed building works. Part 8 of the EP&A Regulation sets out the requirements for the certification of the project. Under Section 15 of the Mine Subsidence Compensation Act 1961 the Proponent is required to obtain approval from the Subsidence Advisory NSW for the construction, erection or alteration of any improvements on the site. 	Site Inspection Letter: RE PROPOSED RELOCATION OF AUSGRID 33kV & 11kV ASSETS AT 158 RHONDDA ROAD TERALBA; LOTS 1 & 2 DP 224037; TBA19-06605, Mine Subsidence Advisory NSW 3/12/2019. Ausgrid Asset Relocation Offer , Project No AN-11765, 16/01/2020.	No structures erected which require construction and occupation certificates. Approval for relocation of the power lines was obtained from Subsidence Advisory NSW. Relocated August 2020 by contractor approved by Ausgrid.	Not Triggered	

JHC Ref No	Cond. No.	Condition	Evidence	Finding and Recommendations	Compliance rating	Issue #
DEMOLITION						
17.	14.	The Proponent must ensure that all demolition work on site is carried out in accordance with AS 2601-2001: The Demolition of Structures, or its latest version.		No demolition has been undertaken since the previous audit.	Not Triggered	
PROTECTION OF PUBLIC INFRASTRUCTURE						
18.	15.	The Proponent must: (a) repair, or pay the full costs associated with repairing, any public infrastructure that is damaged by the project; and (b) relocate, or pay the full costs associated with relocating, any public infrastructure that needs to be relocated as a result of the project.	Letter: RE PROPOSED RELOCATION OF AUSGRID 33kV & 11kV ASSETS AT 158 RHONDDA ROAD TERALBA; LOTS 1 & 2 DP 224037; TBA19-06605, Mine Subsidence Advisory NSW 3/12/2019. Ausgrid Asset Relocation Offer , Project No AN-11765, 16/01/2020.	Metromix arranged and paid for the relocation of powerlines on site. No repairs to public infrastructure has been required.	Compliant	
PLANNING AGREEMENT						
19.	16.	Within 12 months of the date of this approval, unless otherwise agreed by the Secretary, the Proponent must enter into a planning agreement with the Council in accordance with Division 6 of Part 4 of the EP&A Act that provides for payment to the Council for road maintenance levies. The agreement must include provision for those matters set out in condition 17 below. If there is any dispute between the Proponent and Council relating to the preparation or implementation of the planning agreement, then either party may refer the matter to the Secretary for resolution.	LMCC Tax Invoice 258467 8/07/2020 LMCC Tax Invoice 267299 3/03/2021 LMCC Tax Invoice 271828 14/07/2021 LMCC Tax Invoice 283178 19/07/2022	Planning Agreement with Council for the payment of the 0.066/t/km plus GST was signed on 6 February 2017. Current rate 0.0861c/t/km. Records available to verify payment of levy.	Compliant	

JHC Ref No	Cond. No.	Condition	Evidence	Finding and Recommendations	Compliance rating	Issue #
ROAD MAINTENANCE						
20.	17.	During the life of the project, for each calendar year, the Proponent must pay Council \$0.066 per tonne per kilometre for every tonne of quarry products transported from the site on roads for which Council is liable for road maintenance funding. Each payment must be: (a) based on weighbridge records of the quantity of quarry products transported from the site;	LMCC Tax Invoice 258467 8/07/2020 LMCC Tax Invoice 267299 3/03/2021 LMCC Tax Invoice 271828 14/07/2021 LMCC Tax Invoice 283178 19/07/2022	Metromix consulted the Council and a Voluntary Planning Agreement was signed on 6 February 2017 in relation to the payment of the 0.066c per tonne per kilometre (/t/km) plus CPI for every tonne of quarry products transported from the Teralba Quarry site on roads where the Council is liable for road maintenance. Council are provided a summary of material transport and routes which is used by Council to calculate the appropriate contribution	Compliant	
		(b) paid by the date required by the invoice issued by Council; and	LMCC Tax Invoice 258467 8/07/2020 LMCC Tax Invoice 267299 3/03/2021 LMCC Tax Invoice 271828 14/07/2021 LMCC Tax Invoice 283178 19/07/2022			
		(c) increased over the life of the project in accordance with the CPI.	LMCC Tax Invoice 258467 8/07/2020 LMCC Tax Invoice 267299 3/03/2021 LMCC Tax Invoice 271828 14/07/2021 LMCC Tax Invoice 283178 19/07/2022	It was reported that Teralba Quarry provided LMCC with the latest Producer Price Index data from the ABS website to enable calculation of the applicable rate. Records show annual increase in rates (Current rate 0.0861c/t/km).		
OPERATION OF PLANT AND EQUIPMENT						
21.	18.	The Proponent must ensure that all plant and equipment used at the site is: (a) maintained in a proper and efficient condition; and (b) operated in a proper and efficient manner.	Maintenance Records Conveyors CV-01 to CV-15. W/O No 37065 Check and Clean Rollers Weekly Inspection of CV-01 24/10/2022. Crusher Plant CR-01, CR-02. CR-03 and Chutes inspections. Water Cart WC-001 Records.	Records of maintenance of plant and equipment available. Metromix use MEX for managing plant maintenance and servicing. Records reviewed for Front End Loader WL002, Excavator EX001.	Compliant	

JHC Ref No	Cond. No.	Condition	Evidence	Finding and Recommendations	Compliance rating	Issue #
			WC001 CCESS AND Egress Checklist Mobile plant 3 Monthly Inspection Checklist Mechanical Service Sheet WC001 30/12/2022. Komatsu Rigid Truck – RD-003 maintenance records Komatsu WL001 Loader maintenance records. – PM Service Report 24/09/2022.			
STAGED SUBMISSION OF ANY STRATEGY, PLAN OR PROGRAM						
22.	19.	With the approval of the Secretary, the Proponent may submit any strategy, plan or program required by this approval on a progressive basis. <i>Notes:</i> <ul style="list-style-type: none"> While any strategy, plan or program may be submitted on a progressive basis, the Proponent will need to ensure that the existing operations on site are covered by suitable strategies, plans or programs at all times; and If the submission of any strategy, plan or program is to be staged, then the relevant strategy, plan or program must clearly describe the specific stage to which the strategy, plan or program applies, the relationship of this stage to any future stages, and the trigger for updating the strategy, plan or program. 		All management plans have been prepared and approved by DPE.	Compliant	

JHC Ref No	Cond. No.	Condition	Evidence	Finding and Recommendations	Compliance rating	Issue #
PRODUCTION DATA						
23.	20.	<p>The Proponent must:</p> <ul style="list-style-type: none"> (a) provide annual quarry production data to DRG using the standard form for that purpose; and (b) include a copy of this data in the Annual Review (see condition 4 of Schedule 5). 	<p>Email to Mineral.Royalty@planning.nsw.gov.au 15/09/2020 and 1/10/2021</p> <p>Email from Resource Analyst 10/10/2022 advising the Department was in the process of moving the returns to an online portal. It is anticipated this will be available in late October.</p>	<p>Included as appendix 2 of Annual reviews.</p> <p>e.g.</p> <p>2019-2020 –submitted 15/09/2020.</p> <p>2020-2021 – submitted 1/10/2021.</p> <p>2021-2022 – Not submitted. Awaiting advice from the Resources Regulator re online reporting system.</p>	Compliant	

JHC Ref No	Cond. No.	Condition	Evidence	Finding and Recommendations	Compliance rating	Issue #
SCHEDULE 3 – ENVIRONMENTAL PERFORMANCE CONDITIONS						
IDENTIFICATION OF APPROVED LIMITS OF EXTRACTION						
24.	1.	<p>Prior to carrying out quarrying operations under this approval, the Proponent must:</p> <p>(a) engage a registered surveyor to mark out the boundaries of the approved limits of extraction within the Extraction Areas; and</p> <p>(b) submit a survey plan of these boundaries to the Secretary.</p>	Site Inspection	<p>The boundaries of the approved limits of extraction for the Teralba Quarry lease activities have been marked out by a registered surveyor and the boundaries marked with coloured poles for the various activity areas.</p> <p>Verified previous audit.</p> <p>Boundary markers were verified during the site inspection.</p>	Compliant	
25.	2.	<p>While ever quarrying operations are being carried out, the Proponent must ensure that these boundaries are clearly marked at all times in a permanent manner that allows operating staff and inspecting officers to clearly identify the limits of extraction within the Southern, Southern Extension, Mid Pit and Northern Extension Extraction Areas.</p>	Site inspection	<p>The boundaries of the approved limits of the Teralba Quarry lease activities have been marked with coloured poles for the various areas:</p> <ul style="list-style-type: none"> • White poles - Stage 1A, • Yellow poles – quarry extraction limits • Blue poles - Council Pugmill Area • Green poles – Downer <p>The posts specifically identify each of the active areas of works within the Teralba Quarry lease boundaries.</p> <p>Verified during site inspection.</p>	Compliant	

JHC Ref No	Cond. No.	Condition	Evidence	Finding and Recommendations	Compliance rating	Issue #										
EXTRACTION MANAGEMENT																
26.	3.	Operating Conditions The Proponent must ensure that: (a) the underlying historical coal workings within the Great Northern coal seam pose not greater than a negligible risk to the safety of quarry workers, including risks from sudden unplanned collapses, release of noxious gases or explosion of flammable gases; and (b) quarrying operations pose not greater than a negligible risk to the heating or combustion of the underlying historical coal workings within the Great Northern coal seam.	<div>Lower Level Extraction Plan Practical Application of Stand-off Distances:</div> <table><tr><th>Area</th><th>Stand-off Distance</th></tr><tr><td>No underground workings</td><td>Negligible risk, no stand-off distance</td></tr><tr><td>First workings only</td><td>12 metres</td></tr><tr><td>Pillar extraction only</td><td>12 metres</td></tr><tr><td>Floor stripping and some associated pillar extraction with a higher risk from workings up to 6m high</td><td>17.5 metres</td></tr></table>	Area	Stand-off Distance	No underground workings	Negligible risk, no stand-off distance	First workings only	12 metres	Pillar extraction only	12 metres	Floor stripping and some associated pillar extraction with a higher risk from workings up to 6m high	17.5 metres	<div>Lower Level Extraction Plan includes management measures implemented to ensure negligible risk.</div> <div>Noted that an area adjacent to the south western highwall in the lower level of the southern extraction area has been quarantined due to cavity exposed during blasting.</div> <div>Confirmed through drill logs and Propeller surveys.</div>	Compliant	
Area	Stand-off Distance															
No underground workings	Negligible risk, no stand-off distance															
First workings only	12 metres															
Pillar extraction only	12 metres															
Floor stripping and some associated pillar extraction with a higher risk from workings up to 6m high	17.5 metres															
27.	4.	Lower Level Extraction Management Plan The Proponent must prepare a Lower Level Extraction Plan for all extraction activities within 17.5 vertical metres of historical coal workings within the Great Northern coal seam, to the satisfaction of the Secretary. This plan must: (a) be submitted for approval to the Secretary prior to undertaking any such quarrying operations and within 12 months of the date of this approval;	<div>Lower Level Extraction Management Plan, TER SHE 4.8 – 012, September 2016</div> <div>Teralba Quarry – Independent Environmental Audit, Trevor Brown and Assoc., – Feb 2017</div>	<div>Lower Level Extraction Management Plan TER SHE 4.8 – 012, September 2016 prepared. The plan has been developed in general accordance with the conditions of consent.</div> <div>The Lower Level Extraction Management Plan was approved by DPE on 23 November 2016.</div> <div>Appendix 2 – Spontaneous Combustion Management Plan updated 2021 The updated Lower Level Extraction Management Plan and associated Spontaneous Combustion Management Plan were under review by the external Consultant Mining Operation Services.</div>	Compliant											

JHC Ref No	Cond. No.	Condition	Evidence	Finding and Recommendations	Compliance rating	Issue #
		(b) be prepared by suitably qualified persons approved by the Secretary;	Lower Level Extraction Management Plan, TER SHE 4.8 – 012, September 2016	The Lower Level Extraction Management Plan was prepared by Mining Operation Services (MOS) and G E Holt & Associates (GHA) on the Teralba Quarry, particularly with regard to drill, blast and extraction processes above under-ground workings, and management of spontaneous combustion and gas hazards.		
		(c) provide for the achievement of the measures set out in condition 3 above;	Lower Level Extraction Management Plan, TER SHE 4.8 – 012, September 2016	The Lower Level Extraction Management Plan includes the procedures to achieve the measures set out in condition 3.		
		(d) describe the measures that would be implemented to ensure: <ul style="list-style-type: none"> • best management practice quarrying operations are being employed on site; • individual responsibilities of workers, contractors and management are detailed and understood; and • compliance with the relevant conditions of this approval; 	Lower Level Extraction Management Plan, TER SHE 4.8 – 012, September 2016	The Lower Level Extraction Management Plan addresses best management practice quarrying operations. Section 6 describes responsibilities of workers, contractors and management are described and compliance with the relevant conditions of this approval outlined in section 4;		
		(e) include a Spontaneous Combustion Management Plan, which has been prepared in consultation with DRG and Oceanic Coal Pty Ltd, to manage the potential risks and impacts of spontaneous combustion or heating of coal, and which: <ul style="list-style-type: none"> • includes a detailed assessment, of the risks of spontaneous combustion and subsurface heating for each of the existing and proposed Extraction Areas; • clearly identifies responsibilities to address management of spontaneous combustion and subsurface heating risks, for both day to day operations and long term management; and • includes appropriate short and long term contingency plans. 	Underground Workings Collapse and Spontaneous Combustion Management Plan, Ver 02, 4 October 2021.	The Lower Level Extraction Management Plan Appendix One Underground Workings Collapse and Spontaneous Combustion Management Plan, <ul style="list-style-type: none"> • Appendix 1 - Risk Assessment • Section 8 – Site Responses/ Responsibilities • Section 7 Spontaneous Combustion Control 		

JHC Ref No	Cond. No.	Condition	Evidence	Finding and Recommendations	Compliance rating	Issue #																																									
		The Proponent must implement the plan as approved by the Secretary.		Requirements of the LLEMP have been implemented. No no-conformances were identified in relation to implementation of the LLEMP. No spontaneous combustions has occurred during the period covered by the current audit.																																											
NOISE																																															
28.	5.	<p>Noise Criteria</p> <p>The Proponent must ensure that the noise generated by the project does not exceed the criteria in Table 2 at any residence on privately-owned land.</p> <p><i>Table 2: Noise criteria dB(A)</i></p> <table><tr><th rowspan="2">Location</th><th>Day Shoulder 6 - 7 am</th><th>Day 7 am – 6 pm</th><th>Evening 6 – 10 pm</th><th colspan="2">Night 10 pm – 6 am</th></tr><tr><th>L_{Aeq}(15 min)</th><th>L_{Aeq}(15 min)</th><th>L_{Aeq}(15 min)</th><th>L_{Aeq}(15 min)</th><th>L_{A1}(1 min)</th></tr><tr><td>A</td><td>38</td><td>38</td><td>37</td><td>35</td><td>45</td></tr><tr><td>B</td><td>42</td><td>46</td><td>36</td><td>35</td><td>45</td></tr><tr><td>C</td><td>42</td><td>42</td><td>35</td><td>35</td><td>45</td></tr><tr><td>D, E, G, H, I</td><td>35</td><td>35</td><td>35</td><td>35</td><td>45</td></tr><tr><td>F</td><td>37</td><td>38</td><td>38</td><td>35</td><td>45</td></tr></table> <p><i>Notes:</i></p> <ul style="list-style-type: none">Receiver locations are shown in Figure 2 Appendix 1.Noise generated by the project is to be measured in accordance with the relevant requirements and exemptions (including certain meteorological conditions) of the NSW Industrial Noise Policy. <p>However, these criteria do not apply if the Proponent has a written agreement with the relevant landowner to exceed the criteria, and the Proponent has advised the Department in writing of the terms of this agreement.</p>	Location	Day Shoulder 6 - 7 am	Day 7 am – 6 pm	Evening 6 – 10 pm	Night 10 pm – 6 am		L _{Aeq} (15 min)	L _{Aeq} (15 min)	L _{Aeq} (15 min)	L _{Aeq} (15 min)	L _{A1} (1 min)	A	38	38	37	35	45	B	42	46	36	35	45	C	42	42	35	35	45	D, E, G, H, I	35	35	35	35	45	F	37	38	38	35	45	<p>August 2020 Noise Monitoring Report – Teralba Quarry, Spectrum Acoustics</p> <p>August 2021 Noise Monitoring Report – Teralba Quarry, Spectrum Acoustics</p> <p>November 2021 Noise Monitoring Report – Teralba Quarry, Spectrum Acoustics</p> <p>September 2022 Noise Monitoring Report – Teralba Quarry, Spectrum Acoustics</p>	<p>Noise exceedances at two locations (D, E) on 16 August 2021.</p> <p>Additional noise monitoring conducted November 2021 following implementation of additional noise management measures. Results of this noise survey showed management measures were effective in reducing emitted noise levels.</p> <p>Recommendation:</p> <p>Where significant changes to quarry operations are planned, the potential noise impact of the planned changes should be reviewed to ensure that the changes do not result in noise level exceedances.</p>	Not Compliant	NC-02
Location	Day Shoulder 6 - 7 am	Day 7 am – 6 pm		Evening 6 – 10 pm	Night 10 pm – 6 am																																										
	L _{Aeq} (15 min)	L _{Aeq} (15 min)	L _{Aeq} (15 min)	L _{Aeq} (15 min)	L _{A1} (1 min)																																										
A	38	38	37	35	45																																										
B	42	46	36	35	45																																										
C	42	42	35	35	45																																										
D, E, G, H, I	35	35	35	35	45																																										
F	37	38	38	35	45																																										
29.	6.	<p>Hours of Operation</p> <p>The Proponent must comply with the operating hours set out in Table 3.</p> <p><i>Table 3: Operating Hours</i></p>	<p>Site interview</p> <p>Metromix Quarry Employee/Contractor Teralba Site Induction</p>	Hours of operation of the Teralba Quarry activities are in accordance with the limits in Project Approval Schedule 3 condition 6.	Compliant																																										

JHC Ref No	Cond. No.	Condition				Evidence	Finding and Recommendations	Compliance rating	Issue #														
		<table><tr><th>Day</th><th>Receipt of Concrete or Virgin Excavated Natural Material</th><th>Loading and Dispatch of Quarry Trucks</th><th>Extraction and Processing Operations</th></tr><tr><td>Monday – Friday</td><td>7 am to 5 pm</td><td>4 am Monday to midnight Friday</td><td>7 am to 7 pm</td></tr><tr><td>Saturday</td><td>7 am to 2 pm</td><td>midnight Friday to 6 pm Saturday</td><td>7 am to 2 pm</td></tr><tr><td>Sundays and Public Holidays</td><td>None</td><td>None</td><td>None</td></tr></table> <p><i>Note: Maintenance activities may occur at any time provided they are inaudible at privately-owned residences.</i></p>	Day	Receipt of Concrete or Virgin Excavated Natural Material	Loading and Dispatch of Quarry Trucks	Extraction and Processing Operations	Monday – Friday	7 am to 5 pm	4 am Monday to midnight Friday	7 am to 7 pm	Saturday	7 am to 2 pm	midnight Friday to 6 pm Saturday	7 am to 2 pm	Sundays and Public Holidays	None	None	None			Toolbox Talk @ 6.30am daily. Weighbridge closes 4.30pm hence no loads after 4.30pm.		
Day	Receipt of Concrete or Virgin Excavated Natural Material	Loading and Dispatch of Quarry Trucks	Extraction and Processing Operations																				
Monday – Friday	7 am to 5 pm	4 am Monday to midnight Friday	7 am to 7 pm																				
Saturday	7 am to 2 pm	midnight Friday to 6 pm Saturday	7 am to 2 pm																				
Sundays and Public Holidays	None	None	None																				
30.	7.	Operating Conditions The Proponent must: (a) implement best practice noise management to minimise the construction, operational and traffic noise of the project;				Noise Management Plan Rev 03, 10/12/2021. Plant maintenance and servicing records. Site inspection.	The Noise Management Plan section 8 outlines control measures to be implemented and describes the noise management practices to be implemented on the site: (a) Section 8.4 addresses noise management associated with Traffic Operations (vehicle noise emissions and beepers have been removed and vehicles and equipment fitted with low frequency ‘quackers’ to reduce noise emissions). Verified during site inspection. Noise exceedances at two locations (D, E) on 16 August 2021.	Not Compliant	NC-02														
		(b) minimise the noise impacts of the project during meteorological conditions when the noise limits in this approval do not apply;				Site interview Daily Compliance Monitoring 13/07/2020 to 17/07/2020	(b) Section 9.5 addresses operational noise management under adverse weather conditions. It was reported that assessing weather conditions was conducted as part of the quarry’s requirement to supervise operations. It was reported that operating conditions are altered during adverse weather conditions but not recorded. No noise complaints have been received.																

JHC Ref No	Cond. No.	Condition	Evidence	Finding and Recommendations	Compliance rating	Issue #
		(c) maintain the effectiveness of any noise suppression equipment on plant at all times and ensure defective plant is not used operationally until fully repaired;	Maintenance Records Conveyors CV-01 to CV-15. W/O No 37065 Check and Clean Rollers Weekly Inspection of CV-01 24/10/2022. Crusher Plant CR-01, CR-02. CR-03 and Chutes inspections. Water Cart WC-001 Records. WC001 Access and Egress Checklist Mobile plant 3 Monthly Inspection Checklist Mechanical Service Sheet WC001 30/12/2022. Komatsu Rigid Truck – RD-003 maintenance records Komatsu WL001 Loader maintenance records. – PM Service Report 24/09/2022.	c) Section 9.3 addresses effectiveness of noise suppression equipment on plant and maintenance to ensure defective plant is not operated until it is fully repaired. Records were available to verify plant and equipment had been maintained.		
		(d) regularly assess noise monitoring data and relocate, modify, and/or stop operations on site to ensure compliance with the relevant conditions of this approval; and to the satisfaction of the Secretary.	August 2020 Noise Monitoring Report – Teralba Quarry, Spectrum Acoustics August 2021 Noise Monitoring Report – Teralba Quarry, Spectrum Acoustics November 2021 Noise Monitoring Report – Teralba Quarry, Spectrum Acoustics	(d) Section 10 outlines Evaluation of Compliance. Noise emission exceedances identified 16/08/2021. Activities at the site were modified to ensure compliance with noise levels. Additional monitoring following modification to activities confirmed that actions undertaken were effective.		
31.	8.	Noise Management Plan The Proponent must prepare a Noise Management Plan for the project to the satisfaction of the Secretary. This plan must: (a) be submitted for approval to the Secretary within 4 months of the date of this approval;	Noise Management Plan Rev 03, 10/12/2021. August 2020 Noise Monitoring Report – Teralba Quarry, Spectrum Acoustics August 2021 Noise Monitoring Report – Teralba Quarry, Spectrum Acoustics	Noise management plan had been developed in accordance with the conditions of consent. The plan had been updated following modifications to work practices as a result of a noise exceedance in August 2021. Approved by DPI&E 14/01/2022. Contents verified previous audit.	Not Compliant	NC-02

JHC Ref No	Cond. No.	Condition	Evidence	Finding and Recommendations	Compliance rating	Issue #
			November 2021 Noise Monitoring Report – Teralba Quarry, Spectrum Acoustics	Noise exceedances at two locations (D, E) on 16 August 2021.		
		(b) describe the measures that would be implemented to ensure: <ul style="list-style-type: none"> best management practice is being employed on site; the noise impacts of the project are minimised during any meteorological conditions when the noise limits in this approval do not apply; and compliance with the relevant conditions of this approval; 	September 2022 Noise Monitoring Report – Teralba Quarry, Spectrum Acoustics	Section 9 Control Measures		
		(c) describe the proposed noise management system in detail;		Section 9 Control Measures		
		(d) include a monitoring program that: <ul style="list-style-type: none"> is capable of regularly evaluating the performance of the project, including noisy individual items of plant, such as haulage trucks and the bulldozer; includes a protocol for determining any exceedances of the relevant conditions in this approval at locations listed in Table 2; and evaluates and reports on the effectiveness of the noise management system on site. 		Section 10 Noise Monitoring Protocol and Evaluation Of Compliance. Noise monitoring has been conducted in accordance with the Noise Management plan.	Compliant	
		The Proponent must implement the plan as approved by the Secretary.		Noise mitigation measures have been implemented in accordance with the NMP. However, Noise emission exceedances were identified during monitoring on 16/08/2021. The NMP was updated to include additional controls to minimise noise from site activities.	Compliant	

JHC Ref No	Cond. No.	Condition	Evidence	Finding and Recommendations			Compliance rating	Issue #												
BLASTING																				
32.	9.	Blasting Criteria The Proponent must ensure that the blasting on the site does not cause exceedances of the criteria in Table 4. <i>Table 4: Blasting criteria</i> <table><tr><th>Location</th><th>Airblast overpressure (dB(Lin Peak))</th><th>Ground vibration (mm/s)</th><th>Allowable exceedance</th></tr><tr><td>Any residence on privately owned land, or any public infrastructure</td><td>120</td><td>10</td><td>0%</td></tr><tr><td></td><td>115</td><td>5</td><td>5% of the total number of blasts over a period of 12 months</td></tr></table> However, these criteria do not apply if the Proponent has a written agreement with the relevant owner or infrastructure provider/owner, and the Proponent has advised the Department in writing of the terms of this agreement.	Location	Airblast overpressure (dB(Lin Peak))	Ground vibration (mm/s)	Allowable exceedance	Any residence on privately owned land, or any public infrastructure	120	10	0%		115	5	5% of the total number of blasts over a period of 12 months	Blast Management Plan – Teralba Blast Design Parameters Quarry, Rev 6, 30 June 2020 Blast Monitoring Records January to December 2020 Blast Monitoring Records January to December 2021 Blast Monitoring Records January to December 2022	Year	Total No. of Blasts	No. of Exceedances of criteria	Not Compliant	NC-03
			Location	Airblast overpressure (dB(Lin Peak))	Ground vibration (mm/s)	Allowable exceedance														
			Any residence on privately owned land, or any public infrastructure	120	10	0%														
				115	5	5% of the total number of blasts over a period of 12 months														
1 Jan 2020 to 31 Dec 2020	21	3																		
1 Jan 2021 to 31 Dec 2021	26	0																		
1 Jan 2022 to 31 Dec 2022	25	0																		
				Blast monitoring conducted at locations 1 and 2. Airblast overpressure and ground vibration were not measured at Location 3 as no blasting was undertaken north of Rhondda Road during the reporting period. Recommendation: Subsequent to the blast exceedances, Metromix have implemented processes to manage blasts and ensure compliance with blast criteria. No further exceedances have occurred. No further action required.																
33.	10.	Blasting Hours The Proponent must only carry out blasting on site between 10 am and 4 pm Monday to Friday inclusive. No blasting is allowed on weekends or public holidays, or at any other time without the written approval of Secretary.	Blast Monitoring Records January to December 2020 Blast Monitoring Records January to December 2021 Blast Monitoring Records January to December 2022	Records of blast monitoring maintained by the blasting contractors (Orica and Maxam). Records show that blasting had occurred between 10 am and 4 pm Monday to Friday.			Compliant													

JHC Ref No	Cond. No.	Condition	Evidence	Finding and Recommendations	Compliance rating	Issue #
34.	11.	Blasting Frequency The Proponent must not carry out more than 1 blast a day on site, unless an additional blast is required following a blast misfire. <i>Note: A blast may involve a number of explosions within a short period, typically less than two minutes.</i>	Blast Monitoring Records January to December 2020 Blast Monitoring Records January to December 2021 Blast Monitoring Records January to December 2022	Records show that a maximum of one blast has occurred per day.	Compliant	
35.	12.	Property Inspections If the Proponent receives a written request from the owner of any privately-owned land within 500 m of proposed blasting for a property inspection to establish the baseline condition of any buildings and/or structures on his/her land, or to have a previous property inspection report updated, then within 2 months of receiving this request the Proponent must: <ul style="list-style-type: none"> (a) commission a suitably qualified, experienced and independent person, whose appointment has been approved by the Secretary, to: <ul style="list-style-type: none"> • establish the baseline condition of any buildings and/or structures on the land, or update the previous property inspection report; and • identify any measures that should be implemented to minimise the potential blasting impacts of the project on these buildings and/or structures; and (b) give the landowner a copy of the new or updated property inspection report. 	Blast Monitoring Records January to December 2020 Blast Monitoring Records January to December 2021 Blast Monitoring Records January to December 2022	No blasting has occurred within 500m of any buildings and/or structures on privately owned land. No written requests have been received from property owners.	Not Triggered	
36.	13.	Property Investigations If the owner of any privately-owned land claims that the buildings and/or structures on his/her land have been damaged as a result of blasting on site, then within 2 months of receiving this claim in writing from the landowner the Proponent must: <ul style="list-style-type: none"> (c) commission a suitably qualified, experienced and independent person, whose appointment 	Blast Monitoring Records January to December 2020 Blast Monitoring Records January to December 2021 Blast Monitoring Records January to December 2022	No blasting has occurred within 500m of any buildings and/or structures on privately owned land. No requests have been received from property owners.	Not Triggered	

JHC Ref No	Cond. No.	Condition	Evidence	Finding and Recommendations	Compliance rating	Issue #
		<p>is acceptable to both parties, to investigate the claim; and</p> <p>(d) give the landowner a copy of the property investigation report.</p> <p>If this independent property investigation confirms the landowner's claim, and both parties agree with these findings, then the Proponent must repair the damages to the satisfaction of the Secretary.</p> <p>If the Proponent or landowner disagrees with the findings of the independent property investigation, then either party may refer the matter to the Secretary for resolution.</p>				
37.	14.	<p>Operating Conditions</p> <p>During blasting operations, the Proponent must:</p> <p>(a) implement best management practice to:</p> <ul style="list-style-type: none"> protect the safety of people and livestock in the surrounding area; protect public or private infrastructure/property in the surrounding area from any damage; and minimise the dust and fume emissions of any blasting; and <p>(b) operate a suitable system to enable the public to get up-to-date information on the proposed blasting schedule on site,</p> <p>to the satisfaction of the Secretary.</p>	<p>Blast Management Plan</p> <p>a) section 7 Surrounding Residences and Potential Blast-Related Impacts and section 8 Control Measures for properties, safety, flyrock / dust / fume management, and air-blast overpressure;</p> <p>b) section 8.2 addresses notification of LMCC, neighbouring resource companies and community members.</p> <p>Email – Blasting Teralba Quarry – Sent 23/02/2022, 5/10/2021, 29/06/2021, 11/02/2022.</p>	<p>Blasting has occurred in accordance with the approved Blast Management Plan.</p> <p>No damage to people, property or livestock has occurred as a result of blasting operations.</p> <p>Email notifications are sent to LMCC, neighbouring resource companies (e.g. Centennial Coal, SNK) and nearby property owners the day prior to blasting, identifying the time of blasting.</p> <p>Content verified previous audit.</p>	Compliant	
38.	15.	<p>The Proponent must not undertake blasting within 500 metres of:</p> <p>(a) any public road without the approval of Council; or</p> <p>(b) any land outside the site not owned by the Proponent, unless:</p> <ul style="list-style-type: none"> the Proponent has a written agreement with the relevant landowner to allow blasting to be carried out closer to the land, and the Proponent has 	<p>Blast Management Plan</p> <p>DPE letter approving BMP 23/12/2020.</p>	<p>Two blasts has occurred within 500m of Rhondda road during the period 1 January 2020 to 31 December 2022. (approx. 410m from road).</p> <p>Notification to Council provided for each blast.</p>	Compliant	

JHC Ref No	Cond. No.	Condition	Evidence	Finding and Recommendations	Compliance rating	Issue #
		<p>advised the Department in writing of the terms of this agreement, or</p> <ul style="list-style-type: none"> the Proponent has: <ul style="list-style-type: none"> demonstrated to the satisfaction of the Secretary that the blasting can be carried out closer to the land without compromising the safety of the people or livestock on the land, or damaging the buildings and/or structures on the land; and updated the Blast Management Plan to include the specific measures that would be implemented while blasting is being carried out within 500 metres of the land. 		<p>Email from Council allowing blasting to occur within 500m of road is included in the updated Blast Management Plan (Appendix B).</p> <p>Correspondence has been submitted with the Blast Management Plan for approval.</p> <p>It has been identified that no road closures are required.</p>		
39.	16.	<p>Blast Management Plan</p> <p>The Proponent must prepare a Blast Management Plan for the project to the satisfaction of the Secretary. This plan must:</p> <p>(a) be submitted to the Secretary for approval within 4 months from the date of project approval;</p>	<p>Blast Management Plan Rev 06, 30 June 2020.</p> <p>Blast Monitoring Records January to December 2020</p> <p>Blast Monitoring Records January to December 2021</p> <p>Blast Monitoring Records January to December 2022</p>	<p>Blast Management Plan had been developed in accordance with the conditions of consent.</p> <p>Blast Management Plan updated 10.01.2020 and 30/06/2020 submitted to DPE for review.</p> <p>Approved by DPE 23/12/2020.</p>	Compliant	
		<p>(b) be prepared in consultation with the Council and interested members of the local community potentially affected by blasting operations;</p> <ul style="list-style-type: none"> describe the measures that would be implemented to ensure: best management practice is being employed; and compliance with the relevant conditions of this approval; 		<p>BMP Section 3.2 records consultation with the local community.</p> <p>BMP Appendix A records consultation with Lake Macquarie City Council.</p> <p>Management practices identified in Section 8 – Control Measures.</p>	Compliant	
		<p>(c) include a road closure management plan for blasting within 500 metres of a public road, that has been prepared in consultation with Council;</p>		<p>Section 7 Surrounding Residences and Potential Blast-Related Impacts.</p> <p>No road closures are required.</p>	Compliant	
		<p>(d) include a specific blast fume management protocol to demonstrate how emissions will be minimised</p>		<p>Section 8.4.2 Flyrock, Dust and Fume Management Measures</p>	Compliant	

JHC Ref No	Cond. No.	Condition	Evidence	Finding and Recommendations	Compliance rating	Issue #
		including risk management strategies if blast fumes are generated; and				
		(e) include a monitoring program for evaluating the performance of the project including: <ul style="list-style-type: none"> compliance with the applicable criteria; and minimising fume emissions from the site. 		Section 9 Monitoring 9.3 Fume Monitoring 9.4 Blast Monitoring Protocol	Compliant	
		The Proponent must implement the plan as approved by the Secretary.		Controls identified in the Blast Management Plan had been implemented. However, three exceedances of the blast overpressure criteria were recorded in January- March 2020. Blast exceedances were notified to DPE and EPA, and blast practices reviewed and modified to minimise the risk of further exceedances. BMP was updated and submitted to DPE for review. The updated BMP was approved on 23/12/2020. Recommendation: Subsequent to the blast exceedances, Metromix have implemented processes to manage blasts and ensure compliance with blast criteria. No further exceedances have occurred. No further action required.	Not Compliant	NC-03
AIR QUALITY						
40.	17.	Air Quality Criteria The Proponent must ensure that all reasonable and feasible avoidance and mitigation measures are employed so that particulate matter emissions generated by the project do not exceed the criteria in Tables 5 to 7 at any residence on privately-owned land, or on more than 25% of any privately-owned land.	Air Quality Management Plan, Rev 06, 9 December 2019. EPL 536 Monthly Monitoring Summary - December 2020	Air Quality Management Plan prepared and implemented. The following controls were verified during the site inspection: <ul style="list-style-type: none"> Use of water cart Use of water sprays on conveyors 	Compliant	

JHC Ref No	Cond. No.	Condition	Evidence	Finding and Recommendations	Compliance rating	Issue #																							
		<p><i>Table 5: Long-Term Impact Assessment Criteria for Particulate Matter</i></p> <table><tr><th>Pollutant</th><th>Averaging period</th><th>^d Criterion</th></tr><tr><td>Total suspended particulates (TSP)</td><td>Annual</td><td>^a 90 µg/m³</td></tr><tr><td>Particulate matter < 10 µm (PM₁₀)</td><td>Annual</td><td>^a 30 µg/m³</td></tr></table> <p><i>Table 6: Short Term Impact Assessment Criteria for Particulate Matter</i></p> <table><tr><th>Pollutant</th><th>Averaging period</th><th>^d Criterion</th></tr><tr><td>Particulate matter < 10 µm (PM₁₀)</td><td>24 hour</td><td>^a 50 µg/m³</td></tr></table> <p><i>Table 7: Long-Term Impact Assessment Criteria for Deposited Dust</i></p> <table><tr><th>Pollutant</th><th>Averaging period</th><th>Maximum increase in deposited dust level</th><th>Maximum total deposited dust level</th></tr><tr><td>^c Deposited dust</td><td>Annual</td><td>^b 2 g/m²/month</td><td>^a 4 g/m²/month</td></tr></table> <p><i>Notes to Tables 5-7:</i></p> <ul style="list-style-type: none">^a Total impact (i.e. incremental increase in concentrations due to the project plus background concentrations due to all other sources);^b Incremental impact (i.e. incremental increase in concentrations due to the project on its own);^c Deposited dust is to be assessed as insoluble solids as defined by Standards Australia, AS/NZS 3580.10.1:2003: Methods for Sampling and Analysis of Ambient Air - Determination of Particulate Matter - Deposited Matter - Gravimetric Method.^d Excludes extraordinary events such as bushfires, prescribed burning, dust storms, sea fog, fire incidents, illegal activities or any other activity agreed by the Secretary in consultation with EPA.	Pollutant	Averaging period	^d Criterion	Total suspended particulates (TSP)	Annual	^a 90 µg/m ³	Particulate matter < 10 µm (PM ₁₀)	Annual	^a 30 µg/m ³	Pollutant	Averaging period	^d Criterion	Particulate matter < 10 µm (PM ₁₀)	24 hour	^a 50 µg/m ³	Pollutant	Averaging period	Maximum increase in deposited dust level	Maximum total deposited dust level	^c Deposited dust	Annual	^b 2 g/m ² /month	^a 4 g/m ² /month	<p>EPL 536 Monthly Monitoring Summary - December 2021</p> <p>EPL 536 Monthly Monitoring Summary - December 2022</p> <p>Site Inspection</p>	<ul style="list-style-type: none">Progressive rehabilitation of exposed surfaces <p>Verified during site inspection.</p> <p>No exceedance of the dust deposition annual rolling average has been recorded.</p> <p>Two PM₁₀ levels which exceeded the 24 hour criterion (21/01/2022 and 22/01/2020). However, these exceedances were attributed to smoke form a bushfire in the region., not from Quarry operations.</p> <p>During the site inspection, no significant dust generation was noted.</p>		
Pollutant	Averaging period	^d Criterion																											
Total suspended particulates (TSP)	Annual	^a 90 µg/m ³																											
Particulate matter < 10 µm (PM ₁₀)	Annual	^a 30 µg/m ³																											
Pollutant	Averaging period	^d Criterion																											
Particulate matter < 10 µm (PM ₁₀)	24 hour	^a 50 µg/m ³																											
Pollutant	Averaging period	Maximum increase in deposited dust level	Maximum total deposited dust level																										
^c Deposited dust	Annual	^b 2 g/m ² /month	^a 4 g/m ² /month																										
41.	18.	Greenhouse Gas Emissions	Air Quality Management Plan, Rev 06, 9 December 2019.	The following actions had been implemented for minimising GHG emissions:	Compliant																								

JHC Ref No	Cond. No.	Condition	Evidence	Finding and Recommendations	Compliance rating	Issue #
		The Proponent must implement all reasonable and feasible measures to minimise the release of greenhouse gas emissions from the site.		<ul style="list-style-type: none"> Minimising diesel consumption Reducing truck idling time Maintaining optimal tyre pressure Optimising haul routes Optimising electricity usage <p>Noted that two new Front End loaders had been purchased which are Tier 4 final emissions certified.</p>		
42.	19.	Operating Conditions The Proponent must:	Teralba Quarry 2020 Annual Review Project Approval PA10_0183 Site Inspection	Company Directive – Closure of Quarry due to Dust Management issued by Metromix General Manager sets out actions, including ceasing operations in extreme conditions.	Compliant	
		(a) implement best management practice to minimise the dust emissions of the project;		Quarry manager monitors wind and dust conditions. Company Directive – Closure of Quarry due to Dust Management issued by Metromix General Manager sets out actions, including ceasing operations in extreme conditions.		
		(b) regularly assess air quality monitoring data and relocate, modify, and/or stop operations on site as may be required to ensure compliance with the relevant conditions of this approval,	Daily Compliance Monitoring 13-7.2020 to 24/07/2020	It was reported that assessing environmental conditions are done continuously as it is part of Metromix's requirement to supervise quarry activities. Altering operations due to environmental conditions happens when required but is not always recorded.		
		(c) minimise the air quality impacts of the project during adverse meteorological conditions and extraordinary events (see Note d to Tables 5-7 above);	Daily Compliance Monitoring 13-7.2020 to 24/07/2020. Dust Level Warning Event 12/02/2019 reporting closure of production due to dust warning from BOM.	Controls had been implemented to minimise dust emissions. No visible off-site air pollution was noted during the site inspection.		
		(d) minimise any visible off-site air pollution;	Daily Compliance Monitoring 13-7.2020 to 24/07/2020			

JHC Ref No	Cond. No.	Condition	Evidence	Finding and Recommendations	Compliance rating	Issue #
		(e) minimise surface disturbance of the site and undertake progressive rehabilitation of the site; and	Site Inspection	During the site inspection, it was noted that work areas were progressively cleared. Progressive rehabilitation of former work areas was verified.		
		monitor and report on compliance with the relevant air quality conditions in this approval, to the satisfaction of the Secretary.	Monthly Monitoring Summary February 2020 – January 2023	Monitoring conducted in accordance with the AQMP. Results included in the Monthly Monitoring Summary and published on the company website. PM ₁₀ exceedance January 2020 as the result of bushfire in the region. PM ₁₀ monitoring not conducted on 3/01/2020 and 9/01/2020 due to equipment failure. Recommendation: Metromix should ensure that monitoring is undertaken in accordance with the approved AQMP.	Not Compliant	NC-04
43.	20.	Air Quality Management Plan The Proponent must prepare an Air Quality Management Plan for the project to the satisfaction of the Secretary. This plan must: (a) be prepared in consultation with Council, and submitted for approval to the Secretary within 4 months of the date of this approval;	Air Quality Management Plan, Rev 06, 9 December 2019.	The Air Quality Management Plan had been developed in accordance with the conditions of consent and was approved by DP&I on 10 October 2013. The plan was updated (Rev 6, 9 December 2019) and approved by DPI&E 12 December 2019. Evidence of consultation included in Section 3 and Appendix 1.	Compliant	
		(b) describes the measures that would be implemented to ensure: <ul style="list-style-type: none">best management practice is employed;		Section 8 – Control Measures		

JHC Ref No	Cond. No.	Condition	Evidence	Finding and Recommendations	Compliance rating	Issue #
		<ul style="list-style-type: none"> the air quality impacts of the project are minimised during adverse meteorological conditions and extraordinary events; and compliance with the relevant conditions of this approval; 				
		(c) describes the proposed air quality management system; and The Proponent must implement the plan as approved by the Secretary.		Section 8 – Control Measures		
		(d) includes an air quality monitoring program that: <ul style="list-style-type: none"> is capable of evaluating the performance of the project; includes a protocol for determining any exceedances of the relevant conditions of approval; adequately supports the air quality management system; and evaluates and reports on the adequacy of the air quality management system. 		Section 9 – Air Quality Monitoring		
		The Proponent must implement the plan as approved by the Secretary.		Metromix has generally implemented the Air quality monitoring program. Controls to minimise air emissions verified during site inspection. Monitoring records do not identify any adverse impact on surrounding air quality. PM ₁₀ monitoring not conducted on 3/01/2020 and 9/01/2020 due to equipment failure. Recommendation: Metromix should ensure that monitoring is undertaken in accordance with the approved AQMP.	Not Compliant	NC-04

JHC Ref No	Cond. No.	Condition	Evidence	Finding and Recommendations	Compliance rating	Issue #
METEOROLOGICAL MONITORING						
44.	21.	<p>For the life of the project, the Proponent must ensure that there is a suitable meteorological station operating in the vicinity of the site that:</p> <ul style="list-style-type: none"> complies with the requirements in the <i>Approved Methods for Sampling of Air Pollutants in New South Wales</i> guideline; and is capable of continuous real-time measurement of temperature lapse rate, in accordance with the <i>NSW Industrial Noise Policy</i>, or as otherwise approved by EPA. 	Weather Station Service record 19/08/2022.	<p>Meteorological monitoring station compliant with EPL 536 Condition M5 is located in a satisfactory location on the Northern Extension Area and measures wind speed and direction, temperature, rainfall and relative humidity.</p> <p>The station results are relayed to the computer system in the Teralba Quarry office and is available for on site management of activities.</p>	Compliant	
SOIL & WATER						
45.	22.	<p><i>Note: The Proponent is required to obtain the necessary water licences for the project under the Water Act 1912 and/or the Water Management Act 2000.</i></p> <p>Water Supply</p> <p>The Proponent must ensure it has sufficient water during all stages of the project, and if necessary, adjust the scale of quarrying operations on site to match its available supply.</p>	Water Access Licence No. 40303	Metromix holds a Water Access Licence No. 40303 for 1407ML/annum for water pumped from Dam A (Groundwater dewatering).	Compliant	
46.	23.	<p>Surface Water Discharges</p> <p>The Proponent must ensure that all surface water discharges from the site comply with the discharge limits in any EPL which regulates water discharges from the site, or with section 120 of the POEO Act.</p>	<p>EPL 536 Monthly Monitoring Summary - December 2020</p> <p>EPL 536 Monthly Monitoring Summary - December 2021</p> <p>EPL 536 Monthly Monitoring Summary - December 2022</p>	<p>Surface water monitoring conducted in accordance with EPL 536.</p> <p>Surface water discharge from Dam B during very high rainfall events.</p> <p>3 exceedances of the TSS criterion were recorded at EPL Point 5 during discharge on 27, 28 and 29/07/2020. The exceedances were identified as resulting from significant rainfall.</p> <p>Recommendation</p> <p>Exceedances were the result of high rainfall exceeding the design capacity of the water management system and not the failure of water management controls</p>	Not Compliant	NC-05

JHC Ref No	Cond. No.	Condition	Evidence	Finding and Recommendations	Compliance rating	Issue #
				or deficiency in the water management system. No further action required.		
47.	24.	On-Site Sewage Management The Proponent must manage on-site sewage to the satisfaction of Council and the EPA.	Quarterly Maintenance Report 31/01/2023.	Aerated wastewater treatment system installed. Serviced regularly.	Compliant	
48.	25.	Storage of Chemicals & Petroleum Products The Proponent must ensure that all chemicals and/or petroleum products on site are held in appropriately bunded areas with impervious flooring and sufficient capacity to contain 110% of the largest container stored within the bund, and in accordance with Australian Standard AS1940-2004, <i>The Storage and Handling of Flammable and Combustible Liquids</i> . The flooring and bund(s) must be designed in accordance with the requirements of relevant Australian Standards; and <ul style="list-style-type: none"> DECC's <i>Storing and Handling Liquids: Environmental Protection – Participants Manual</i>. 	Site inspection	Diesel and oils are held in appropriately bunded areas with impervious flooring and sufficient capacity to contain 110% of the largest container stored within the bund (in accordance with AS1940-2004 and the DECC Storing and Handling Liquids: Environmental Protection Manual). Waste oil is placed in the covered bunded waste oil tank and the waste oil collected for recycling by Trans-Pacific.	Compliant	
49.	26.	Water Management Plan The Proponent must prepare a Water Management Plan for the project to the satisfaction of the Secretary. This plan must be prepared in consultation with Council and NOW by suitably qualified and experienced person/s whose appointment has been approved by the Secretary, and be submitted to the Secretary for approval within 6 months of the date of this approval and prior to any extraction activities within the Northern Extension area. In addition to the standard requirements for management plans (see condition 3 of Schedule 5), this plan must include a: <i>Note: The Secretary may require the Proponent to implement upgrades and other changes identified under paragraph (b), in accordance with condition 4 of Schedule 2.</i>	Water Management Plan Rev 05, 21 September 2020. Approval of Plan Strategy or Study, 23/12/2020	Water Management Plan had been developed in accordance with the conditions of consent. The WMP was updated and resubmitted to DPE and approved on 2 October 2018. Updated WMP approved 23/12/2020. Content verified previous audit.	Compliant	

JHC Ref No	Cond. No.	Condition	Evidence	Finding and Recommendations	Compliance rating	Issue #
		<p>(a) Site Water Balance that:</p> <ul style="list-style-type: none"> includes details of: <ul style="list-style-type: none"> sources and security of water supply, including contingency planning; water use on site; water management on site; reporting procedures, including comparisons of the site water balance each calendar year; and describes the measures that would be implemented to minimise clean water use on site; 	Water Management Plan Rev 05, 21 September 2020.	Section 7.4 site Water Balance	Compliant	
		<p>(b) Surface Water Management Plan, that includes:</p> <ul style="list-style-type: none"> detailed baseline data on surface water flows and quality in the watercourses that could be affected by the project; a detailed description of the surface water management system on site, including the: <ul style="list-style-type: none"> clean water diversion systems; erosion and sediment controls; and water storages; design objectives and performance criteria for proposed: <ul style="list-style-type: none"> erosion and sediment control structures; water storages; and control of water pollution from rehabilitated areas of the site; performance criteria, including trigger levels for investigating any potentially adverse impacts, for surface water quality of local watercourses and Lake Macquarie; a program to monitor: <ul style="list-style-type: none"> the effectiveness of the water management system; surface water flows and quality in local watercourses and Lake Macquarie; and ecosystem health of local watercourses and Lake Macquarie; 		<p>7.1.1 Surface Water Setting</p> <p>7.1.2 Quarry Surface Water Catchments</p> <p>7.1.3 Surface Water Collection and Storage</p> <p>7.1.4 Surface Water Flow Within the Quarry</p> <p>7.1.5 Surface Water Quality</p>	Compliant	


JHC Ref No	Cond. No.	Condition	Evidence	Finding and Recommendations	Compliance rating	Issue #
		<ul style="list-style-type: none"> a plan to respond to any exceedances of the performance criteria, and mitigate and/or offset any adverse surface water impacts of the project; and a detailed review the dirty water management system to: <ul style="list-style-type: none"> determine whether the capacity, integrity, retention time and management of the system are sufficient to ensure that water discharged from the site meets the performance criteria and propose any upgrades necessary to meet these criteria; assess appropriate options to improve storage and retention times in accordance with <i>The Blue Book - Managing Urban Stormwater (MUS): Soils and Construction (Landcom)</i>; and 				
		<p>(c) Groundwater Management Plan, that includes:</p> <ul style="list-style-type: none"> detailed baseline data on groundwater yield and quality in the area, that could be affected by the project; groundwater assessment criteria, including trigger levels for investigating any potentially adverse groundwater impacts; a program to monitor: <ul style="list-style-type: none"> surface water inflows into the groundwater system beneath the site; the impacts of the project on: <ul style="list-style-type: none"> the local coal seam aquifer; any groundwater bores on privately-owned land that could be affected by the project; and groundwater dependent ecosystems; and seepage/leachate from water storages or backfilled voids (including historical coal workings) on site; and a plan to respond to any exceedances of the groundwater assessment criteria; 	Water Management Plan Rev 05, 21 September 2020.	<p>7.2 GROUNDWATER SETTING</p> <p>7.2.1 Geology and Hydrogeology</p> <p>7.2.2 Neighbouring Groundwater Users</p> <p>7.2.3 Groundwater Quality</p> <p>9 Water Monitoring Program</p> <p>9.2. Surface Water Assessment Criteria</p> <p>11 – Corrective and Preventative Action</p>	Compliant	

JHC Ref No	Cond. No.	Condition	Evidence	Finding and Recommendations	Compliance rating	Issue #
		The Proponent must implement the plan as approved by the Secretary.		The Quarry has implemented water management controls and monitoring requirements in accordance with the Water Management plan.	Compliant	
VISUAL						
50.	27.	Protection of Ridgelines The Proponent must ensure that any clearing of visually prominent ridgeline vegetation is done in a progressive manner, so as to provide for a maximum of 6 months of future quarrying operations.	Annual monitoring	The Teralba Quarry plan for the clearance of ridgeline vegetation is cognisant of the visual impact associated with the ridgelines and progressive minimal clearing is practised in relation to the extension works to reduce potential impact. Annual monitoring conducted to assess visual amenity included in the Annual Review.	Compliant	
51.	28.	The Proponent must ensure that the: (a) eastern facing quarry benches of the Southern Extension are vegetated with native endemic understory species and trees as soon as practicable following the completion of extraction of those benches; and (b) revegetation of the quarry benches is managed to ensure that a tree canopy is regenerated, as soon as practicable, to be consistent with and visually integrated into the surrounding tree canopy, to the satisfaction of the Secretary.	Teralba Quarry 2020 Annual Review Project Approval PA10_0183 Teralba Quarry 2021 Annual Review	Works on the eastern faces of the Southern Extension Area commenced in December 2013 and extraction of resource in Stage 1A had occurred between February 2014 and February 2017. Stage 1A and 1B completed. Stage 1C awaiting relocation of electricity lines. Current extracting in Stage 2 of southern extension. Regeneration of the silt placement area and benches in Stage 1B has been undertaken. Visual monitoring shows no adverse impact.	Compliant	
52.	29.	Operating Conditions The Proponent must	Teralba Quarry 2020 Annual Review Project Approval PA10_0183 Teralba Quarry 2021 Annual Review	(a) Visual impacts of the quarry operations have been minimised for the Southern Extension Area works and there are no	Compliant	

JHC Ref No	Cond. No.	Condition	Evidence	Finding and Recommendations	Compliance rating	Issue #
		<p>(a) implement all reasonable and feasible measures to minimise the visual impacts and any off-site lighting impacts of the project; and</p> <p>(b) maintain and improve the effectiveness of the vegetated plantings on the quarry benches, over the life of the project.</p>	<p>Project Approval PA10_0183, March 2022.</p> <p>Site inspection</p>	<p>offsite lighting impacts from the current works;</p> <p>(b) Revegetation of the completed areas of the Teralba Quarry appear consistent with the surrounding vegetation communities and tree canopy.</p> <p>Monitoring of visual impacts was included in the Annual review.</p>		
53.	30.	<p>Advertising Signage</p> <p>The Proponent must not erect or display any advertising structure(s) or signs on the site without the written approval of the Secretary.</p> <p><i>Note: This condition does not require approval for any business identification, traffic management, and/or safety or environmental signs.</i></p>		<p>No advertising signage or structures have been erected on the Teralba Quarry site.</p> <p>Signs erected at the entrance to the Teralba Quarry site are only related to the company identification, safety and environment requirements and traffic signs.</p>	Compliant	
TRANSPORT						
54.	31.	<p>Intersection Investigation and Wheel Wash</p> <p>Within 6 months of the date of this approval the Proponent must:</p> <p>(a) commission a suitably qualified and experienced person endorsed by the Secretary to undertake a road safety audit report of the intersection of York Street and Anzac Parade in consultation with Council;</p> <p>(b) submit the report and any recommendations to the Secretary for approval; and</p> <p>(c) implement any recommendations of the road safety audit to upgrade the intersection of York Street and Anzac Parade to the satisfaction of Council.</p>	<p>Independent Environmental Audit: Teralba Quarry Development Consent PA 10-0183, AQUAS, February 2020</p>	Verified previous audit.	Compliant	
55.	32.	The Proponent must install truck wheel wash facilities within 6 months of the date of this approval at all quarry exits and following such installation, must ensure that all	Site inspection	Wheel wash facilities are installed at the quarry exits to Railway Street and Rhondda Road to ensure truck tyres and	Compliant	

JHC Ref No	Cond. No.	Condition	Evidence	Finding and Recommendations	Compliance rating	Issue #
		trucks have their tyres and vehicles cleaned of mud, dirt and dust prior to exiting the site, so as to avoid tracking dirt onto public roads, to the satisfaction of the Secretary.		under body are cleaned of mud, dirt and dust prior to exiting the site, to avoid tracking dirt onto public roads. Noted that controls had been implemented to prevent trucks bypassing the wheel wash.		
56.	33.	Operating Conditions The Proponent must construct the tunnel and conveyor under Rhondda Road to the satisfaction of Council.		Not constructed at this stage of the works.	Not Triggered	
57.	34.	Within 6 months of the date of this approval, the Proponent must cease transporting quarry material by truck between the quarry pits.		The northern pit has not been operational during the period of this audit.	Not Triggered	
58.	35.	The Proponent may only transport quarry products from the site on the designated Haulage Routes (see Appendix 4), except in circumstances where the final destination of the quarry products can only be accessed by other roads.	Transport Management plan, Appendix A - Drivers Code of Conduct.	Transport routes are communicated through the Drivers code of conduct. Truck movements are managed by the weighbridge, who directs the trucks to the most appropriate route.	Compliant	
59.	36.	The Proponent must ensure that all heavy vehicles: (a) do not exceed an on-site speed limit of 30 km per hour; (b) exiting the site to the east via the bottom gate (i.e. to Railway Street) during the Day Shoulder period do not exceed the on-site speed limit and minimise noise as far as reasonable between Railway Street and the end of the existing engineering works; and (c) entering or leaving the site have their loads covered.	Site inspection Fixed Plant Safety Map	On-site speed limits signposted 30km/hr. Shared zones 15kph Approaching weighbridge 5kph. All trucks leaving the site were observed to have their loads covered.	Compliant	
60.	37.	During the AM peak period and PM peak period, the Proponent must implement all reasonable and feasible measures to minimise project-related traffic delays and congestion at the intersection of Toronto and Five Islands Roads and along York Street, to the satisfaction of the Secretary.	Monthly Transport Tonnages Registers	Managed through control of truck movements eastwards. Records of truck movements show that vehicle movements were consistent with the approval conditions.	Compliant	

JHC Ref No	Cond. No.	Condition	Evidence	Finding and Recommendations	Compliance rating	Issue #
61.	38.	Only trucks owned by the Proponent, its shareholders or approved contractors and fitted with airbag suspension may transport quarry products from the site between 6 pm and 6 am.	Site Interview Drivers Code of Conduct Truck Sign in record (Rapid Access).	6 company owned trucks used for transporting before 6am. All other trucks are instructed to not come to site before 6am. Rapid Access provides details of site access.	Compliant	
62.	39.	Maintenance The Proponent must regularly maintain the pavement of the on-site road that connects to Railway Street to minimise dust generation and potholes, to the satisfaction of the Secretary.	Site inspection	The on-site road that connects to Railway Street (from the wheel wash to the exit gate) is paved. The road was observed to be well maintained.	Compliant	
63.	40.	Monitoring of Product Transport The Proponent must: (a) keep accurate records of: • the amount of quarry products transported from the site (monthly and annually); and • all laden truck movements from the site (hourly, daily, weekly, monthly and annually); and (b) publish these records on its website on a quarterly basis.	Monthly Transport Tonnages Registers	Quarry product records are maintained on Monthly Transport Tonnages Registers. The total extraction for the year is reported to DRE and included in the Annual Review. All laden truck movements from the site are recorded hourly, daily, weekly, monthly and annually. Records were available on the website and in annual reviews. (b) Truck movements recorded are placed on the Metromix website at least quarterly.	Compliant	
64.	41.	Road Signage Deleted				
65.	42.	Prior to carrying out quarrying operations under this approval, the Proponent must install "Trucks entering" warning signs 200 metres either side of the quarry entrances on public roads.		Trucks entering" warning signs have been erected 200 metres either side of the quarry entrance to Rhondda Road. Verified during site inspection.	Compliant	

JHC Ref No	Cond. No.	Condition	Evidence	Finding and Recommendations	Compliance rating	Issue #
						
66.	43.	Parking The Proponent must provide sufficient parking on-site for all project-related traffic in accordance with Council's parking codes and in consultation with Council.	Site inspection	Verified previous audit. Parking areas provided for light and heavy vehicles. Visitor parking area provided at gate.	Compliant	
67.	44.	Transport Management Plan The Proponent must prepare a Transport Management Plan for the project to the Secretary. This plan must:	Transport Management Plan Rev 05, 9 December 2019.	Transport Management Plan prepared.	Compliant	
		(a) be prepared by a suitably qualified traffic consultant in consultation with the RMS and Council, and submitted to the Secretary for approval within 4 months of the date of this approval;	Transport Management Plan Rev 05, 9 December 2019.	The Transport Management Plan was prepared by GTA Consultants in conjunction with R W Corkery & Co, in consultation with the RMS and Lake Macquarie City Council. The Transport Management Plan was prepared to satisfy Project Approval 10_0183 Schedule 3 condition 44 was approved by DP&I on 10 October 2013. Transport Management Plan updated 9/12/2019 (Revision 5). Approved 12/12/19.		
		(b) include a drivers' code of conduct for the project;	Transport Management Plan Rev 05, 9 December 2019.	Transport Management Plan Appendix 1 provides the Drivers Code of Conduct		
		(c) describe the measures that would be implemented to ensure:	Transport Management Plan Rev 05, 9 December 2019.	Transport Management Plan section 6.2		

JHC Ref No	Cond. No.	Condition	Evidence	Finding and Recommendations	Compliance rating	Issue #
		<ul style="list-style-type: none"> drivers are aware of potential safety issues along the haulage routes in particular near schools; drivers of project-related vehicles comply with the drivers' code of conduct; compliance with the relevant conditions of this approval; and 		describes Competence Training and Awareness that includes site traffic rules, safe site delivery, Drivers Code of Conduct, maximum hourly despatch rates and operation and maintenance of wheel washes. Section 8 Performance Monitoring		
		(d) include a program to monitor the effectiveness of the implementation of these measures.	Transport Management Plan Rev 05, 9 December 2019.	Transport Management Plan section 8 describes Performance and Monitoring of the truck and transport management plan requirements.		
		The Proponent must implement the plan as approved by the Secretary.	Driver induction records Truck Movement Summaries 2020-2023	Records were sighted to verify implementation of the Traffic Management Plan. No non-conformances were identified in relation to traffic management.		
BUSHFIRE MANAGEMENT						
68.	45.	<p>The Proponent must:</p> <ul style="list-style-type: none"> (a) ensure that the project is suitably equipped to respond to any fires on site; and (b) assist the Rural Fire Service, emergency services and National Parks and Wildlife Service as much as possible if there is a fire in the surrounding area. 	Bushfire Management Plan, Rev 3 14/07/2022.	<p>Bushfire Management Plan prepared which identifies resources and processes for managing bushfires.</p> <p>Asset protection zone which has an exclusion zone identified.</p> <p>The following was available on site:</p> <ul style="list-style-type: none"> 2 water carts- (33,000L and 10,000L). Water cannon on 33,000L tank. Water carts are kept full at all times. Fire protection zone established around structures Fire fighting equipment (extinguishers, etc) available on site. 	Compliant	

JHC Ref No	Cond. No.	Condition	Evidence	Finding and Recommendations	Compliance rating	Issue #
WASTE						
69.	46.	Prior to importing any Virgin Excavated Natural Material or excavated natural material to the site, the Proponent must obtain a 'resource recovery exemption' under the POEO Act and provide evidence of this approval to the Department.	Site interview	No VENM or ENM had been imported.	Not triggered	
70.	47.	The Proponent must: (a) minimise the waste generated by the project; and (b) ensure that the waste generated by the project is appropriately stored, handled, and disposed of, to the satisfaction of the Secretary.	Site inspection	Appropriate facilities have been provided for the storage and handling of waste on site. Separate bins are provided for steel, cardboard and general waste. Waste oils were segregated and recycled. Disposal was via approved waste contractors.	Compliant	
71.	48.	The Proponent must prepare a Waste Management Plan for the project to the satisfaction of the Secretary. This plan must:	Waste Management Plan, Rev 03, 9 December 2019.	The Waste Management Plan was prepared to satisfy Project Approval 10_0183 Schedule 3 condition 48 and approved by DPI on 10 Oct 2013. Waste Management Plan updated (Revision 3, 9/12/2019) which was approved by DPE on 12/12/19.	Compliant	
		(a) be prepared in consultation with DRG and Council, and submitted to the Secretary for approval prior within 4 months of the date of this approval;	Waste Management Plan, Rev 03, 9 December 2019.	Section 3 – Consultation and Appendix 2.		
		(b) identify the various waste streams of the project;	Waste Management Plan, Rev 03, 9 December 2019.	Section 7 – Water Streams at Teralba Quarry		
		(c) estimate the volumes of waste material that would be generated by the project, including recycled concrete brought on-site;	Waste Management Plan, Rev 03, 9 December 2019.	Section 8 – Waste Sources Within Teralba Quarry		
		(d) describe and justify the proposed strategy for disposing of this waste material, including recycled concrete brought on-site; and	Waste Management Plan, Rev 03, 9 December 2019.	Section 9 – Control Measures		

JHC Ref No	Cond. No.	Condition	Evidence	Finding and Recommendations	Compliance rating	Issue #
		(e) include a program to monitor the effectiveness of these measures.	Waste Management Plan, Rev 03, 9 December 2019.	Section 10 Monitoring and Evaluation of Compliance		
		The Proponent must implement the plan as approved by the Secretary.	Site Inspection Waste receipts, e.g.: Order 39533 Cleanaway Operations Pty Ltd, 13/04/2022 (various bins) Order 38956 Cleanaway Operations Pty Ltd, 24/02/2022 (Oil filters) Monthly Waste Disposal Summary	The waste Management Plan has been implemented. Facilities had been provided for the collection and segregation of waste. Records of disposal of waste were sighted.		
ABORIGINAL HERITAGE						
72.	49.	Heritage Management Plan The Proponent must prepare a Heritage Management Plan for the project to the satisfaction of the Secretary. This plan must:	Heritage Management Plan Ver 03, 11/09/2019.	Heritage Management Plan updated (Version 3, 11/09/2019) and approved by DPI&E on 6/12/2019.	Compliant	
73.		(a) be prepared in consultation with Aboriginal stakeholders;	Heritage Management Plan Ver 03, 11/09/2019. Independent Environmental Audit – Teralba Quarry, Trevor Brown and Associates, February 2017.	Section 6 - Consultation		
74.		(b) be submitted to the Secretary for approval prior to carrying out any development within the Northern Extension area or within 6 months of the date of this approval;	Heritage Management Plan Ver 03, 11/09/2019. Independent Environmental Audit – Teralba Quarry, Trevor Brown and Associates, February 2017.	A Heritage Management Plan was prepared in June 2013 to satisfy the requirements of Project Approval 10_0183 Schedule 3 condition 49 and submitted to DPI&E and approved on 19 September 2014.		
75.		(c) describe the measures that would be implemented for: <ul style="list-style-type: none"> monitoring all new surface disturbance on site for unidentified Aboriginal objects; managing the discovery of any human remains or previously unidentified Aboriginal objects on site; and 	Heritage Management Plan Ver 03, 11/09/2019.	Section 9 – Pre-Clearance Surveys Section 13 – Unexpected Finds Protocol for Artefacts and Human Remains. Section 10 – Ongoing Consultation with Aboriginal Stakeholders		

JHC Ref No	Cond. No.	Condition	Evidence	Finding and Recommendations	Compliance rating	Issue #
		<ul style="list-style-type: none"> ensuring ongoing consultation with Aboriginal stakeholders in the conservation and management of any Aboriginal cultural heritage values on site. 				
76.		The Proponent must implement the plan as approved by the Secretary.	<p>Heritage Management Plan Ver 03, 11/09/2019.</p> <p>Email 18/02/2021 FW559 – Teralba Quarry – Stored Artefacts</p> <p>Email 24/03/2021 FW559 – Teralba Quarry – Stored Artefacts from Austral Archaeology.</p> <p>Email 20/04/2022 FW559 – Teralba Quarry – Stored Artefacts</p> <p>Email 21/07/2022 FW559 – Teralba Quarry – Stored Artefacts</p>	<p>The Heritage Management Plan had been implemented. No non-compliances with the Heritage Management Plan were identified.</p> <p>Artefacts identified during the 2019 monitoring campaign have yet to be reburied due to Covid-19 restrictions during 2020-2022 period.</p> <p>Metromix has been in regular contact with the archaeologist to arrange for the reburial of the artefacts.</p>	Compliant	
77.	49A.	<p>If any suspected Aboriginal object or place is identified on site, the Proponent must ensure that:</p> <ul style="list-style-type: none"> (a) all work in the immediate vicinity of the suspected Aboriginal object or place ceases immediately; (b) a 10 m buffer area around the suspected Aboriginal object or place is cordoned off; and (c) OEH is contacted immediately. <p>Work in the immediate vicinity of the Aboriginal object or place may only recommence in accordance with the provisions of Part 6 of the <i>National Parks and Wildlife Act 1974</i>.</p>		No artefacts have been identified during works on site during the current audit period.	Not triggered	
BIODIVERSITY AND REHABILITATION						
78.	50.	<p>Fauna Habitat</p> <p>The Proponent must install 20 nest boxes for microbats, 20 nest boxes for Little Lorikeets and 30 nest boxes for Sugar Gliders. These boxes must be monitored and maintained regularly over the life of the project, and re-located or replaced if not used by targeted fauna for a period of 12 months.</p>	<p>2022 Nest Box Monitoring Report, ECHO Ecology and Surveying.</p> <p>2021 Nest Box Monitoring Report, ECHO Ecology and Surveying.</p> <p>2020 Nest Box Monitoring Report, ECHO Ecology and Surveying.</p>	<p>Nesting boxes were installed in late 2014. Monitoring conducted annually in November.</p> <p>Monitoring records sighted and included in the annual report.</p>	Compliant	

JHC Ref No	Cond. No.	Condition	Evidence	Finding and Recommendations	Compliance rating	Issue #
79.	51.	The Proponent must, wherever practicable, avoid clearing hollow-bearing trees. If clearing a hollow-bearing tree cannot be avoided, then its removal must be offset with an additional and comparable habitat structure within the site.	Report – Hollow- Bearing Tree Survey of Stages 1C and 2BA Stripping, Echo Ecology, 10/08/2020 13/08/2020 – Map showing location of possible nesting boxes, Echo Ecology.	Stage 2 clearance survey conducted 2019. The next boxes provided (see condition 50 were provided to offset hollow bearing trees removed during this clearing. Stage 1C clearing 2020. Stage 2BA cleared 2022. An additional 11 nest boxes were installed in 2020 to compensate for vegetation clearing as the result of the powerline relocation.	Compliant	
80.	52.	Biodiversity Offset Strategy The Proponent must retire biodiversity credits specified in conditions 54 to 56 of this schedule in accordance with the Biodiversity Offset Scheme of the <i>Biodiversity Conservation Act 2016</i> , to the satisfaction of the Secretary and OEH.	Independent Environmental Audit: Teralba Quarry Development Consent PA 10-0183, AQUAS, February 2020	Verified previous audit	Compliant	
81.	53.	The Proponent must prepare and submit a Biodiversity Offset Strategy to the satisfaction of the Secretary. This strategy must:	Independent Environmental Audit: Teralba Quarry Development Consent PA 10-0183, AQUAS, February 2020	Biodiversity Offset Strategy prepared and included in the Biodiversity and Rehabilitation Management Plan (Appendix 2). Draft 1 report provided to DPI&E on 28/06/18. Draft 2 report completed April 2019. Draft 3 completed June 2019. Approved 18 June 2019.	Compliant	
		(a) be submitted for approval by the Secretary prior to 30 June 2018, or as otherwise agreed by the Secretary; and	Email 22/12/18 from OEH verifying Biodiversity credits (Stage 1 and 2 credits) had been retired.			
		(b) be prepared in accordance with the Biodiversity Conservation Act 2016; and		The Biodiversity Offset Strategy has been prepared with consideration of the Biodiversity Conservation Act 2016.		
		(c) provide for the retirement of biodiversity credits as specified in conditions 54 to 56 of this schedule.	Biodiversity and Rehabilitation Management Plan, June 2019.	Appendix 2 Biodiversity Offset Strategy		
		The Proponent must implement the Biodiversity Offset Strategy to the satisfaction of the Secretary and OEH.		Biodiversity Offset Strategy has been implemented. OEH verified that Biodiversity credits (Stage 1 and 2 credits) had been retired 22/12/18.		

JHC Ref No	Cond. No.	Condition	Evidence	Finding and Recommendations	Compliance rating	Issue #									
82.	54.	<p>By 31 December 2018, unless otherwise approved by the Secretary, the Proponent must retire all biodiversity credits listed in Table 8 to the satisfaction of the Secretary and OEH.</p> <p><i>Table 8: Biodiversity Credits to be retired by 31 December 2018</i></p> <table><tr><th>Credit Type</th><th>Offset Type</th><th>Number of Credits</th></tr><tr><td>Ecosystem Credits</td><td>PCT1589 'Spotted Gum – Broad-leaved Mahogany – Grey Gum grass – shrub open forest on Coastal Lowlands of the Central Coast'</td><td>670</td></tr><tr><td>Species Credits</td><td>Black-eyed Susan (<i>Tetralochea juncea</i>)</td><td>1103</td></tr></table>	Credit Type	Offset Type	Number of Credits	Ecosystem Credits	PCT1589 'Spotted Gum – Broad-leaved Mahogany – Grey Gum grass – shrub open forest on Coastal Lowlands of the Central Coast'	670	Species Credits	Black-eyed Susan (<i>Tetralochea juncea</i>)	1103	Email 22/12/18 from OEH verifying Biodiversity credits (Stage 1 and 2 credits) had been retired.	Verified previous audit	Compliant	
Credit Type	Offset Type	Number of Credits													
Ecosystem Credits	PCT1589 'Spotted Gum – Broad-leaved Mahogany – Grey Gum grass – shrub open forest on Coastal Lowlands of the Central Coast'	670													
Species Credits	Black-eyed Susan (<i>Tetralochea juncea</i>)	1103													
83.	55.	<p>Prior to any vegetation clearing in Southern Extension Stage 3 (see Figure 7 of Appendix 5) the Proponent must retire all biodiversity credits listed in Table 8a to the satisfaction of the Secretary and OEH.</p> <p><i>Table 8a: Biodiversity credits to be retired prior to vegetation clearing in Southern Extension Stage 3</i></p> <table><tr><th>Credit Type</th><th>Offset Type</th><th>Number of Credits</th></tr><tr><td>Ecosystem Credits</td><td>PCT1589 - 'Spotted Gum – Broad-leaved Mahogany – Grey Gum grass – shrub open forest on Coastal Lowlands of the Central Coast'</td><td>171</td></tr></table>	Credit Type	Offset Type	Number of Credits	Ecosystem Credits	PCT1589 - 'Spotted Gum – Broad-leaved Mahogany – Grey Gum grass – shrub open forest on Coastal Lowlands of the Central Coast'	171		Stage 3 not commenced	Not Triggered				
Credit Type	Offset Type	Number of Credits													
Ecosystem Credits	PCT1589 - 'Spotted Gum – Broad-leaved Mahogany – Grey Gum grass – shrub open forest on Coastal Lowlands of the Central Coast'	171													
84.	56.	<p>Prior to any vegetation clearing in Northern Extension Stages 1, 2 or 3 (see Figure 7 of Appendix 5) the Proponent must retire all biodiversity credits listed in Table 8b to the satisfaction of the Secretary and OEH.</p> <p><i>Table 8b: Biodiversity credits to be retired prior to vegetation clearing in Northern Extension Stages 1, 2 or 3</i></p> <table><tr><th>Credit Type</th><th>Offset Type</th><th>Number of Credits</th></tr><tr><td>Ecosystem Credits</td><td>PCT1589 - 'Spotted Gum – Broad-leaved Mahogany – Grey Gum grass – shrub open forest on Coastal Lowlands of the Central Coast'</td><td>502</td></tr></table>	Credit Type	Offset Type	Number of Credits	Ecosystem Credits	PCT1589 - 'Spotted Gum – Broad-leaved Mahogany – Grey Gum grass – shrub open forest on Coastal Lowlands of the Central Coast'	502		No work has been undertaken in the Northern Extension.	Not Triggered				
Credit Type	Offset Type	Number of Credits													
Ecosystem Credits	PCT1589 - 'Spotted Gum – Broad-leaved Mahogany – Grey Gum grass – shrub open forest on Coastal Lowlands of the Central Coast'	502													
85.	57.	<p>Long Term Security of Offsets</p> <p>Within 6 months of the approval of the Biodiversity Offset Strategy, or as otherwise agreed by the Secretary, the Proponent must make suitable arrangements for the long-</p>		The strategy does not include land based offsets	Not triggered										

JHC Ref No	Cond. No.	Condition	Evidence	Finding and Recommendations	Compliance rating	Issue #												
		term protection of any land identified in the Strategy, to the satisfaction of the Secretary.																
86.	58.	<p>Rehabilitation Objectives</p> <p>The Proponent must rehabilitate the site to the satisfaction of the Secretary. This rehabilitation must be generally consistent with the proposed rehabilitation strategy in the EA and Appendix 6, and comply with the objectives in Table 9.</p> <p><i>Table 9: Rehabilitation Objectives</i></p> <table><tr><th>Feature</th><th>Objective</th></tr><tr><td>Site (as a whole)</td><td><ul style="list-style-type: none">SafeHydraulically and geotechnically stableNon-pollutingFit for the intended post-mining land use(s)Final landform integrated with surrounding natural landforms as far as is reasonable and feasibleMinimising visual impacts when viewed from surrounding land</td></tr><tr><td>Surface infrastructure</td><td><ul style="list-style-type: none">Decommissioned and removed, unless otherwise agreed by the Secretary</td></tr><tr><td>Benched quarry walls</td><td><ul style="list-style-type: none">Landscaped and revegetated utilising native tree and understorey species, ensuring that the tree canopy is restored and integrated with the surrounding canopy to minimise visual impacts</td></tr><tr><td>Quarry pit floors and silt ponds</td><td><ul style="list-style-type: none">Landscaped and revegetated utilising native flora species and felled trees from clearing.Revegetation not required for existing and proposed industrial areas</td></tr><tr><td>Other land affected by the project</td><td><ul style="list-style-type: none">Restore ecosystem function, including maintaining or establishing self-sustaining eco-systems comprised of:<ul style="list-style-type: none">native endemic speciesa landform consistent with Figure 8 (Appendix 6) and the surrounding environment</td></tr></table>	Feature	Objective	Site (as a whole)	<ul style="list-style-type: none">SafeHydraulically and geotechnically stableNon-pollutingFit for the intended post-mining land use(s)Final landform integrated with surrounding natural landforms as far as is reasonable and feasibleMinimising visual impacts when viewed from surrounding land	Surface infrastructure	<ul style="list-style-type: none">Decommissioned and removed, unless otherwise agreed by the Secretary	Benched quarry walls	<ul style="list-style-type: none">Landscaped and revegetated utilising native tree and understorey species, ensuring that the tree canopy is restored and integrated with the surrounding canopy to minimise visual impacts	Quarry pit floors and silt ponds	<ul style="list-style-type: none">Landscaped and revegetated utilising native flora species and felled trees from clearing.Revegetation not required for existing and proposed industrial areas	Other land affected by the project	<ul style="list-style-type: none">Restore ecosystem function, including maintaining or establishing self-sustaining eco-systems comprised of:<ul style="list-style-type: none">native endemic speciesa landform consistent with Figure 8 (Appendix 6) and the surrounding environment	Site Inspection	<p>Progressive rehabilitation had been conducted of the former silt cells.</p> <p>During the site inspection, areas rehabilitated during 2002, 2021 and 2022 were inspected. It was noted that rehabilitation using coarse woody debris on rehabilitated silt cells and tubestock planting has been successful.</p> <p>Rehabilitated areas were looking lush and healthy.</p>	Compliant	
Feature	Objective																	
Site (as a whole)	<ul style="list-style-type: none">SafeHydraulically and geotechnically stableNon-pollutingFit for the intended post-mining land use(s)Final landform integrated with surrounding natural landforms as far as is reasonable and feasibleMinimising visual impacts when viewed from surrounding land																	
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Quarry pit floors and silt ponds	<ul style="list-style-type: none">Landscaped and revegetated utilising native flora species and felled trees from clearing.Revegetation not required for existing and proposed industrial areas																	
Other land affected by the project	<ul style="list-style-type: none">Restore ecosystem function, including maintaining or establishing self-sustaining eco-systems comprised of:<ul style="list-style-type: none">native endemic speciesa landform consistent with Figure 8 (Appendix 6) and the surrounding environment																	
87.	59.	<p>Progressive Rehabilitation</p> <p>The Proponent must rehabilitate the site progressively, that is, as soon as reasonably practicable following disturbance. All reasonable and feasible measures must be taken to minimise the total area exposed for dust generation at any time. Interim stabilisation measures must be implemented where reasonable and feasible to control dust emissions in</p>	Site inspection	<p>During the site inspection, areas rehabilitated during 2002, 2021 and 2022 were inspected, with rehabilitated areas showing good coverage.</p>	Compliant													

JHC Ref No	Cond. No.	Condition	Evidence	Finding and Recommendations	Compliance rating	Issue #
		disturbed areas that are not active and which are not ready for final rehabilitation. <i>Note: It is accepted that parts of the site that are progressively rehabilitated may be subject to future re-disturbance.</i>				
88.	60.	Biodiversity and Rehabilitation Management Plan The Proponent must prepare a Biodiversity and Rehabilitation Management Plan for the project to the satisfaction of the Secretary. This plan must: (a) be prepared by a suitably qualified expert and in consultation with DRG, DPI and Council;	Biodiversity and Rehabilitation Management Plan, 18 June 2019.	Biodiversity and Rehabilitation Management Plan prepared. Draft 1 report provided to DPI&E on 28/06/18. Draft 2 report completed April 2019. Draft 3 completed June 2019. Approved 18 June 2019. prepared by R.W. Corkery. Draft 1 submitted to DRG, DPI&E and Council for review;	Compliant	
		(b) be submitted to the Secretary for approval within 12 months of the date of approval of Modification 1;	Biodiversity and Rehabilitation Management Plan, 18 June 2019.	Draft 1 submitted 28 June 2018;		
		(c) provide details of the conceptual final landform and associated land uses for the site;	Biodiversity and Rehabilitation Management Plan, 18 June 2019.	Details of the conceptual final landform and associated land uses for the site included in Section 2.2		
		(d) describe how the implementation of the Biodiversity Offset Strategy would be integrated with the overall rehabilitation of the site;	Biodiversity and Rehabilitation Management Plan, 18 June 2019.	Short, medium and long-term measures identified in Section 6		
		(e) describe the short, medium and long-term measures that would be implemented to: • manage remnant vegetation and habitat on site; • implement the Biodiversity Offset Strategy; and • ensure compliance with the rehabilitation objectives and progressive rehabilitation obligations in this approval;	Biodiversity and Rehabilitation Management Plan, 18 June 2019.	Section 9 – Rehabilitation		
		(f) include detailed performance and completion criteria for evaluating the performance of the Biodiversity	Biodiversity and Rehabilitation Management Plan, 18 June 2019.	Section 6 - Biodiversity and Rehabilitation Management		

JHC Ref No	Cond. No.	Condition	Evidence	Finding and Recommendations	Compliance rating	Issue #
		Offset Strategy and the rehabilitation of the site (including progressive rehabilitation), including triggering remedial action (if necessary);				
		<p>(g) include a detailed description of the measures that would be implemented over the next 3 years, including the procedures to be implemented for:</p> <ul style="list-style-type: none"> ensuring compliance with the rehabilitation objectives and progressive rehabilitation obligations in this approval; enhancing the quality of remnant vegetation and fauna habitat; protecting and restoring native endemic vegetation and fauna habitat within any offset areas and rehabilitation areas; maximising the salvage of environmental resources within the approved disturbance area – including tree hollows, vegetative and soil resources – for beneficial reuse in the enhancement of the biodiversity areas or rehabilitation area; collecting and propagating seed; ensuring minimal environmental consequences for the local <i>Tetratheca juncea</i> population; protecting vegetation and fauna habitat outside the approved disturbance area on-site; minimising the impacts on native fauna on site, including undertaking appropriate pre-clearance surveys; controlling weeds and feral pests; controlling erosion; controlling access; and bushfire management; 	Biodiversity and Rehabilitation Management Plan, 18 June 2019.	Section 8 Monitoring and Evaluation		
		(h) include a program to monitor the effectiveness of these measures, and progress against the performance and completion criteria;	Biodiversity and Rehabilitation Management Plan, 18 June 2019.			

JHC Ref No	Cond. No.	Condition	Evidence	Finding and Recommendations	Compliance rating	Issue #
		(i) identify the potential risks to successful implementation of the Biodiversity Offset Strategy and rehabilitation of the site, and include a description of the contingency measures that would be implemented to mitigate against these risks; and	Biodiversity and Rehabilitation Management Plan, 18 June 2019.	Section 5 Biodiversity and Rehabilitation Risks		
		(j) include details of who would be responsible for monitoring, reviewing, and implementing the plan.	Biodiversity and Rehabilitation Management Plan, 18 June 2019.	Section 1.6.1 Roles and Responsibilities.		
		The Proponent must implement the plan as approved by the Secretary.	<p>Site Inspection</p> <p>Teralba Quarry 2020 Annual Review</p> <p>Teralba Quarry 2021 Annual Review</p> <p>Report - RE: Hollow-bearing tree survey of Stages 1C & 2BA stripping, ECHO Ecology and Surveying, 10/08/2020.</p> <p>Daily Compliance Monitoring 13/07/2020 to 17/07/2020</p>	<p>Biodiversity credits had been purchased and retired (see Condition 54).</p> <p>The rehabilitation Bond had been reviewed and submitted To DPE following the previous environmental audit (See Condition 62).</p> <p>Stripped topsoil had been stockpiled for later reuse during rehabilitation.</p> <p>Ongoing weed management had been undertaken. T.E.N.T.A.C.L.E. reports included in the Annual Review report on weed management, revegetation and fauna sightings</p> <p>Nest boxes had been installed and monitored by Echo Ecology, with reports included in the annual Reviews.</p> <p>Access to the Quarry site had been restricted, with gates located outside of operating hours.</p> <p>Erosion and sediment controls had been implemented for areas exposed during clearing operations.</p> <p>Exclusion zones had been provided to prevent access to areas containing <i>Tetratheca juncea</i>.</p>		

JHC Ref No	Cond. No.	Condition	Evidence	Finding and Recommendations	Compliance rating	Issue #
				Assessment of visual impacts was conducted annually with results provided in the Annual Reviews. Daily compliance monitoring (weather, catchment outflows and dam levels)		
89.	61.	<p>Rehabilitation Bond</p> <p>Within 6 months of the approval of the Biodiversity and Rehabilitation Management Plan, the Proponent must lodge a Rehabilitation Bond with the Department to ensure that the rehabilitation of the site is implemented in accordance with the performance and completion criteria set out in the Biodiversity and Rehabilitation Management Plan and the relevant conditions of approval. The sum of the bond must be determined by:</p> <ul style="list-style-type: none"> 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 (c) employing a suitably qualified quantity surveyor or other expert to verify the calculated costs to the satisfaction of the Secretary. <p>The calculation of the Rehabilitation Bond must be submitted to the Department for approval at least 2 months prior to the lodgement of the bond.</p>	Letter – Revised Rehabilitation Bond Calculation, 2/04/2020.	<p>Bond Approved 3/04/2020.</p> <p>The Rehabilitation Bond had not been lodged with the Department within 6 months of the approval of the Biodiversity and Rehabilitation Management Plan.</p> <p>This was raised as a non-compliance in the previous audit report.</p>	Compliant	
90.	62.	<p>The Rehabilitation Bond must be reviewed and, if required, an updated bond must be lodged with the Department within 3 months following:</p> <ul style="list-style-type: none"> (a) an update or revision to the Biodiversity and Rehabilitation Management Plan; (b) the completion of an Independent Environmental Audit in which recommendations relating to the rehabilitation of the site have been made; or (c) in response to a request by the Secretary. <p><i>Notes:</i></p>		<p>Bond Approved 3/04/2020.</p> <p>No review required. No recommendations relating to rehabilitation of the site were raised during the current audit.</p>	Not triggered	

JHC Ref No	Cond. No.	Condition	Evidence	Finding and Recommendations	Compliance rating	Issue #
		<ul style="list-style-type: none"> <i>If capital and other expenditure required by the Biodiversity and Rehabilitation Management Plan is largely complete, the Secretary may waive the requirement for lodgement of a bond in respect of the remaining expenditure.</i> <i>If the rehabilitation of the site area is completed to the satisfaction of the Secretary, then the Secretary will release the bond. If the rehabilitation of the site is not completed to the satisfaction of the Secretary, then the Secretary will call in all or part of the bond, and arrange for the completion of the relevant works.</i> 				
91.	63.	Relocated Powerlines The Proponent must ensure that any relocation of existing powerlines on-site does not cause greater than minor environmental consequences.	REF (Project SC-11765: Relation of 33kV and 11kV Power Lines, Teralba, December 2019)	Environmental Assessment completed for relation of power lines. REF (Project SC-11765: Relation of 33kV and 11kV Power Lines, Teralba, December 2019) completed for works, which was approved by Ausgrid 23/12/19. Verified previous report.	Compliant	

JHC Ref No	Cond. No.	Condition	Evidence	Finding and Recommendations	Compliance rating	Issue #
SCHEDULE 4 – ADDITIONAL PROCEDURES						
NOTIFICATION OF LANDOWNERS						
.	1.	<p>As soon as practicable and no longer than 7 days after obtaining monitoring results showing an:</p> <p>(b) exceedance of any relevant criteria in Schedule 3, the Proponent must notify affected landowners in writing of the exceedance, and provide regular monitoring results to each affected landowner until the project is again complying with the relevant criteria; and</p> <p>(c) an exceedance of the relevant air quality criteria in Schedule 3, the proponent must send a copy of the NSW Health fact sheet entitled “<i>Mine Dust and You</i>” (as may be updated from time to time) to the affected landowners and/or existing tenants of the land.</p>	<p>Site interview</p> <p>Email to EPA 19/02/2020 Re dust monitoring Exceedance Jan 2020</p> <p>Email 17/11/2021 Re Noise Monitoring November 2021 MP10 0183-PA-15</p> <p>EPA/ DPE notification water quality exceedance 3/08/2020.</p> <p>Email Report Water Exceedance 11/08/2020</p> <p>Teralba Quarry Blasting Exceedance.</p> <p>Email to DPE 13/03/2020</p> <p>Email to DPE 26/03/2020 – Blasting Exceedance Notification.</p> <p>Email – Final Report on Blast Exceedances, 24/04/2020</p>	<p>No exceedance of relevant criteria have occurred as the result of quarrying operations.</p> <p>Dust exceedances recorded were attributed to environmental conditions not associated with quarry activities.</p> <p>Blasting exceedances – Reported that no affected landowners.</p> <p>Reported that Teralba Business Park was notified by telephone.</p> <p>Noise exceedance – EPA and DPE notified. Affected landowners not notified.</p> <p>Recommendation:</p> <p>Where an exceedance of any relevant criteria in Schedule 3 is identified, Metromix should notify affected landowners in writing of the exceedance, and provide regular monitoring results.</p>	Not Compliant	NC-06
INDEPENDENT REVIEW						
.	2.	<p>If an owner of privately-owned land considers the project to be exceeding the relevant criteria in Schedule 3, then he/she may ask the Secretary in writing for an independent review of the impacts of the project on his/her land.</p> <p>If the Secretary is satisfied that an independent review is warranted, then within 2 months of the Secretary’s decision the Proponent must:</p> <p>(a) commission a suitably qualified, experienced and independent expert, whose appointment has been approved by the Secretary, to:</p>		No requests have been received.	Not triggered	

JHC Ref No	Cond. No.	Condition	Evidence	Finding and Recommendations	Compliance rating	Issue #
		<ul style="list-style-type: none"> consult with the landowner to determine his/her concerns; conduct monitoring to determine whether the project is complying with the relevant criteria in Schedule 3; and if the project is not complying with these criteria, then identify the measures that could be implemented to ensure compliance with the relevant criteria; and <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>				
94.	3.	<p>If the independent review determines that the project is complying with the relevant criteria in Schedule 3, then the Proponent may discontinue the independent review with the approval of the Secretary.</p> <p>If the independent review determines that the project is not complying with the relevant criteria in Schedule 3, then the Proponent must:</p> <p>(a) implement all reasonable and feasible mitigation measures, in consultation with the landowner and appointed independent expert, and conduct further monitoring until the project complies with the relevant criteria; or</p> <p>(b) secure a written agreement with the landowner to allow exceedances of the relevant criteria, to the satisfaction of the Secretary.</p>		No independent review have been required.	Not triggered	

JHC Ref No	Cond. No.	Condition	Evidence	Finding and Recommendations	Compliance rating	Issue #
SCHEDULE 5 – ENVIRONMENTAL MANAGEMENT, REPORTING AND AUDITING						
ENVIRONMENTAL MANAGEMENT						
95.	1.	Environmental Management Strategy The Proponent must prepare an Environmental Management Strategy for the project to the satisfaction of the Secretary. This strategy must:	Environmental Management Strategy updated Revision 3, 20/12/2018.	An Environmental Management Strategy was prepared to satisfy Project Approval Schedule 5 condition 1 and originally approved by DP&I on 16 January 2014. Environmental Management Strategy updated (Revision 3, 20/12/2018) and approved by DPI&E 25/01/2019. Verified previous audit	Compliant	
		(a) be submitted to the Secretary for approval with 6 months of the date of this approval;	Environmental Management Strategy updated Revision 3, 20/12/2018.	Section 2 Strategic Framework		
		(b) provide the strategic framework for environmental management of the project;	Environmental Management Strategy updated Revision 3, 20/12/2018.	Section 3 Legal and Other Requirements		
		(c) identify the statutory approvals that apply to the project;	Environmental Management Strategy updated Revision 3, 20/12/2018.	Section 14 Roles and Responsibilities		
		(d) describe the role, responsibility, authority and accountability of all key personnel involved in the environmental management of the project;	Environmental Management Strategy updated Revision 3, 20/12/2018.	Section 11 Stakeholder and Community Consultation, Section 9 Complaints Handling and Dispute Resolution, Section 8 Incident Reporting and Section 7 Corrective and Preventative Actions, Section 10 Emergency Response		
		(e) describe the procedures that would be implemented to: <ul style="list-style-type: none"> keep the local community and relevant agencies informed about the operation and environmental performance of the project; receive, handle, respond to, and record complaints; resolve any disputes that may arise during the course of the project; respond to any non-compliance; and respond to emergencies; and 	Environmental Management Strategy updated Revision 3, 20/12/2018.	Section 1.1 - Scope and Environmental Management Strategy Objectives, Section 5 – Monitoring.		
		(f) include: <ul style="list-style-type: none"> references to any strategies, plans and programs approved under the conditions of this approval; and 	Environmental Management Strategy updated Revision 3, 20/12/2018.			

JHC Ref No	Cond. No.	Condition	Evidence	Finding and Recommendations	Compliance rating	Issue #
		<ul style="list-style-type: none"> a clear plan depicting all the monitoring required to be carried out under the conditions of this approval. 				
		The Proponent must implement the strategy as approved by the Secretary.		<p>The Environmental Management Strategy has been implemented.</p> <p>No non-compliances have been identified in relation to implementation of the Environmental Management Strategy.</p>		
96.	2.	<p>Adaptive Management</p> <p>The Proponent must assess and manage project-related risks to ensure that there are no exceedances of the criteria and/or performance measures in Schedule 3. Any exceedance of these criteria and/or performance measures constitutes a breach of this approval and may be subject to penalty or offence provisions under the EP&A Act or EP&A Regulation.</p> <p>Where any exceedance of these criteria and/or performance measures has occurred, the Proponent must as soon as becoming aware of any exceedance.</p>	<p>Email to EPA 19/02/2020 Re dust monitoring Exceedance Jan 2020</p> <p>Email 17/11/2021 Re Noise Monitoring November 2021 MP10 0183-PA-15</p> <p>EPA/ DPE notification water quality exceedance 3/08/2020.</p> <p>Email Report Water Exceedance 11/08/2020</p> <p>DPE Response 24/08/2020.</p> <p>Email to DPE/ EPA 16/03/2020 – Teralba Quarry Blasting Exceedance.</p> <p>Email to DPE 13/03/2020</p> <p>Email to DPE 26/03/2020 – Blasting Exceedance Notification.</p> <p>Email – Final Report on Blast Exceedances, 24/04/2020</p>	<p>Noise exceedance 16-18 August 2021. Report received 14/09/2021</p> <p>Submitted to DPE 15/09/2021. Response 27/09/2021.</p> <p>17/11/2021 – Response from DPE. No further action.</p> <p>Water quality exceedance 27-29 July 2020</p> <p>Water quality results received 3, 4 and 5/08/2020 and Email sent to DPE notifying of exceedance.</p> <p>Letter to DPE Re Water Quality TSS Exceedances upload attempted 11/08/2020 (Not uploaded due to issue with Portal). Subsequently uploaded.</p> <p>Response from DPI 24/08/2020.</p> <p>Blast Exceedances February to March 2020</p> <p>Email to DPE 13/02/2020 for exceedance on 13/02/2020. Notified Teralba Business Park also notified by telephone.</p> <p>Additional information requested 13/03/2020, sent 16/03/2020.</p> <p>16/03/2020 Blast exceedance Report provided 23/03/2020, 25/03/2020.</p>	Not Compliant	NC-07

JHC Ref No	Cond. No.	Condition	Evidence	Finding and Recommendations	Compliance rating	Issue #
				Final report covering the three exceedances was provided to DPE and accepted on 24/04/2020. Official caution issued by DPE was subsequently issued. No further exceedances have occurred.		
		(a) take all reasonable and feasible steps to ensure that the exceedance ceases and does not reoccur;	Email - EPL 536 - Teralba Quarry Noise Exceedance Notification 9/11/2021 Email Report Water Exceedance 11/08/2020 DPE Response 24/08/2020. Email – Final Report on Blast Exceedances, 24/04/2020	Noise exceedance 16-18 August 2021 identified on receipt of report 14/09/2021. Steps taken to prevent reoccurrence included restricting the number of plant working above RL 60 AHD , limiting the time high noise plant is used above RL 60 AHD and ensuring mobile crushing and screening activities occur below RL 60 AHD. Water quality exceedance 27-29 July 2020 as the result of rainfall exceeding the design rainfall event for sediment dams in the Quarry. Water quality results returned to compliance after cessation of rainfall event. No further action required. Blast Exceedances February to March 2020 Exceedances of blast criteria occurred. Actions were identified (changes to blast design parameters) to minimise the risk of reoccurrence, however actions taken following the first two exceedances did not prevent reoccurrence. Blast design parameters further redesigned following third exceedance. No further exceedances have occurred.	Compliant	
		(b) consider all reasonable and feasible options for remediation (where relevant);		No additional remediation measures required.		

JHC Ref No	Cond. No.	Condition	Evidence	Finding and Recommendations	Compliance rating	Issue #
		(c) within 14 days of the exceedance occurring, submit a report to the Secretary describing these remediation options and any preferred remediation measures or other course of action; and	<p>Email to DPE 15.09.2021</p> <p>Email to EPA 9/11/2021 RE: EPL 536 - Teralba Quarry Noise Exceedance Notification</p> <p>October 2021 Secondary Monitoring Report</p> <p>Email to DPE 11/08/2021</p> <p>Email to DPE 13/02/2020, 17/03/2020</p> <p>Email 16/03/2020 from : no-reply@majorprojects.planning.nsw.gov.au re Teralba Quarry Blasting Exceedance - Response from Environment Protection Authority</p> <p>Email from DPE 15/05/2020 RE: Blasting Exceedance Notification 25.3.20</p>	<p>Noise exceedance 16-18 August 2021. Metromix became aware of exceedance on 14/09/2021 upon receipt of Noise Report from Consultant.– Report Submitted to DPE 15/09/2021.</p> <p>Water quality exceedance 27-29 July 2020 Water quality results received 3, 4 and 5/08/2020 and Email sent to DPE notifying of exceedance.</p> <p>Letter to DPE Re Water Quality TSS Exceedances upload attempted 11/08/2020 (Not uploaded due to issue with Portal). Subsequently uploaded.</p> <p>Response from DPI 24/08/2020</p> <p>Blast Exceedances February to March 2020</p> <p>Email to DPE 13/02/2020 for exceedance on 13/02/2020. Notified Teralba Business Park also notified by telephone.</p> <p>Additional information requested 13/03/2020, sent 16/03/2020.</p> <p>16/03/2020 Blast exceedance Report provided 23/03/2020, 25/03/2020.</p> <p>Final report covering the three exceedances was provided to DPE and accepted on 24/04/2020.</p> <p>Official caution issued by DPE was subsequently issued.</p>	Compliant	
		(d) implement remediation measures as directed by the Secretary,		Noise Exceedance – No additional remediation measures required.	Compliant	

JHC Ref No	Cond. No.	Condition	Evidence	Finding and Recommendations	Compliance rating	Issue #
				Water quality exceedance – No further remediation measures required. Blast Exceedance - No further remediation measures required.		
		to the satisfaction of the Secretary.		Official caution issued by DPE for blast exceedances. Actions proposed and implemented by Metromix for water and noise exceedances were accepted by the Secretary.	Compliant	
97.	3.	<p>The Proponent must ensure that the Management Plans required under this approval are prepared in accordance with any relevant guidelines, and include:</p> <p>(a) detailed baseline data;</p> <p>Note: The Secretary may waive some of these requirements if they are unnecessary or unwarranted for particular management plans.</p>	<p>Biodiversity and Rehabilitation Management Plan, 18 June 2019.</p> <p>Air Quality Management Plan, Rev 06, 9 December 2019.</p> <p>Noise Management Plan Rev 03, December 2021, Section 3</p> <p>Water Management Plan Rev 05, 21 September 2020, Section 3.</p> <p>Blast Management Plan Rev 06, 30 June 2020, Section 3.</p> <p>Lower Level Extraction Management Plan, TER SHE 4.8 – 012, September 2016</p> <p>Transport Management Plan Rev 05, 9 December 2019.</p> <p>Waste Management Plan – Teralba Quarry, Rev 03, 9 December 2019</p> <p>Heritage Management Plan Ver 03, 11/09/2019.</p>	<p>The Management Plans required under this Project Approval are consistent with the guidelines outlined in Project Approval Schedule 5 Condition 3.</p> <p>Examples of where management plans comply are shown below.</p> <p>BRMP – Section 2</p> <p>AQMP – Section 7 Existing Environment And Potential Air Quality-Related Impacts</p>	Compliant	
		<p>(b) a description of:</p> <ul style="list-style-type: none"> the relevant statutory requirements (including any relevant approval, licence or lease conditions); any relevant limits or performance measures/criteria; and the specific performance indicators that are proposed to be used to judge the performance of, or guide the implementation of, the project or any management measures; 		<p>AQMP, NMP - Section 4 Legal and Other Requirements</p> <p>Section 7 Existing Environment and Potential Air Quality-Related Impacts</p> <p>BRPM Section 1.4 Legal and Other Requirements</p> <p>BRMP Section 9 Rehabilitation Performance And Completion Criteria</p>		
		<p>(c) a description of the measures that would be implemented to comply with the relevant statutory requirements, limits, or performance measures/criteria;</p>		<p>Section 9 Rehabilitation Performance And Completion Criteria</p> <p>BRMP Section 6 – Monitoring and Evaluation</p> <p>AQMP Section 8 – Control Measures</p>		

JHC Ref No	Cond. No.	Condition	Evidence	Finding and Recommendations	Compliance rating	Issue #
		(d) a program to monitor and report on the: <ul style="list-style-type: none"> impacts and environmental performance of the project; and effectiveness of any management measures (see (c) above); 		Section 13 Publication of Monitoring Information Section 9 Rehabilitation Performance and Completion Criteria		
		(e) a contingency plan to manage any unpredicted impacts and their consequences;		Section 9 Rehabilitation Performance And Completion Criteria		
		(f) a program to investigate and implement ways to improve the environmental performance of the project over time;		Adaptive Management Section 14 Review		
		(g) a protocol for managing and reporting any: <ul style="list-style-type: none"> incidents; complaints; non-compliances with statutory requirements; and exceedances of the impact assessment criteria and/or performance criteria; and 		Section 12 Incident Reporting Section 11 Complaints Handling, Complaints Response And Incident Reporting Section 10 Evaluation of Compliance		
		(h) a protocol for periodic review of the plan.		Section 14 Plan Review		
98.	3A.	Evidence of Consultation Where conditions of this approval require consultation with an identified party, the Proponent must: <p>(a) (a) consult with the relevant party prior to submitting the subject document to the Secretary for approval; and</p> 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 approval. <p>(b) provide details of the consultation undertaken, including;</p> <ul style="list-style-type: none"> the outcome of that consultation, matters resolved and unresolved; and 	Noise Management Plan Rev 03, December 2021, Section 3 Water Management Plan Rev 05, 21 September 2020, Section 3. Blast Management Plan Rev 06, 30 June 2020, Section 3. Biodiversity and Rehabilitation Management Plan Section 1.3 Air Quality Management Plan Section 3 and Appendix 1 Transport Management Plan Section 3 and Appendix 3	Evidence of consultation has been included in management plans.	Compliant	

JHC Ref No	Cond. No.	Condition	Evidence	Finding and Recommendations	Compliance rating	Issue #
		<ul style="list-style-type: none"> details of any disagreement remaining between the party consulted and the Proponent and how the Proponent has addressed any unresolved matters. 				
99.	4.	Annual Review By the end of March each year, the Proponent must review the environmental performance of the project to the satisfaction of the Secretary. This review must:	Teralba Quarry 2019 Annual Review Project Approval PA10_0183 27 March 2020. Teralba Quarry 2020 Annual Review Project Approval PA10_0183, March 2021. Teralba Quarry 2021 Annual Review Project Approval PA10_0183, March 2022.	Annual Reviews submitted within required timeframe. E.g. 2019 – submitted 30/03/20. 2020 – submitted 31/03/21. 2021 – submitted 29/03/22.	Compliant	
100.		(a) describe the development (including rehabilitation) that was carried out in the previous calendar year, and the development that is proposed to be carried out over the current calendar year;	Teralba Quarry 2019 Annual Review Project Approval PA10_0183 27 March 2020. Teralba Quarry 2020 Annual Review Project Approval PA10_0183, March 2021. Teralba Quarry 2021 Annual Review Project Approval PA10_0183, March 2022.	Section 4 – Operations Summary	Compliant	
101.		(b) include a comprehensive review of the monitoring results and complaints records of the project over the previous calendar year, which includes a comparison of these results against: <ul style="list-style-type: none"> the relevant statutory requirements, limits or performance measures/criteria; the monitoring results of previous years; and the relevant predictions in the documents listed in condition 2A of Schedule 2; (c)	Teralba Quarry 2019 Annual Review Project Approval PA10_0183 27 March 2020. Teralba Quarry 2020 Annual Review Project Approval PA10_0183, March 2021. Teralba Quarry 2021 Annual Review Project Approval PA10_0183, March 2022.	5.1 Environmental Monitoring 5.2 5.2 – Noise Monitoring 5.3 5.3 Blasting 5.4 5.4 Air Quality 5.5 Fauna Habitat 6 Water Management	Compliant	

JHC Ref No	Cond. No.	Condition	Evidence	Finding and Recommendations	Compliance rating	Issue #
102.		(d) identify any non-compliance over the last year, and describe what actions were (or are being) taken to ensure compliance;	Teralba Quarry 2019 Annual Review Project Approval PA10_0183 27 March 2020. Teralba Quarry 2020 Annual Review Project Approval PA10_0183, March 2021. Teralba Quarry 2021 Annual Review Project Approval PA10_0183, March 2022.	Section 12 Incidents and Non-Compliances During The Reporting Period Appendix 6 Non-compliances	Compliant	
103.		(e) identify any trends in the monitoring data over the life of the project;	Teralba Quarry 2019 Annual Review Project Approval PA10_0183 27 March 2020. Teralba Quarry 2020 Annual Review Project Approval PA10_0183, March 2021. Teralba Quarry 2021 Annual Review Project Approval PA10_0183, March 2022.	5.6 Environmental Monitoring 5.7 5.2 – Noise Monitoring 5.8 5.3 Blasting 5.9 5.4 Air Quality 5.10 Fauna Habitat 6 Water Management	Compliant	
104.		(f) identify any discrepancies between the predicted and actual impacts of the project, and analyse the potential cause of any significant discrepancies; and	Teralba Quarry 2019 Annual Review Project Approval PA10_0183 27 March 2020. Teralba Quarry 2020 Annual Review Project Approval PA10_0183, March 2021. Teralba Quarry 2021 Annual Review Project Approval PA10_0183, March 2022.	5.11 Environmental Monitoring 5.12 5.2 – Noise Monitoring 5.13 5.3 Blasting 5.14 5.4 Air Quality 5.15 Fauna Habitat 6 Water Management 7 Rehabilitation	Compliant	
105.		(g) describe what measures will be implemented over the current calendar year to improve the environmental performance of the project.	Teralba Quarry 2019 Annual Review Project Approval PA10_0183 27 March 2020. Teralba Quarry 2020 Annual Review	13. Activities to be Completed During the Next Reporting Period	Compliant	

JHC Ref No	Cond. No.	Condition	Evidence	Finding and Recommendations	Compliance rating	Issue #
			Project Approval PA10_0183, March 2021. Teralba Quarry 2021 Annual Review Project Approval PA10_0183, March 2022.			
106.	5.	<p>Revision of Strategies, Plans & Programs</p> <p>Within 3 months of the submission of an:</p> <ul style="list-style-type: none"> (e) annual review under condition 4 above; (f) incident report under condition 7 below; (g) audit report under condition 9 below; and (h) any modifications to this approval, <p>the Proponent must review, and if necessary revise, the strategies, plans, and programs required under this approval to the satisfaction of the Secretary.</p> <p>The Proponent must notify the Department in writing of any such review being undertaken. Where this review leads to revisions in any such document, then within 6 weeks of the review the revised document must be submitted for the approval of the Secretary.</p> <p><i>Note: This is to ensure the strategies, plans and programs are updated on a regular basis, and incorporate any recommended measures to improve the environmental performance of the project.</i></p>	<p>Blast Management Plan Rev 06, 30 June 2020.</p> <p>DPE letter approving BMP 23/12/2020.</p> <p>Noise Management Plan Rev 03, 10/12/2021.</p> <p>DPE letter approving BMP 23/12/2020.</p> <p>Email 15/07/2020 acknowledging receipt of 2020 review of EMPs for Teralba Quarry.</p> <p>Email 5 June 2020 to DPE - Teralba Quarry – Review of Management Plans</p> <p>Letter 2/05/2022 - Re: Teralba Quarry (PA 10_0183) – Status of Environmental Management Plans</p>	<p>Following previous audit - 10/06/2020 submitted to DPE via portal (Review of EMPs)</p> <p>2021 annual review accepted 9/07/2021.</p> <p>Noted that the Blast Management Plan and the Noise Management Plan had been updated following incidents in 2020 and 2021.</p> <p>Review of management plans following annual reviews verified. Outcomes reported to DPE.</p> <p>Letter showing review of management plans following submission of the 2021-2022 Annual Review sighted. However, no record of submission of the letter to DPE was sighted.</p> <p>Recommendation:</p> <p>Metromix should ensure that, when management plans are reviewed, the Department is notified in writing of the outcome of the reviews.</p>	Not Compliant	NC-08
107.	6.	<p>Community Consultative Committee</p> <p>The Proponent must establish and operate a Community Consultative Committee (CCC) for the project to the satisfaction of the Secretary. This CCC must be operated in general accordance with the Department's Community Consultative Committee Guidelines for State Significant Developments, November 2016, or its latest version), and be operating within four months of the date of this approval.</p>	<p>Minutes of Meeting Teralba Quarry Community Consultative Committee (CCC) Via Teleconference*, 6 May 2020</p> <p>Minutes of Meeting Teralba Quarry Community Consultative Committee (CCC), 5 May 2021</p>	<p>Community Consultative Committee established.</p> <p>Meetings conducted annually (as agreed at meeting October 2019).</p> <p>Meeting minutes were available on the company website.</p>	Compliant	

JHC Ref No	Cond. No.	Condition	Evidence	Finding and Recommendations	Compliance rating	Issue #
		<p>Notes:</p> <p>The CCC is an advisory committee. The Department and other relevant agencies are responsible for ensuring that the proponent complies with this approval.</p> <p>In accordance with the guideline, the Committee should comprise an independent chair and appropriate representation from the Proponent, Council, recognised environmental groups and the local community.</p>	Minutes of Meeting Teralba Quarry Community Consultative Committee (CCC), 17 May 2021	Noted that, due to restrictions associated with Covid-19, some meetings had been conducted remotely.		
REPORTING						
108.	7.	The Proponent must immediately notify the Secretary (using the contact name, email address and phone number provided by the Department from time to time) and any other relevant agencies of any incident.	<p>Email response from DPE 14/02/2020 RE: Blast Overpressure Exceedance</p> <p>Email to DPE 3/08/2020 EPL: 536 Condition L2.4 Exceedance reporting Water Quality Exceedance between 25 & 28/07/2020</p>	<p>Blast exceedance 13/02/2020 reported to DPE 13/02/2020.</p> <p>Blast exceedance 16/03/2020 Reported to DPE</p> <p>Water quality exceedance reported 3/08/2020 upon receipt of laboratory results.</p>	Compliant	
109.	7B.	Within 7 days of the date of the incident, the Proponent must provide the Secretary and any relevant agencies with a detailed report on the incident, and such further reports as may be requested. This report must include the time and date of the incident, details of the incident, measures implemented to prevent re-occurrence and must identify any non-compliance with this approval.	<p>Email to EPA 19/02/2020 Re dust monitoring Exceedance Jan 2020</p> <p>Email 17/11/2021 Re Noise Monitoring November 2021 MP10 0183-PA-15</p> <p>EPA/ DPE notification water quality exceedance 3/08/2020.</p> <p>Email Report Water Exceedance 11/08/2020</p> <p>DPE Response 24/08/2020.</p> <p>Email to DPE/ EPA 16/03/2020 – Teralba Quarry Blasting Exceedance.</p> <p>Email to DPE 13/03/2020</p>	<p>Dust Criteria Exceedance January 2020</p> <p>Email sent to DPE informing of results 19/02/2020 (on receipt of results).</p> <p>Response from DPE identified that the dust source was not the Quarry and hence the results did not represent a non-compliance.</p> <p>Noise exceedance</p> <p>16-18 August 2021.</p> <p>Report received 14/09/2021</p> <p>Submitted to DPE 15/09/2021. Response 27/09/2021.</p> <p>17/11/2021 – Response from DPE. No further action.</p> <p>Water quality exceedance 27-29 July 2020</p>	Compliant	

JHC Ref No	Cond. No.	Condition	Evidence	Finding and Recommendations	Compliance rating	Issue #
			<p>Email to DPE 26/03/2020 – Blasting Exceedance Notification.</p> <p>Email – Final Report on Blast Exceedances, 24/04/2020</p>	<p>Water quality results received 3, 4 and 5/08/2020 and Email sent to DPE notifying of exceedance.</p> <p>Letter to DPE Re Water Quality TSS Exceedances upload attempted 11/08/2020 (Not uploaded due to issue with Portal). Subsequently uploaded.</p> <p>Response from DPI 24/08/2020.</p> <p>Blast Exceedances February to March 2020</p> <p>Email to DPE 13/02/2020 for exceedance on 13/02/2020. Notified Teralba Business Park also notified by telephone.</p> <p>Additional information requested 14/03/2020, sent 16/03/2020.</p> <p>16/03/2020 Blast exceedance Report provided 23/03/2020, 25/03/2020.</p> <p>Final report covering the three exceedances was provided to DPE and accepted on 24/04/2020.</p> <p>Official caution issued by DPE was subsequently issued.</p> <p>No further exceedances have occurred.</p> <p>Noise exceedance identified during August 2021 noise monitoring.</p> <p>Email from DPE 17/11/2021 identified no sustained exceedances of noise criteria and hence no breach of MP10_0183.</p>		
110.	8.	The Proponent must provide regular reporting on the environmental performance of the project on its website, in accordance with the reporting arrangements in any plans or programs approved under the conditions of this approval.	https://www.metromix.com.au/resources/	Monitoring records were readily available on the project website.	Compliant	

JHC Ref No	Cond. No.	Condition	Evidence	Finding and Recommendations	Compliance rating	Issue #
INDEPENDENT ENVIRONMENTAL AUDIT						
111.	9.	<p>Within a year of the commencement of development on site under this approval, and every 3 years thereafter, unless the Secretary directs otherwise, the Proponent must commission and pay the full cost of an Independent Environmental Audit of the project. This audit must:</p> <ul style="list-style-type: none"> (a) be conducted by suitably qualified, experienced and independent team of experts whose appointment has been endorsed by the Secretary; (b) include consultation with the relevant agencies; (c) assess the environmental performance of the project and whether it is complying with the relevant requirements in this approval and any relevant EPL and/or Water License (including any assessment, plan or program required under these approvals); (d) review the adequacy of any approved strategy, plan or program required under these approvals; and (e) recommend measures or actions to improve the environmental performance of the project, and/or any assessment, plan or program required under these approvals. <p><i>Note: This audit team must be led by a suitably qualified auditor and include experts in any fields specified by the Secretary.</i></p>	<p>Independent Environmental Audit: Teralba Quarry Development Consent PA 10-0183, AQUAS, February 2020</p> <p>Letter of Approval of Auditor from DPE 10/01/2023 - Teralba Quarry - Auditor Endorsement Request (MP 10_0183)</p>	<p>Previous audit conducted February 2020. Current audit commenced 7/02/2022.</p>	Compliant	
112.	10.	<p>Within 3 months of commissioning this audit, or as otherwise agreed by the Secretary, the Proponent must submit a copy of the audit report to the Secretary, together with its response to any recommendations contained in the audit report.</p>		<p>Conducted 3-4 February 2020. Response from DPE shows submitted 17 March 2020.</p>	Compliant	
ACCESS TO INFORMATION						
113.	11.	<p>Within 3 months of the date of this approval, the Proponent must:</p>	<p>https://www.metromix.com.au/resources/</p>	<p>Required information was available on the site website.</p>	Compliant	

JHC Ref No	Cond. No.	Condition	Evidence	Finding and Recommendations	Compliance rating	Issue #
		<p>(a) make the following information publicly available on its website:</p> <ul style="list-style-type: none"> the EA; current statutory approvals for the project; approved strategies, plans or programs; a summary of the monitoring results of the project, which have been reported in accordance with the various plans and programs approved under the conditions of this approval; a complaints register, updated on a quarterly basis; minutes of CCC meetings; copies of any annual reviews (over the last 5 years); any independent environmental audit, and the Proponent's response to the recommendations in any audit; and any other matter required by the Secretary; and <p>(b) keep this information up-to-date, to the satisfaction of the Secretary.</p>		<p>It was noted that access to documentation was reliant on knowledge of the year of approval/ development of the document</p> <p>Opportunity for Improvement</p> <p>Metromix may consider updating the project website to enable improve the layout and provide easier access to documentation.</p>		

a. Environmental Protection Licence No 536

JHC Ref No	Cond. No.	Condition	Evidence	Finding and Recommendations	Compliance rating	Issue No												
ENVIRONMENTAL PROTECTION LICENCE 536																		
114.	A1.1	<div>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.</div> <div>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.</div> <table><tr><th>Scheduled Activity</th><th>Fee Based Activity</th><th>Scale</th></tr><tr><td>Crushing, grinding or separating</td><td>Crushing, grinding or separating</td><td>> 500000 - 2000000 T annual processing capacity</td></tr><tr><td>Extractive activities</td><td>Land-based extractive activity</td><td>> 500000 - 2000000 T annual capacity to extract, process or store</td></tr></table>	Scheduled Activity	Fee Based Activity	Scale	Crushing, grinding or separating	Crushing, grinding or separating	> 500000 - 2000000 T annual processing capacity	Extractive activities	Land-based extractive activity	> 500000 - 2000000 T annual capacity to extract, process or store	Teralba Quarry 2020 Annual Review Project Approval PA10_0183 Teralba Quarry 2021 Annual Review Project Approval PA10_0183, March 2022 Site interview	2020 – 630 746t 2021 – 881,758t 2022 - 945 173t	Compliant				
Scheduled Activity	Fee Based Activity	Scale																
Crushing, grinding or separating	Crushing, grinding or separating	> 500000 - 2000000 T annual processing capacity																
Extractive activities	Land-based extractive activity	> 500000 - 2000000 T annual capacity to extract, process or store																
115.	L2.1	<div>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.</div> <table><tr><th>Pollutant</th><th>Units of Measure</th><th>100 percentile Concentration limit</th></tr><tr><td>Oil and Grease</td><td>milligrams per litre</td><td>10</td></tr><tr><td>pH</td><td>pH</td><td>6.5-8.5</td></tr><tr><td>Total Suspended Solids</td><td>milligrams per litre</td><td>50</td></tr></table>	Pollutant	Units of Measure	100 percentile Concentration limit	Oil and Grease	milligrams per litre	10	pH	pH	6.5-8.5	Total Suspended Solids	milligrams per litre	50	Monthly Monitoring Summaries January 2020 to January 2023	Monitoring conducted at points 5, 6 and 7 during discharge. Exceedances of the TSS levels were reported during a high rainfall event on 27, 28 and 29/07/2020.	Compliant	
Pollutant	Units of Measure	100 percentile Concentration limit																
Oil and Grease	milligrams per litre	10																
pH	pH	6.5-8.5																
Total Suspended Solids	milligrams per litre	50																
116.	L2.5	Discharges from Points 6 and 7 are only permitted when the quantity and duration of the rainfall event exceeds a 1 in 50 year Annual Rainfall Intensity (ARI).	Monthly Monitoring Summaries January 2020 to January 2023	No operations have been conducted in the northern extension. Reported that no discharge from the site has occurred at these locations.	Not triggered													

JHC Ref No	Cond. No.	Condition	Evidence	Finding and Recommendations	Compliance rating	Issue No												
117.	L3.1	<div>For each discharge point or utilisation area specified below (by a point number), the volume/mass of: a) liquids discharged to water; or; b) solids or liquids applied to the area; must not exceed the volume/mass limit specified for that discharge point or area.</div> <table><thead><tr><th>Point</th><th>Units of Measure</th><th>100 percentile Concentration limit</th></tr></thead><tbody><tr><td>4</td><td>kilolitres per day</td><td></td></tr><tr><td>5</td><td>kilolitres per day</td><td>2000</td></tr><tr><td>5</td><td>megalitres per year</td><td>113</td></tr></tbody></table>	Point	Units of Measure	100 percentile Concentration limit	4	kilolitres per day		5	kilolitres per day	2000	5	megalitres per year	113	Monthly Monitoring Summaries January 2020 to January 2023	Records of discharge from Dam 5 maintained (flowmeter). Records of cumulative volumes maintained. 53.7ML discharged since 2013. Data downloaded on a monthly basis. Daily readings not available to demonstrate compliance with daily discharge limits. Maximum monthly discharge from Point 5 10ML (daily average of 322kL/day July 2020; 912kL/ day March 2021). Total discharge 2020 14.3ML 2021 – 34.2ML.	Compliant	
Point	Units of Measure	100 percentile Concentration limit																
4	kilolitres per day																	
5	kilolitres per day	2000																
5	megalitres per year	113																
118.	L4.1	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.	Site interview	No waste has been received at the site. Concrete waste received at the pug mill site, which is managed through EPL 13015.	Not triggered													
119.	L4.2	<div>The licensee must not cause, permit or allow any waste to be received at the premises, except the wastes expressly referred to in the column titled “Waste” and meeting the definition, if any, in the column titled “Description” in the table below.</div> <div>Any waste received at the premises must only be used for the activities referred to in relation to that waste in the column titled “Activity” in the table below.</div> <div>Any waste received at the premises is subject to those limits or conditions, if any, referred to in relation to that waste contained in the column titled “Other Limits” in the table below.</div>	Site interview	No waste has been received at the site.	Not triggered													

JHC Ref No	Cond. No.	Condition					Evidence	Finding and Recommendations	Compliance rating	Issue No
		This condition does not limit any other conditions in this licence.								
		Code	Waste	Description	Activity	Other Limits				
		NA	Concrete	Only concrete waste products received at the premises that is below licensing threshold in Schedule 1 of the Protection of the Environment Operations Act 1997 (POEO Act), in force from time to time.	As specified in each particular resource recovery exemption	Incorporated into various products must meet all conditions of the "Recovered Aggregate Exemption 2010" resource Recovery exemption under Clause 51 and Clause 51A of the Protection of Environment Operations (Waste) Regulation 2005 (POEO Waste Regulation).				
120.	L5.1	Where a noise limit has not been prescribed, all operations and activities occurring on the premises must be conducted in a manner that will not cause offensive noise.					August 2020 Noise Monitoring Report – Teralba Quarry, Spectrum Acoustics August 2021 Noise Monitoring Report – Teralba Quarry, Spectrum Acoustics November 2021 Noise Monitoring Report – Teralba Quarry, Spectrum Acoustics September 2021 Noise Monitoring Report – Teralba Quarry, Spectrum Acoustics	One noise complaint have been received as a result of quarry activities (noise complaint regarding truck brake noise) Noise exceedances at two locations (D, E) on 16 August 2021. Additional noise monitoring conducted November 2021 following implementation of additional noise management measures. Results of this noise survey showed management measures were effective in reducing emitted noise levels.	Not Compliant	NC-02

JHC Ref No	Cond. No.	Condition				Evidence	Finding and Recommendations	Compliance rating	Issue No																																				
							Recommendation: Where significant changes to quarry operations are planned, the potential noise impact of the planned changes should be reviewed to ensure that the changes do not result in noise level exceedances.																																						
121.	5.2	<p>Noise generated at the premises that is measured at each noise monitoring point established under this licence must not exceed the noise levels specified in Column 4 of the table below for that point during the corresponding time periods specified in Column 1 when measured using the corresponding measurement parameters listed in Column 2.</p> <p>Point 12</p> <table><tr><th>Time period</th><th>Measurement parameter</th><th>Measurement frequency</th><th>Noise level dB(A)</th></tr><tr><td>Day-Shoulder</td><td>Day Shoulder-LAeq (15 minute)</td><td></td><td>38</td></tr><tr><td>Day</td><td>Day-LAeq (15 minute)</td><td></td><td>38</td></tr><tr><td>Evening</td><td>Evening-LAeq (15 minute)</td><td></td><td>37</td></tr></table> <p>POINT 12,13,14,15,16,17,18</p> <table><tr><th>Time period</th><th>Measurement parameter</th><th>Measurement frequency</th><th>Noise level dB(A)</th></tr><tr><td>Night</td><td>Night-LAeq (15 minute)</td><td></td><td>35</td></tr><tr><td>Night</td><td>Night-LA1 (1 minute)</td><td></td><td>45</td></tr></table> <p>Point 13</p> <table><tr><th>Time period</th><th>Measurement parameter</th><th>Measurement frequency</th><th>Noise level dB(A)</th></tr><tr><td></td><td></td><td></td><td></td></tr></table>				Time period	Measurement parameter	Measurement frequency	Noise level dB(A)	Day-Shoulder	Day Shoulder-LAeq (15 minute)		38	Day	Day-LAeq (15 minute)		38	Evening	Evening-LAeq (15 minute)		37	Time period	Measurement parameter	Measurement frequency	Noise level dB(A)	Night	Night-LAeq (15 minute)		35	Night	Night-LA1 (1 minute)		45	Time period	Measurement parameter	Measurement frequency	Noise level dB(A)					August 2020 Noise Monitoring Report – Teralba Quarry, Spectrum Acoustics August 2021 Noise Monitoring Report – Teralba Quarry, Spectrum Acoustics November 2021 Noise Monitoring Report – Teralba Quarry, Spectrum Acoustics September 2021 Noise Monitoring Report – Teralba Quarry, Spectrum Acoustics	One noise complaint have been received as a result of quarry activities (noise complaint regarding truck brake noise) Noise exceedances at two locations (D, E) on 16 August 2021. Additional noise monitoring conducted November 2021 following implementation of additional noise management measures. Results of this noise survey showed management measures were effective in reducing emitted noise levels. Recommendation: Where significant changes to quarry operations are planned, the potential noise impact of the planned changes should be reviewed to ensure that the changes do not result in noise level exceedances.	Not Compliant	NC-02
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JHC Ref No	Cond. No.	Condition				Evidence	Finding and Recommendations	Compliance rating	Issue No
		Day-Shoulder	Day Shoulder-LAeq (15 minute)		46				
		Day	Day-LAeq (15 minute)		36				
		Evening	Evening-LAeq (15 minute)		42				
		POINT 14							
		Time period	Measurement parameter	Measurement frequency	Noise level dB(A)				
		Day-Shoulder	Day Shoulder-LAeq (15 minute)		42				
		Day	Day-LAeq (15 minute)		42				
		Evening	Evening-LAeq (15 minute)		35				
		POINT 15, 16, 18							
		Time period	Measurement parameter	Measurement frequency	Noise level dB(A)				
		All hours	LAeq (15 minute)		35				
		POINT 17							
		Time period	Measurement parameter	Measurement frequency	Noise level dB(A)				
		Day-Shoulder	Day Shoulder-LAeq (15 minute)		37				
		Day	Day-LAeq (15 minute)		38				
		Evening	Evening-LAeq (15 minute)		38				
122.	L5.4	The contributed noise level from the premises must not exceed the noise limits specified within this licence at the most noise-affected point on or within the boundary of any residential premises to the north and/or south of the premises, except as expressly provided by this licence, or by the EPA in writing.				August 2020 Noise Monitoring Report – Teralba Quarry, Spectrum Acoustics August 2021 Noise Monitoring Report – Teralba Quarry, Spectrum Acoustics	Noise monitoring conducted by Spectrum Acoustics showed general compliance with noise criteria. Results for August 2021 showed exceedances at two locations.	Not Compliant	NC-02

JHC Ref No	Cond. No.	Condition	Evidence	Finding and Recommendations	Compliance rating	Issue No
			November 2021 Noise Monitoring Report – Teralba Quarry, Spectrum Acoustics September 2021 Noise Monitoring Report – Teralba Quarry, Spectrum Acoustics	Recommendation: Where significant changes to quarry operations are planned, the potential noise impact of the planned changes should be reviewed to ensure that the changes do not result in noise level exceedances.		
123.	L5.5	The noise limits specified within this licence apply under all meteorological conditions except for any one of the following: a) Wind speeds greater than 3 metres/second at 10 metres above ground level; or b) Stability category F temperature inversion conditions and wind speeds greater the 2 metres/second at 10 metres above ground level; or c) Stability category G temperature inversion conditions.	August 2020 Noise Monitoring Report – Teralba Quarry, Spectrum Acoustics August 2021 Noise Monitoring Report – Teralba Quarry, Spectrum Acoustics November 2021 Noise Monitoring Report – Teralba Quarry, Spectrum Acoustics September 2021 Noise Monitoring Report – Teralba Quarry, Spectrum Acoustics	Weather conditions during noise monitoring periods have been recorded and considered in the interpretation of results.	Compliant	
124.	L5.6	For the purpose of the conditions specified within this licence: a) the meteorological data to be used for determining meteorological conditions is the data recorded at the meteorological station identified in this licence as Point 19. b) Stability category temperature inversion conditions are to be determined by the sigma-theta method referred to in Part E4 of Appendix E to the NSW industrial Noise Policy (EPA 2000).	August 2020 Noise Monitoring Report – Teralba Quarry, Spectrum Acoustics August 2021 Noise Monitoring Report – Teralba Quarry, Spectrum Acoustics November 2021 Noise Monitoring Report – Teralba Quarry, Spectrum Acoustics	Noise reports show meteorological data was obtained from the site meteorological station.	Compliant	

JHC Ref No	Cond. No.	Condition	Evidence	Finding and Recommendations	Compliance rating	Issue No
			September 2021 Noise Monitoring Report – Teralba Quarry, Spectrum Acoustics			
125.	L5.7	<p>To determine compliance:</p> <p>a) with the Leq(15 minute) noise limits in the Noise Limits table, the noise measurement equipment must be located:</p> <p>i) approximately on the property boundary, where any dwelling is situated 30 metres or less from the property boundary closest to the premises; or</p> <p>ii) within 30 metres of a dwelling façade, but not closer than 3m, where any dwelling on the property is situated more than 30 metres from the property boundary closest to the premises; or, where applicable</p> <p>iii) within approximately 50 metres of the boundary of a National Park or a Nature Reserve.</p> <p>b) with the LA1(1 minute) noise limits in the Noise Limits table, the noise measurement equipment must be located within 1 metre of a dwelling façade.</p> <p>c) with the noise limits in the Noise Limits table, the noise measurement equipment must be located:</p> <p>i) at the most affected point at a location where there is no dwelling at the location; or</p> <p>ii) at the most affected point within an area at a location prescribed by part (a) or part (b) of this condition.</p>	<p>August 2020 Noise Monitoring Report – Teralba Quarry, Spectrum Acoustics</p> <p>August 2021 Noise Monitoring Report – Teralba Quarry, Spectrum Acoustics</p> <p>November 2021 Noise Monitoring Report – Teralba Quarry, Spectrum Acoustics</p> <p>September 2021 Noise Monitoring Report – Teralba Quarry, Spectrum Acoustics</p>	Monitoring locations identified generally show monitoring was conducted on the quarry side of residences.	Compliant	
126.	L5.8	<p>A non-compliance will still occur where noise generated from the premises in excess of the appropriate noise limit is measured:</p> <p>a) at a location other than an area prescribed by the conditions of this licence, and /or</p> <p>b) at a point other than the most affected point at a location.</p>	<p>August 2021 Noise Monitoring Report – Teralba Quarry, Spectrum Acoustics</p> <p>November 2021 Noise Monitoring Report – Teralba Quarry, Spectrum Acoustics</p>	<p>Noise monitoring has been conducted at agreed locations.</p> <p>Non-compliances have been raised where noise criteria has been exceeded at the monitoring location.</p>	Compliant	

JHC Ref No	Cond. No.	Condition	Evidence	Finding and Recommendations			Compliance rating	Issue No
127.	L5.9	For the purposes of determining the noise generated at the premises the licensee must use a Class 1 or Class 2 noise monitoring device as defined by AS IEC61672.1 and AS IEC61672.2-2004, or other noise monitoring equipment accepted by the EPA in writing.	August 2020 Noise Monitoring Report – Teralba Quarry, Spectrum Acoustics August 2021 Noise Monitoring Report – Teralba Quarry, Spectrum Acoustics November 2021 Noise Monitoring Report – Teralba Quarry, Spectrum Acoustics September 2021 Noise Monitoring Report – Teralba Quarry, Spectrum Acoustics	Class 1 Brüel & Kjaer Type 2250 noise meter used.			Compliant	
128.	L6.1	Blasting operations at the premises may only take place between 10:00 am and 4:00 pm Monday to Friday. No blasting is allowed on weekends, public holidays, or any other time without written approval from the EPA.	Monthly monitoring	Blast monitoring records show that all blasts have occurred between 10:00 am and 4:00 pm Monday to Friday.			Compliant	
129.	L6.2	The licensee is only permitted to carry out one (1) blast per day at the premises, unless an additional blast is required following a blast misfire.	Blast Monitoring Records January to December 2020 Blast Monitoring Records January to December 2021 Blast Monitoring Records January to December 2022	Records show that a maximum of one blast has occurred per day. A&B Blasts			Compliant	
130.	L6.3	The airblast overpressure level from blasting operations in or on the premises must not exceed: a) 115 dB (Lin Peak) for more than 5% of the total number of blasts during each reporting period; and b) 120 dB (Lin Peak) at any time. At any sensitive noise location. Error margins associated with any monitoring equipment used to measure this are not to be taken into account in determining whether or not the limit has been exceeded.	Blast Monitoring Records January to December 2020 Blast Monitoring Records January to December 2021 Blast Monitoring Records January to December 2022	Year	Total No. of Blasts	No. of Exceedances of criteria	Not Compliant	NC-03
				1 Jan 2020 to 31 Dec 2020	21	3		
				1 Jan 2021 to 31 Dec 2021	26	0		

JHC Ref No	Cond. No.	Condition	Evidence	Finding and Recommendations	Compliance rating	Issue No
				<div>1 Jan 2022 to 31 Dec 2022</div> <div>25</div> <div>0</div> <p>Blast monitoring conducted at locations 1 and 2.</p> <p>Airblast overpressure and ground vibration were not measured at Location 3 as no blasting was undertaken north of Rhondda Road during the reporting period.</p> <p>Recommendation:</p> <p>Subsequent to the blast exceedances, Metromix have implemented processes to manage blasts and ensure compliance with blast criteria. No further exceedances have occurred.</p> <p>No further action required.</p>		
131.	L6.4	<p>The ground vibration peak particle velocity from blasting operations carried out in or on the premises must not exceed:</p> <p>a) 5 mm/s for more than 5% of the total number of blasts carried out on the premises during each reporting period; and</p> <p>b) 10 mm/s at any time.</p> <p>At any noise sensitive location. Error margins associated with any monitoring equipment used to measure this are not to be taken into account in determining whether or not the limit has been exceeded.</p>	<p>Blast Monitoring Records January to December 2020</p> <p>Blast Monitoring Records January to December 2021</p> <p>Blast Monitoring Records January to December 2022</p>	All recorded ground vibration peak particle velocity results have been less than 5mm/s Maximum recorded level since January 2017 - 1.07mm/s.	Compliant	
132.	L6.5	Blasting limits apply at any residence, or noise sensitive location that is not owned by the licensee or subject of a private agreement between the owner of the residence or noise sensitive location and the licensee as to an alternative ground vibration or overpressure level.		Noted	Compliant	

AUDIT CHECKLIST – EPL 536
Company: Metromix Teralba Quarry

James Hart Consulting
Date: 6 February 2023

JHC Ref No	Cond. No.	Condition	Evidence	Finding and Recommendations	Compliance rating	Issue No																
133.	L7.1	<div>The licensee must comply with the operating hours specified in Column 2, Column 3, and Column 4 of the table below:</div> <table><tr><th>Day</th><th>Loading and Dispatch of Quarry Trucks</th><th>Extraction and Processing</th><th>Receipt Of Concrete</th></tr><tr><td>Monday to Friday</td><td>4am Monday to midnight Friday</td><td>7am to 7pm</td><td>7am to 5pm</td></tr><tr><td>Saturday</td><td>Midnight Friday to 6pm Saturday</td><td>7am to 2pm</td><td>7am to 2pm</td></tr><tr><td>Sundays and Public Holidays</td><td>none</td><td>none</td><td>none</td></tr></table>	Day	Loading and Dispatch of Quarry Trucks	Extraction and Processing	Receipt Of Concrete	Monday to Friday	4am Monday to midnight Friday	7am to 7pm	7am to 5pm	Saturday	Midnight Friday to 6pm Saturday	7am to 2pm	7am to 2pm	Sundays and Public Holidays	none	none	none	Site interview Metromix Quarry Employee/Contractor Teralba Site Induction	Operations at the Metromix Teralba Quarry have occurred within the hours of operation specified in EPL 536 Condition L7.1, Project Approval 08_0183 Schedule 3 condition 6.	Compliant	
Day	Loading and Dispatch of Quarry Trucks	Extraction and Processing	Receipt Of Concrete																			
Monday to Friday	4am Monday to midnight Friday	7am to 7pm	7am to 5pm																			
Saturday	Midnight Friday to 6pm Saturday	7am to 2pm	7am to 2pm																			
Sundays and Public Holidays	none	none	none																			
134.	7.2	This condition does not apply to the delivery of material outside the hours of operation permitted by condition L7, 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 affected residents as soon as possible or within a reasonable period in the case of emergency.			Not triggered																	
135.	7.3	<div>The licensee must provide the following within 48 hours of notifying the EPA:</div> <div>a) supporting documentation from the requesting agency or other authorities outlining the purpose and circumstances involving the delivery outside the hours of operations specified within this licence;</div> <div>b) evidence of notification of affected residents;</div> <div>c) letter of approval of delivery from the Minister for Planning & Environment;</div> <div>d) time and location of delivery;</div> <div>e) type and volume of products delivered;</div> <div>f) the name, address and business hours telephone number of persons and/or authorities relevant to the delivery; and</div> <div>g) any other relevant matters.</div>			Not triggered																	

JHC Ref No	Cond. No.	Condition	Evidence	Finding and Recommendations	Compliance rating	Issue No
136.	L8.1	No condition of this licence identifies a potentially offensive odour for the purposes of Section 129 of the Protection of the Environment Operations Act 1997.		No offensive odours have been emitted.	Compliant	
137.	L8.2	The licensee must not cause or permit the emission of offensive odour beyond the boundary of the premises.		No offensive odours have been emitted.	Compliant	
Operating Conditions						
138.	O1.1	Licensed activities must be carried out in a competent manner. This includes: a) the processing, handling, movement and storage of materials and substances used to carry out the activity; and b) the treatment, storage, processing, reprocessing, transport and disposal of waste generated by the activity.	Site inspection	The processing, handling, movement and storage of materials and substances used to carry out the Teralba Quarry activities are carried out in a competent manner. Waste segregation practices implemented. Suitable facilities for storage of oils and chemicals provided. Spill kits provided.	Compliant	
139.	O2.1	All plant and equipment installed at the premises or used in connection with the licensed activity: a) must be maintained in a proper and efficient condition; and b) must be operated in a proper and efficient manner.	Maintenance Records Conveyors CV-01 to CV-15. W/O No 37065 Check and Clean Rollers Weekly Inspection of CV-01 24/10/2022. Crusher Plant CR-01, CR-02. CR-03 and Chutes inspections. Water Cart WC-001 Records. WC001 CCESS AND Egress Checklist Mobile plant 3 Monthly Inspection Checklist	Records of maintenance of plant and equipment available. Metromix use MEX for managing plant maintenance and servicing. Records reviewed for Front End Loader WL002, Excavator EX001. 24/06/19 – 12 month fire suppression inspection and servicing.	Compliant	

JHC Ref No	Cond. No.	Condition	Evidence	Finding and Recommendations	Compliance rating	Issue No
			Mechanical Service Sheet WC001 30/12/2022. Komatsu Rigid Truck – RD-003 maintenance records Komatsu WL001 Loader maintenance records. – PM Service Report 24/09/2022.			
140.	O2.2	For the purpose of the above condition plant is defined in the dictionary. The type of plant that should be considered includes, but is not limited to, Underground Petroleum Storage Systems (UPSS), drainage systems, infrastructure and pollution control equipment such as (but not limited to) spill containment and clean-up equipment; dust screens and collectors; sediment collection systems; traps and sumps; waste collection; storage and disposal equipment.		No Underground Petroleum Storage Systems on site. Regular inspections and maintenance of drainage systems and pollution control equipment was conducted. Spill equipment and waste storage containers were provided.	Compliant	
141.	O3.1	The premises must be maintained in a condition which minimises or prevents the emission of dust from the premises	Air Quality Management Plan, Rev 06, 9 December 2019. Site Inspection	Operations and activities at the Teralba Quarry were observed to be managed to minimise the generation and emission of dust from the premises. Regular inspections of site conditions were conducted. Water cart used for dust suppression.	Compliant	
142.	O3.2	All operations and activities occurring at the premises must be carried out in a manner that will minimise the emission of dust from the premises.	Air Quality Management Plan, Rev 06, 9 December 2019. Site Inspection	Controls to minimise dust emissions were identified in the AQMP. Equipment had been provided to minimise dust emissions. Water carts used for reducing dust from road use. Sprays provided on	Compliant	

JHC Ref No	Cond. No.	Condition	Evidence	Finding and Recommendations	Compliance rating	Issue No
				conveyor systems and transfer points to minimise dust emissions.		
143.	O4.1	Within three months of the date of the issue of this licence, the licensee must develop, or update, an emergency response plan which documents the procedures to deal with all types of incidents (e.g. spill, explosions or fire) that may occur at the premises or outside of the premises (e.g. during transfer) which are likely to cause harm to the environment.	Pollution Incident Response Management Plan, March 2019.	Teralba Quarry Emergency Response Plan, 11 October 2019 available. Pollution Incident Response Management Plan, March 2019.	Compliant	
144.	O5.1	Bunds must: a) have walls and floors constructed of impervious materials; b) be of sufficient capacity to contain 110% of the volume of the tank (or 110% volume of the largest tank where a group of tanks are installed); c) have floors graded to a collection sump; and d) not have a drain valve incorporated in the bund structure,	Site inspection	Bund walls and floors of the areas around above ground storage tanks have been constructed in accordance with AS 1940. Oils lubricants and other chemicals used on site were stored in a roofed building with bunded concrete floor.	Compliant	
145.	O5.2	The drainage from all areas that will mobilise suspended solids when stormwater runs over these areas must be controlled and diverted through appropriate erosion and sediment control measures.	Site inspection Quarry Slope Stability Checklist	Surface runoff from disturbed areas of the Teralba Quarry site is collected and retained in sediment basins. Inspection of sediment controls included in the Quarry Slope Stability Checklist.	Compliant	
146.	O5.3	All erosion and sediment control measures including sedimentation basins must be maintained to ensure that their design capacity is available at all times for the storage and treatment of all run off received from all drainage areas at the premises.	Site inspection	Regular environmental inspections were conducted to monitor erosion and sediment control structures. No releases of turbid water from the sediment basins direct to the environment occurred between January 2017 and January 2020.	Compliant	

JHC Ref No	Cond. No.	Condition	Evidence	Finding and Recommendations	Compliance rating	Issue No
147.	O6.1	The licensee must ensure that activities are conducted in an environmentally satisfactory manner. So as to minimise and prevent the pollution of air and water the licensee must: (a) Ensure that vehicles or containers prior to leaving the premises are clean and sealed in a manner that will not cause materials or wastes used in conducting the activities at the premises to be tracked, thrown from, blown, fall, or cast from any vehicle or container onto a public road. (b) The licensee must have in place and implement procedures to ensure that vehicles and containers exiting the premises are in a condition to ensure that materials are not tracked, thrown, blown, fall or cast onto a public road.	Site inspection	Wheel wash facility provided at exits from the quarry site to remove any loose material from vehicles. Loads are covered to reduce potential loss of material from the trucks onto public roads.	Compliant	
148.	O6.2	All above-ground tanks containing material that is likely to cause environmental harm must be bunded or have an alternative spill containment system in place.	Site Inspection	The above-ground storage tank for fuel and oils are bunded.	Compliant	
Monitoring Conditions						
149.	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.	Monthly Monitoring Summaries January 2020 to January 2023	Records of monitoring were readily available on site and on the company website.	Compliant	
150.	M1.2	All records required to be kept by this licence must be: a) in a legible form, or in a form that can readily be reduced to a legible form; b) kept for at least 4 years after the monitoring or event to which they relate took place; and c) produced in a legible form to any authorised officer of the EPA who asks to see them		Hard and soft copies of records available. Reports provided by consultants obtained in soft copy and filed. Back-ups of data reported to be conducted daily.	Compliant	
151.	M1.3	The following records must be kept in respect of any samples required to be collected for the purposes of this licence: a) the date(s) on which the sample was taken; b) the time(s) at which the sample was collected; c) the point at which the sample was taken; and d) the name of the person who collected the sample.	September 2021 Noise Monitoring Report – Teralba Quarry, Spectrum Acoustics	Chain of custody form completed for dust gauge monitoring. Reports provided by consultants for particulate monitoring, and noise monitoring.	Compliant	

JHC Ref No	Cond. No.	Condition	Evidence	Finding and Recommendations	Compliance rating	Issue No																				
				Water monitoring CoC forms sighted – completed by site staff.																						
Requirement to monitor concentration of pollutants discharged																										
152.	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:		Sampling and analysis has been conducted in accordance with the sampling methods specified. Analysis by NATA accredited laboratory.	Compliant																					
153.	M2.2	Air Monitoring Requirements POINT 1,8,9,10,11 <table><tr><td>Pollutant</td><td>Unit of Measure</td><td>Frequency</td><td>Sampling Method</td></tr><tr><td>Particulates - Deposited Matter</td><td>grams per square metre per month</td><td>Once a month (min. of 4 weeks)</td><td>AM-19</td></tr></table> Point 3 <table><tr><td>Pollutant</td><td>Unit of Measure</td><td>Frequency</td><td>Sampling Method</td></tr><tr><td>PM10</td><td>micrograms per cubic metre</td><td>Every 6 days</td><td>AM-18</td></tr></table>	Pollutant	Unit of Measure	Frequency	Sampling Method	Particulates - Deposited Matter	grams per square metre per month	Once a month (min. of 4 weeks)	AM-19	Pollutant	Unit of Measure	Frequency	Sampling Method	PM10	micrograms per cubic metre	Every 6 days	AM-18	Monthly Monitoring Summaries January 2020 to January 2023	Sampling for PM10 not conducted 3/01/2020 or 9/01/2020 due to equipment failure. Recommendation: Metromix should ensure that monitoring is undertaken in accordance with the approved AQMP.	Non-Compliant	NC-04				
Pollutant	Unit of Measure	Frequency	Sampling Method																							
Particulates - Deposited Matter	grams per square metre per month	Once a month (min. of 4 weeks)	AM-19																							
Pollutant	Unit of Measure	Frequency	Sampling Method																							
PM10	micrograms per cubic metre	Every 6 days	AM-18																							
154.	M2.3	Water and/ or Land Monitoring Requirements Point 4 <table><tr><td>Pollutant</td><td>Unit of Measure</td><td>Frequency</td><td>Sampling Method</td></tr><tr><td>Electrical conductivity</td><td>microsiemens per centimetre</td><td>Monthly</td><td>Grab sample</td></tr><tr><td>Oil and Grease</td><td>milligrams per litre</td><td>Monthly</td><td>Grab sample</td></tr><tr><td>pH</td><td>pH</td><td>Monthly</td><td>Grab sample</td></tr><tr><td>Total suspended solids</td><td>milligrams per litre</td><td>Monthly</td><td>Grab sample</td></tr></table> Point 5	Pollutant	Unit of Measure	Frequency	Sampling Method	Electrical conductivity	microsiemens per centimetre	Monthly	Grab sample	Oil and Grease	milligrams per litre	Monthly	Grab sample	pH	pH	Monthly	Grab sample	Total suspended solids	milligrams per litre	Monthly	Grab sample	Monthly Monitoring Summaries January 2020 to January 2023	Water monitoring conducted for the Teralba Quarry site currently includes: <ul style="list-style-type: none">EPA Identification No. 4 - Overflow point from the Mine Adit Dam labelled as "3" in Figure C titled "Water monitoring"; andEPA Identification No. 5 - Overflow point from Dam B labelled as "4" in Figure C titled "Water monitoring";	Not Compliant	NC-09
Pollutant	Unit of Measure	Frequency	Sampling Method																							
Electrical conductivity	microsiemens per centimetre	Monthly	Grab sample																							
Oil and Grease	milligrams per litre	Monthly	Grab sample																							
pH	pH	Monthly	Grab sample																							
Total suspended solids	milligrams per litre	Monthly	Grab sample																							

JHC Ref No	Cond. No.	Condition					Evidence	Finding and Recommendations	Compliance rating	Issue No						
		Pollutant	Unit of Measure	Frequency	Sampling Method			in accordance with EPL condition M2.3.								
		Electrical conductivity	microsiemens per centimetre	Special Frequency 1	Grab sample			EPA monitoring points 6 and 7 are in the Northern Extension Area. No water has been released from Dam J or Dam K between January 2020 and								
		Oil and Grease	milligrams per litre	Special Frequency 1	Grab sample			January 2023, so no water monitoring occurred.								
		pH	pH	Special Frequency 1	Grab sample			No sample was collected from EPA Point 4 in November 2020 following a change of personnel.								
		Total suspended solids	milligrams per litre	Special Frequency 1	Grab sample			Recommendation:								
		Point 6, 7						Metromix should ensure that, where a change in personnel occurs, a thorough handover is conducted to ensure the new worker understands all requirements of the role.								
		Pollutant	Unit of Measure	Frequency	Sampling Method											
		Electrical conductivity	microsiemens per centimetre	Special Frequency 2	Grab sample											
		Oil and Grease	milligrams per litre	Special Frequency 2	Grab sample											
		pH	pH	Special Frequency 2	Grab sample											
		Total suspended solids	milligrams per litre	Special Frequency 2	Grab sample											
		155.	M2.4	For the purpose of the table(s) above Special Frequency 1 means the collection of samples within 12 hours of commencing discharge.								No discharge requiring monitoring at Points 6 or 7.	Not Triggered			
		156.	M2.5	For the purpose of the table(s) above Special Frequency 2 means the collection of samples within 8 hours of commencing discharge and weekly thereafter during discharge.								No discharge requiring monitoring at Points 6 or 7.	Not Triggered			
157.	M3.1	Monitoring for the concentration of a pollutant emitted to the air required to be conducted by this licence must be done in accordance with: a) any methodology which is required by or under the Act to be used for the testing of the concentration of the pollutant; or					ALS Certificate of Analysis ES2101487.0, 17/03/2021 ALS Chain of Custody EN2101487 1/03/2021	Sampling and analysis has been conducted in accordance with the sampling methods specified. Analysis by NATA accredited laboratory.	Compliant							

JHC Ref No	Cond. No.	Condition	Evidence	Finding and Recommendations	Compliance rating	Issue No																																
		b) if no such requirement is imposed by or under the Act, any methodology which a condition of this licence requires to be used for that testing; or c) if no such requirement is imposed by or under the Act or by a condition of this licence, any methodology approved in writing by the EPA for the purposes of that testing prior to the testing taking place.																																				
158.	M3.2	Subject to any express provision to the contrary in this licence, monitoring for the concentration of a pollutant discharged to waters or applied to a utilisation area must be done in accordance with the Approved Methods Publication unless another method has been approved by the EPA in writing before any tests are conducted	ALS Certificate of Analysis ES2107102.0 8/03/2021 ALS Chain of Custody ES2107102 1/03/2021	Sampling and analysis has been conducted in accordance with the sampling methods specified. Analysis by NATA accredited laboratory.	Compliant																																	
159.	M4.1	Weather monitoring At the point(s) identified below, the licensee must monitor (by sampling and obtaining results by analysis) the parameters specified in Column 1 of the table below, using the corresponding sampling method, units of measure, averaging period and sampling frequency, specified opposite in the Columns 2, 3, 4 and 5 respectively. <table><tr><td>Parameter</td><td>Method</td><td>Unit of Measure</td><td>Averaging Period</td><td>Frequency</td></tr><tr><td>Rainfall</td><td>AM-4</td><td>mm</td><td>1 hour</td><td rowspan="8">Continuous</td></tr><tr><td>Wind Direction @10m</td><td rowspan="2">AM-2 & AM-4</td><td>Degrees</td><td rowspan="6">15 mins</td></tr><tr><td>Wind speed @10m</td><td>m/s</td></tr><tr><td>Temp @ 2m</td><td>AM-4</td><td>Degrees Celsius</td></tr><tr><td>Temp @ 10m</td><td>AM-4</td><td>Degrees Celsius</td></tr><tr><td>Sigma- Theta</td><td>AM-2 & AM- 4</td><td>Degrees</td></tr><tr><td>Solar radiation</td><td>AM-4</td><td>Watts/m2</td></tr><tr><td>Relative humidity</td><td>AM-4</td><td>%</td><td>1 hour</td></tr></table>	Parameter	Method	Unit of Measure	Averaging Period	Frequency	Rainfall	AM-4	mm	1 hour	Continuous	Wind Direction @10m	AM-2 & AM-4	Degrees	15 mins	Wind speed @10m	m/s	Temp @ 2m	AM-4	Degrees Celsius	Temp @ 10m	AM-4	Degrees Celsius	Sigma- Theta	AM-2 & AM- 4	Degrees	Solar radiation	AM-4	Watts/m2	Relative humidity	AM-4	%	1 hour	Site Inspection	Meteorological Station installed and used to collect weather data.	Compliant	
Parameter	Method	Unit of Measure	Averaging Period	Frequency																																		
Rainfall	AM-4	mm	1 hour	Continuous																																		
Wind Direction @10m	AM-2 & AM-4	Degrees	15 mins																																			
Wind speed @10m		m/s																																				
Temp @ 2m	AM-4	Degrees Celsius																																				
Temp @ 10m	AM-4	Degrees Celsius																																				
Sigma- Theta	AM-2 & AM- 4	Degrees																																				
Solar radiation	AM-4	Watts/m2																																				
Relative humidity	AM-4	%	1 hour																																			
160.	M4.2	For the purpose of condition above, Point 19 refers to the meteorological station established on the premises.	Site inspection	Weather monitoring conducted at Point 19.	Compliant																																	

AUDIT CHECKLIST – EPL 536
Company: Metromix Teralba Quarry

James Hart Consulting
Date: 6 February 2023

JHC Ref No	Cond. No.	Condition	Evidence	Finding and Recommendations	Compliance rating	Issue No
161.	M4.3	Within one month of the date of issue of this licence, a site plan prepared by a registered surveyor identifying specific location of, including the grid coordinates of Point 19 must be submitted to the EPA in both electronic and hard copy formats.	Independent Environmental Audit: Teralba Quarry Development Consent PA 10-0183, AQUAS, February 2020	Site Plan had been prepared prior to the previous audit – EPL 536 Variation which include all monitoring locations, including Point 19 (Meteorological Station). Verified previous audit.	Compliant	
162.	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.	https://www.metromix.com.au/resources/	Complaint register maintained electronically	Compliant	
163.	M5.2	The record must include details of the following: a) the date and time of the complaint; b) the method by which the complaint was made; c) any personal details of the complainant which were provided by the complainant or, if no such details were provided, a note to that effect; d) the nature of the complaint; e) the action taken by the licensee in relation to the complaint, including any follow-up contact with the complainant; and f) if no action was taken by the licensee, the reasons why no action was taken.	https://www.metromix.com.au/resources/ 2022 Community Complaints	Complaints register includes required information.	Compliant	
164.	M5.3	The record of a complaint must be kept for at least 4 years after the complaint was made.	https://www.metromix.com.au/resources/	Records maintained indefinitely.	Compliant	
165.	M5.4	The record must be produced to any authorised officer of the EPA who asks to see them.	https://www.metromix.com.au/resources/	Records are readily available electronically on the website.	Compliant	
166.	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.	https://www.metromix.com.au/resources/	Contact telephone numbers for Metromix head office and Teralba Quarry site is on the signage at the entrance to the Teralba Quarry site from Rhondda Road and are listed	Compliant	

JHC Ref No	Cond. No.	Condition	Evidence	Finding and Recommendations	Compliance rating	Issue No															
				on the Metromix website – Contacts.																	
167.	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.		Contact telephone numbers for Metromix head office and Teralba Quarry site is on the signage at the entrance to the Teralba Quarry site from Rhonda Road and are listed on the Metromix website – Contacts.	Compliant																
M7 Requirement to monitor volume or mass																					
168.	M7.1	<div>For each discharge point or utilisation area specified below, the licensee must monitor: a) the volume of liquids discharged to water or applied to the area; b) the mass of solids applied to the area; c) the mass of pollutants emitted to the air; at the frequency and using the method and units of measure, specified below.</div> <div>Point 4</div> <table><tr><th>Frequency</th><th>Unit of Measure</th><th>Sampling Method</th></tr><tr><td>Continuous during discharge</td><td>kilolitres per day</td><td>Flow meter and continuous logger</td></tr></table> <div>POINT 5</div> <table><tr><th>Frequency</th><th>Unit of Measure</th><th>Sampling Method</th></tr><tr><td>Continuous during discharge</td><td>kilolitres per day</td><td>Flow meter and continuous logger</td></tr></table> <div>POINT 5</div> <table><tr><th>Frequency</th><th>Unit of Measure</th><th>Sampling Method</th></tr></table>	Frequency	Unit of Measure	Sampling Method	Continuous during discharge	kilolitres per day	Flow meter and continuous logger	Frequency	Unit of Measure	Sampling Method	Continuous during discharge	kilolitres per day	Flow meter and continuous logger	Frequency	Unit of Measure	Sampling Method	Site inspection	Continuous logger used to monitor and record flow rate and volume from the Mine Adit dam (Point 4).	Compliant	
Frequency	Unit of Measure	Sampling Method																			
Continuous during discharge	kilolitres per day	Flow meter and continuous logger																			
Frequency	Unit of Measure	Sampling Method																			
Continuous during discharge	kilolitres per day	Flow meter and continuous logger																			
Frequency	Unit of Measure	Sampling Method																			

JHC Ref No	Cond. No.	Condition			Evidence	Finding and Recommendations	Compliance rating	Issue No																
		Continuous during discharge	megalitres per year	Flow meter and continuous logger																				
Blasting																								
169.		To determine compliance: a) Airblast pressure and ground vibration must be measured at any residence or noise sensitive location that is likely to be most affected and is not owned by the licensee or subject of a private agreement between the owner of the residence or noise sensitive site and the licensee as to an alternative blasting level - for all blasts carried out in or on the premises; and b) Instrumentation used to measure the airblast overpressure and ground vibration must meet the requirements of Australian Standard AS2187.2-2006			Blast Monitoring Records January to December 2020 Blast Monitoring Records January to December 2021 Blast Monitoring Records January to December 2022	All Teralba Quarry blasts are monitored for overpressure and vibration at fixed blast monitors in accordance with the approved locations.	Compliant																	
Noise Monitoring																								
170.		To assess compliance with the noise limits specified within this licence, the licensee must undertake operator attended noise monitoring at each specified noise monitoring point in accordance with the table below. POINT 12,13,15,16,18 <table><tr><th>Assessment period</th><th>Minimum frequency in a reporting period</th><th>Minimum duration within assessment period</th><th>Minimum number of assessment period</th></tr><tr><td>Day</td><td>Yearly</td><td>1.5 hours</td><td>3 consecutive operation days</td></tr><tr><td>Evening</td><td>Yearly</td><td>30 minutes</td><td>3 consecutive operation days</td></tr><tr><td>Night</td><td>Yearly</td><td>1 hour</td><td>3 consecutive operation days</td></tr></table>			Assessment period	Minimum frequency in a reporting period	Minimum duration within assessment period	Minimum number of assessment period	Day	Yearly	1.5 hours	3 consecutive operation days	Evening	Yearly	30 minutes	3 consecutive operation days	Night	Yearly	1 hour	3 consecutive operation days	August 2020 Noise Monitoring Report – Teralba Quarry, Spectrum Acoustics August 2021 Noise Monitoring Report – Teralba Quarry, Spectrum Acoustics November 2021 Noise Monitoring Report – Teralba Quarry, Spectrum Acoustics September 2021 Noise Monitoring Report – Teralba Quarry, Spectrum Acoustics	Noise monitoring conducted by consultant – Spectrum Acoustics. Results reported were 15 minute averages. Reported by the Noise consultant that the noise monitoring was conducted for the minimum duration but reporting was for the maximum levels measured.	Compliant	
Assessment period	Minimum frequency in a reporting period	Minimum duration within assessment period	Minimum number of assessment period																					
Day	Yearly	1.5 hours	3 consecutive operation days																					
Evening	Yearly	30 minutes	3 consecutive operation days																					
Night	Yearly	1 hour	3 consecutive operation days																					

JHC Ref No	Cond. No.	Condition	Evidence	Finding and Recommendations	Compliance rating	Issue No
171.		The licensee must undertake the operator attended noise monitoring at each one of or at one or more noise monitoring points that is representative of the worse-case location(s) listed in this licence.	August 2020 Noise Monitoring Report – Teralba Quarry, Spectrum Acoustics August 2021 Noise Monitoring Report – Teralba Quarry, Spectrum Acoustics November 2021 Noise Monitoring Report – Teralba Quarry, Spectrum Acoustics September 2021 Noise Monitoring Report – Teralba Quarry, Spectrum Acoustics	Operator attended noise monitoring had been conducted at all locations.	Compliant	
Reporting Conditions						
Annual Return Documents						
172.	R1.1	The licensee must complete and supply to the EPA an Annual Return in the approved form comprising: a) a Statement of Compliance; and b) a Monitoring and Complaints Summary. At the end of each reporting period, the EPA will provide to the licensee a copy of the form that must be completed and returned to the EPA.	https://apps.epa.nsw.gov.au/prp/oeoapp/Detail.aspx?instid=536&id=536&option=licence&searchrange=licence&range=POEO%20licence&prp=no&status=Issued	Annual returns completed and submitted Verified on EPA Public Register	Compliant	
173.	R1.5	The Annual Return for the reporting period must be supplied to the EPA 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').	https://apps.epa.nsw.gov.au/prp/oeoapp/Detail.aspx?instid=536&id=536&option=licence&searchrange=licence&range=POEO%20licence&prp=no&status=Issued	Due 30 July. 2020 Return received 28/07/2020 2021 Return received 20/07/2021 2022 Return received 25/07/2022.	Compliant	
174.	R1.7	Within the Annual Return, the Statement of Compliance must be certified and the Monitoring and Complaints Summary must be signed by: a) the licence holder; or		Signed by Metromix General Manager.	Compliant	

JHC Ref No	Cond. No.	Condition	Evidence	Finding and Recommendations	Compliance rating	Issue No
		b) by a person approved in writing by the EPA to sign on behalf of the licence holder.				
175.	R1.8	The licensee must report any exceedance of the licence blasting limits to the regional office of the EPA as soon as practicable after the exceedance becomes known to the licensee or to one of the licensee's employees or agents.	Email to DPE 13/02/2020	Three exceedances of the blast limits has been measured. All blast exceedances had been reported to the EPA as soon as practicable after the exceedance. Blast exceedance 13/02/2020 reported to EPA 13/2/2020 Blast Exceedance 16/03/2020 reported 17/03/2020 (attempted to notify 16/03/2020 through Portal). 25/03/2020 exceedance reported 25/03/2020.	Compliant	
R2 Notification of environmental harm						
176.	R2.1	Notifications must be made by telephoning the Environment Line service on 131 555.		No environmental harm as a result of quarry activities has been identified.	Not Triggered	
177.	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. (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).		No environmental harm as a result of quarry activities has been identified.	Not Triggered	
178.	R3.1	Where an authorised officer of the EPA suspects on reasonable grounds that: a) where this licence applies to premises, an event has occurred at the premises; or b) where this licence applies to vehicles or mobile plant, an event has occurred in connection with the carrying out of the activities		No environmental harm as a result of quarry activities has been identified.	Not Triggered	

AUDIT CHECKLIST – EPL 536
Company: Metromix Teralba Quarry

James Hart Consulting
Date: 6 February 2023

JHC Ref No	Cond. No.	Condition	Evidence	Finding and Recommendations	Compliance rating	Issue No
		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.				
179.	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.		No environmental harm as a result of quarry activities has been identified.	Not Triggered	
180.	R3.3	The request may require a report which includes any or all of the following information: a) the cause, time and duration of the event; b) the type, volume and concentration of every pollutant discharged as a result of the event; c) the name, address and business hours telephone number of employees or agents of the licensee, or a specified class of them, who witnessed the event; d) the name, address and business hours telephone number of every other person (of whom the licensee is aware) who witnessed the event, unless the licensee has been unable to obtain that information after making reasonable effort; e) action taken by the licensee in relation to the event, including any follow-up contact with any complainants; f) details of any measure taken or proposed to be taken to prevent or mitigate against a recurrence of such an event; and g) any other relevant matters.		No environmental harm as a result of quarry activities has been identified.	Not Triggered	
181.	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.		No environmental harm as a result of quarry activities has been identified.	Not triggered	
182.	R3.5	Dust Monitoring Report The licensee must submit to the EPA a report in respect of the ambient air quality monitoring conditions within this licence at the end of each reporting		Dust and Blast Monitoring Report included in the Annual Return.	Compliant	

AUDIT CHECKLIST – EPL 536
Company: Metromix Teralba Quarry

James Hart Consulting
Date: 6 February 2023

JHC Ref No	Cond. No.	Condition	Evidence	Finding and Recommendations	Compliance rating	Issue No
		<p>period. The report must be submitted with the Annual Return. The report must be prepared by a suitably qualified person and include:</p> <ul style="list-style-type: none"> a) an assessment of the data against air impact assessment criteria in the EPA's Approved Methods and; b) an assessment of the data in relation to the weather information required by this licence; and c) an outline of any management actions that have or will be taken to address any exceedences. 				
183.	R4.1	<p>Reporting of water quality limit exceedance</p> <p>The licensee must report any exceedence of the water quality limits to the regional office of the EPA as soon as practicable after the exceedence becomes known to the licensee or to one of the licensee's employees or agents.</p>	Email 3/08/2020: EPL 536 Condition L2.4 Exceedance.	<p>Water quality exceedance 27-29 July 2020</p> <p>Water quality results received 3, 4 and 5/08/2020 and Email sent to EPA/ DPE notifying of exceedance.</p> <p>Letter to DPE Re Water Quality TSS Exceedances upload attempted 11/08/2020 (Not uploaded due to issue with Portal). Subsequently uploaded.</p> <p>Response from DPI 24/08/2020</p>	Compliant	
184.	R4.2	<p>A noise compliance assessment report must be submitted to the EPA within 30 days of the completion of the bi-annual noise monitoring. The assessment must be prepared by a suitably qualified and experienced acoustical consultant and include:</p> <ul style="list-style-type: none"> a) an assessment of compliance with noise limits presented in the Noise Limits table; and b) an outline of any management actions taken within the monitoring period to address any exceedences of the limits contained in the Noise Limits table. 	<p>Email to 'hunter.region@epa.nsw.gov.au' 15/09/2020 RE: EPL 536 - Teralba Quarry Noise Exceedance Notification</p> <p>Email to 'hunter.region@epa.nsw.gov.au' 9/11/2021 RE: EPL 536 - Teralba Quarry Noise Exceedance Notification</p>	<p>Monitoring conducted 12-18/08/2020 – Report to EPA 15/09/2020</p> <p>Noise monitoring 2-3/11/2021. Report to EPA 9/11/2021</p> <p>Noise monitoring 5-8/09/2022 Report to EPA 15/09/2022.</p>	Compliant	

JHC Ref No	Cond. No.	Condition	Evidence	Finding and Recommendations	Compliance rating	Issue No
185.	R4.3	<p>Reporting of Blasting Monitoring</p> <p>The licensee must submit to the EPA a report in respect of the blast monitoring required by this licence at the end of each reporting period. The report must be submitted with the Annual Return. The report must be prepared by a suitably qualified and experienced person and include:</p> <ul style="list-style-type: none"> a) an assessment of the monitoring against limits as specified within this licence; and b) an outline of any management actions that have or will be taken to address any exceedences of the limits specified within this licence. 		Dust and Blast Monitoring Report included in the Annual Return	Compliant	
General Conditions						
186.	G1.1	A copy of this licence must be kept at the premises to which the licence applies		Copy available in hard copy and electronically in the office.	Compliant	
187.	G1.2	The licence must be produced to any authorised officer of the EPA who asks to see it.		Copy available in hard copy and electronically in the office.	Compliant	
188.	G1.3	The licence must be available for inspection by any employee or agent of the licensee working at the premises.		Copy available in hard copy and electronically in the office.	Compliant	
189.	G2.1	<p>The licensee must operate 24-hour telephone contact lines for the purpose of enabling the EPA to directly contact one or more representatives of the licensee who can:</p> <ul style="list-style-type: none"> a) respond at all times to incidents relating to the premises; and b) contact the licensee's senior employees or agents authorised at all times to: <ul style="list-style-type: none"> i) speak on behalf of the licensee; and ii) provide any information or document required under this licence. 		<p>Quarry Manager mobile number provided on website.</p> <p>Reported to have been provided to the EPA.</p>	Compliant	
190.	G2.2	The licensee is to inform the EPA in writing of the appointment of any subsequent contact persons, or changes to the person's contact details as soon as practicable and in any event within fourteen days of the appointment or change.		<p>New Quarry Manager commenced work in April 2022.</p> <p>The EPA had not been notified within 14 days.</p>	Non-Compliant	NC-10

AUDIT CHECKLIST – EPL 536
Company: Metromix Teralba Quarry

James Hart Consulting
Date: 6 February 2023

JHC Ref No	Cond. No.	Condition	Evidence	Finding and Recommendations	Compliance rating	Issue No
				<p>This issue had been raised internally as a non-compliance.</p> <p>Recommendation:</p> <p>Metromix should ensure that, the EPA is informed in writing of the appointment of any new contact persons, or changes to the person's contact details as soon as practicable and in any event within fourteen days of the appointment or change.</p>		

b. Water Access Licence 40303

ID No.	Condition No.	WAL Requirement	Audit Evidence	Audit Findings / Recommendation	Compliance Rating	Issue #
Take of water						
1	MW6629-00001	The maximum water allocation that can be carried over from one water year to the next water year in the water allocation account for this access licence is equal to: A. 100 % of the access licence share component for access licences with share components expressed as ML/year, or B. 1 ML/unit share of the access licence share component for access licences with share components expressed as a number of unit shares.	Teralba Quarry 2019 Annual Review Project Approval PA10_0183 Teralba Quarry 2020 Annual Review Project Approval PA10_0183 Teralba Quarry 2021 Annual Review Project Approval PA10_0183, March 2022.	Water Access Licence 40303 permits the extraction and use of water from the Mine Adit Dam with an allocation of 1 407 shares (currently 1ML per share). Records show: 1060.8 ML used in 2019, 664.1ML used in 2020 1213.9ML used in 2021 1187.4ML used in 2022	Compliant	
2	MW8237-00001	The volume of water taken under this access licence in any water year must not exceed: A. the sum of water allocations accrued to the water allocation account of this access licence from available water determinations in that water year, plus B. the water allocations carried over in the water allocation account of this access licence from the previous water year, plus C. the net amount of water allocations assigned to or from the water allocation account of this access licence under a water allocation assignment in that water year, plus D. any water allocations re-credited by the Minister to the water allocation account of this access licence in that water year.	Teralba Quarry 2019 Annual Review Project Approval PA10_0183 Teralba Quarry 2020 Annual Review Project Approval PA10_0183 Teralba Quarry 2021 Annual Review Project Approval PA10_0183, March 2022.	Records show that the volume of water has not exceeded the allocated volume of 1417ML Records show: 1060.8 ML used in 2019, 664.1ML used in 2020 1213.9ML used in 2021	Compliant	

ID No.	Condition No.	WAL Requirement	Audit Evidence	Audit Findings / Recommendation	Compliance Rating	Issue #
Monitoring and recording						
3	MW8295-00001	<p>A. The access licence holder must record the following information in a logbook for each period of time that water is taken:</p> <ul style="list-style-type: none"> i. date, start and end time when water was taken, volume of water taken, and ii. the water supply work approval number under which the water was taken, and iii. the purposes for which water was taken. <p>B. The access licence holder must record the following information in the logbook at the end of each water year:</p> <ul style="list-style-type: none"> i. the volume of water taken in the water year, and ii. the maximum volume of water permitted to be taken in that water year. <p>C. This condition ceases to apply to this access licence on the day on which the relevant mandatory metering equipment condition applies as specified in clause 230(1) in the Water Management (General) Regulation 2018.</p> <p>D. This condition does not apply to this access licence if the licence nominates only water supply works that have:</p> <ul style="list-style-type: none"> i. a meter that complies with Australian Standard AS 4747 - Meters for non-urban water supply, and ii. a data logger. 	<p>Teralba Quarry 2019 Annual Review</p> <p>Project Approval PA10_0183</p> <p>Teralba Quarry 2020 Annual Review</p> <p>Project Approval PA10_0183</p> <p>Teralba Quarry 2021 Annual Review</p> <p>Project Approval PA10_0183, March 2022.</p> <p>Spreadsheet – Flowmeter 3 – Water pumped from Adit to Dam G 2020, 2021, 2022.</p>	<p>Data logger installed to measure and record flows.</p> <p>Records of water take were available.</p>	Compliant	
4	MW6612-00001	A logbook used to record water take information must be retained for five (5) years from the last date recorded in the logbook.	<p>Site inspection</p> <p>Spreadsheet – Flowmeter 3 – Water pumped from Adit to Dam G 2020, 2021, 2022.</p>	Water meter and datalogger installed	Compliant	
5	MW8241-00001	A. The water access licence holder must produce the Logbook to the Minister for inspection when requested.	Site inspection	Water meter and datalogger installed	Compliant	

ID No.	Condition No.	WAL Requirement	Audit Evidence	Audit Findings / Recommendation	Compliance Rating	Issue #
		B. This condition does not apply to this access licence if the licence only nominates water supply works that have: i. a meter that complies with Australian Standard AS 4747 - Meters for non-urban water supply, and ii. a data logger.	Spreadsheet – Flowmeter 3 – Water pumped from Adit to Dam G 2020, 2021, 2022.			
Reporting						
6	MW6983-00024	A. Once the water access licence holder becomes aware of a breach of any condition on this water access licence, the water access licence holder must notify the Minister as soon as practicable. B. If the initial notification was not in writing, written notice must be provided within seven days of becoming aware of the breach by: i. email: nrar.enquiries@nrar.nsw.gov.au , or ii. mail: - DPE Water, PO Box 2213, Dangar NSW 2309, or - DPE Water, Locked Bag 10, Grafton NSW 2460.		No breaches identified.	Not Triggered	


c. Statement of Commitments

JHC Ref No	Cond. No.	Desired Outcome	Action	Timing	Finding and Recommendations	Compliance rating	Issue #
APPENDIX 3 – STATEMENT OF COMMITMENTS							
1. Activities and Operations							
191.	1.	All approved activities are undertaken in the area(s) nominated on the approved plans and figures (unless moved slightly to avoid individual trees).	Clearly mark the boundary of each area of activity, i.e. the boundary of the Southern and Northern Extensions.	Prior to the commencement of quarrying operations.	The boundaries of the approved limits of the Teralba Quarry lease activities have been marked with coloured poles for the various areas: <ul style="list-style-type: none"> • White poles - Stage 1A, • Yellow poles – quarry extraction limits • Blue poles - Council Pugmill Area • Green poles – Downer The posts specifically identify each of the active areas of works within the Teralba Quarry lease boundaries. Verified during site inspection.	Compliant	
2. Operating Hours							
192.	2.1	Management of operations in accordance with the approved operating hours.	Undertake extraction and processing activities south of Rhondda Road between 6:00am and 8:00pm on Monday to Fridays and 6:00am to 2:00pm on Saturdays.	During operations.	Hours of operation of the Teralba Quarry activities are in accordance with the limits in Project Approval Schedule 3 condition 6 and statement of commitments.	Compliant	
193.	2.2	(Note: No activities and operations are proposed on public holidays).	Undertake extraction and processing activities north of Rhondda Road between 7:00am and 8:00pm on Monday to Friday and 7:00am and 2:00pm on Saturdays.	During operations.	Quarry operations north of Rhondda Road ceased in August 2013 and had not recommenced at the date of this audit (February 2020).	Compliant	
194.	2.3		Undertake product transportation activities 24hrs/day between	During operations.	Hours of operation of the Teralba Quarry activities are in accordance with the limits in	Compliant	

AUDIT CHECKLIST: Statement of Commitments
Company: Metromix Teralba Quarry

James Hart Consulting
Date: 6 February 2023

JHC Ref No	Cond. No.	Desired Outcome	Action	Timing	Finding and Recommendations	Compliance rating	Issue #
			4:00am Monday to 6:00pm Saturday.		Project Approval Schedule 3 condition 6 and statement of commitments.		
195.	2.4		Undertake all blasts between 10:00am and 4:00pm Monday to Friday.	During operations.	All blasts have been undertaken between 10.00am and 4.00pm.	Compliant	
196.	2.5		Restrict activities undertaken outside the hours identified is Commitments 2.1 and 2.2 to routine, low noise activities such as oil changes, minor welding and servicing of equipment.	During operations.	Activities undertaken outside of the Hours of Work required under the Project Approval are not associated with resource extraction or transport of product.	Compliant	
197.	2.6		The nominated operating hours above in Action 2.3 do not apply to the delivery of material if that material is requested by police, any emergency service or Council. Details of the circumstances of these requests would be provided to the Secretary and EPA within a reasonable period of the request(s).	During operations.		Not triggered	
3. Waste Management							
198.	3.1	Minimisation of general waste creation and maximisation of recycling, wherever possible.	Place all paper and general wastes originating from the site office, together with routine maintenance consumables from the daily servicing of equipment in garbage bins located adjacent to the site office and workshop.	Ongoing.	Dedicated waste container provided for paper and general wastes.	Compliant	
199.	3.2		Segregate waste into recyclables and non-recyclable materials for removal by a licensed contractor.	Ongoing.	Facilities provided on site for the segregation of wastes. Cardboard, steel and general waste containers provided.	Compliant	

JHC Ref No	Cond. No.	Desired Outcome	Action	Timing	Finding and Recommendations	Compliance rating	Issue #
200.	3.3	Minimisation of the potential risk of environmental impact due to waste creation, storage and/or disposal.	Organise the regular collection of industrial wastes.	Monthly or as needs basis.	Waste was collected on an as needed basis. Records of waste removal were maintained.	Compliant	
201.	3.4		Store waste oils and greases within the workshop area in either self-bunding containers or within suitably contained areas.	Ongoing.	Covered bunded area provided for the storage of waste oils and greases.	Compliant	
4. Security and Safety							
202.	4.1	All members of the public are safe when near Teralba Quarry.	Construct and maintain the perimeter fence around the Northern Extension.	Prior to commencement of clearing works.	Extraction works had not commenced in the Northern Extension Area at the date of this audit (February 2023). Security fencing and locked gates provided.	Compliant	
203.	4.2		Maintain lockable gates at all entry/exit points. Lock gates outside of operational hours.	Ongoing.	Lockable gates have been installed and maintained at the entry and exit points from the Teralba Quarry sites.	Compliant	
204.	4.3		Erect security warning signs at strategic locations around and within the Project Site. The signs would identify the presence of earthmoving equipment, deep excavations and steep slopes.	Ongoing.	Security warning signs are present around the site to warn of earthmoving equipment/vehicle movements. 	Compliant	
205.	4.4		Continue to induct employees in safe working practices and hold regular follow-up safety meetings and reviews.	Ongoing.	Induction of employees in relation to safety and safe working practices occurs for all employees and contractors with follow-up Toolbox talks and meetings conducted to maintain employee awareness.	Compliant	

AUDIT CHECKLIST: Statement of Commitments
Company: Metromix Teralba Quarry

James Hart Consulting
Date: 6 February 2023

JHC Ref No	Cond. No.	Desired Outcome	Action	Timing	Finding and Recommendations	Compliance rating	Issue #
206.	4.5		Install bunds along the margins of all internal haul roads where those roads are positioned adjacent to steep slopes, adjacent to the boundary of the extraction area and adjacent to all other steep slopes.	Ongoing.	Internal roads have the boundary of the access routes marked to provide guidance to drivers in relation to safe distances from slopes adjacent to extraction areas.	Compliant	
207.	4.6		Ensure all trucks from the Project Site are driven in a safe and courteous manner in accordance with Metromix’s Driver Code of Conduct.	Ongoing.	Drivers are provided a driver induction, including the Driver Code of Conduct. The Transport Management Plan (section 6.2) and Drivers Code of Conduct describes Competence Training and Awareness for all drivers / employees and covers site traffic rules, safe site delivery, Drivers Code of Conduct, maximum hourly despatch rates and operation and maintenance of wheel washes.	Compliant	
5. Rehabilitation and Biodiversity Offset Management							
208.	5.1		Deleted.				
209.	5.2		Deleted.				
6. Groundwater							
210.	6.1	Prevention of groundwater contamination.	Securely store all hydrocarbon products within designated and bunded areas – see Action 16.11.	Ongoing.	Diesel and oils are held in appropriately bunded areas with impervious flooring and sufficient capacity to contain 110% of the largest container stored within the bund (in accordance with AS1940-2004 and the DECC Storing and Handling Liquids: Environmental Protection Manual). Waste oil is placed in the covered bunded waste oil tank and the waste oil collected for recycling by Trans-Pacific.	Compliant	

AUDIT CHECKLIST: Statement of Commitments
Company: Metromix Teralba Quarry

James Hart Consulting
Date: 6 February 2023

JHC Ref No	Cond. No.	Desired Outcome	Action	Timing	Finding and Recommendations	Compliance rating	Issue #
211.	6.2		Refuel and maintain all earthmoving equipment within designated areas – see Action 16.11.	Ongoing.	Refuelling of vehicles and equipment occurs in designated areas and maintenance is undertaken at the site workshops.	Compliant	
212.	6.3		Prepare a Groundwater Management Plan, including trigger levels for actions – see Action 16.3.	Ongoing.	Groundwater Management has been addressed in Water Management Plan section 7.2 including trigger levels for actions.	Compliant	
213.	6.4		Prepare a Spill Management Plan to address potentially significant hydrocarbon spills – see Action 16.11.	Ongoing.	Pollution Incident Response Management Plans includes spill management.	Compliant	
214.	6.5	Continuous monitoring of groundwater throughout the life of the Project.	Develop and implement a monitoring program as part of the Soil and Water Management Plan.	Within 6 months of the receipt of project approval.	Verified previous audit. Water monitoring is addressed in Section 9 of the Water Management Plan. Erosion and Sediment Control addressed in Section 8 of the Water Management Plan	Compliant	
215.	6.6		Monitor water quality at the Mine Adit Dam for pH levels, electrical conductivity, suspended solids, and oil and grease.	Monthly (subject to review).	Water quality monitoring of the Mine Adit Dam for pH levels, electrical conductivity, suspended solids, and oil and grease is conducted monthly in accordance with EPL condition M2.3.	Compliant	
216.	6.7		Record flows/discharges from the Mine Adit Dam as well as quarry water usage.	Continuous.	Continuous logger provided to record flows from the mine adit dam at the discharge point.	Compliant	
217.	6.8		Review monitoring results to identify trends which may indicate impacts and allow mitigation measures to be implemented, if required.	Annually.	All monitoring data is reviewed annually during preparation of the Annual Review Report for the Teralba Quarry.	Compliant	
218.	6.9		Ensure all monitoring data is incorporated into each Annual	Annually.	All monitoring data is appended to the Annual Review Reports for the Teralba Quarry.	Compliant	

JHC Ref No	Cond. No.	Desired Outcome	Action	Timing	Finding and Recommendations	Compliance rating	Issue #
			Environment Management Report for the Teralba Quarry.				
7. Surface Water							
219.	7.1	Maintenance of surface water quality.	Conduct site clearing activities in accordance with the Blue Book (Landcom, 2004) guidelines for erosion and sediment control.	Ongoing.	Vegetation clearing activities are conducted in accordance with the Erosion and Sediment Control Plan and the Blue Book guidelines for erosion and sediment control.	Compliant	
220.	7.2		Establish a regular monitoring program to review the effectiveness of all erosion and sediment control mitigation measures.	Prior to commencement of clearing works.	Monitoring program included in Section 3.3.4 of the Erosion and Sediment Control Plan (Appendix 1 of the Water Management Plan).	Compliant	
221.	7.3		Incorporate an update of the current Water Management Plan (GHD, 2007) into the Soil and Water Management Plan to take into account the proposed Southern and Northern Extensions.	Within 6 months of date of project approval.	The Water Management Plan was prepared in consultation with the Lake Macquarie City Council and the NSW Office of Water (NOW), and submitted to DP&I on 22 August 2013. The Water Management Plan Revision 4 was approved by DPI on 2 October 2018.	Compliant	
222.	7.4		Ensuring any off-site discharge is monitored and reported in accordance with Environment Protection Licence 536.	As Required.	Monitoring of the discharge from the EPA approved monitoring points has occurred and reported in accordance with EPL condition P1.3, L2.1, L3.1, and M2.3.	Compliant	
223.	7.5		Conduct site clearing activities in accordance with the Blue Book (Landcom, 2004) guidelines for erosion and sediment control.	Ongoing.	Vegetation clearing activities are conducted in accordance with the Biodiversity and Rehabilitation Management Plan, Erosion and Sediment Control Plan and the Blue Book guidelines for erosion and sediment control	Compliant	
224.	7.6		Establish a regular monitoring program to review the effectiveness of all erosion and sediment control mitigation measures.	Prior to commencement of clearing works.	Erosion and Sediment Control Plan (Appendix 1 of the Water Management Plan) includes monitoring program the erosion and sediment structures.	Compliant	

AUDIT CHECKLIST: Statement of Commitments
Company: Metromix Teralba Quarry

James Hart Consulting
Date: 6 February 2023

JHC Ref No	Cond. No.	Desired Outcome	Action	Timing	Finding and Recommendations	Compliance rating	Issue #
225.	7.7		Incorporate an update of the current Water Management Plan (GHD, 2007) into the Soil and Water Management Plan to take into account the proposed Southern and Northern Extensions.	Within 6 months of date of project approval.	The Water Management Plan was prepared in consultation with the Lake Macquarie City Council and the NSW Office of Water (NOW), and submitted to DP&I on 22 August 2013. The Water Management Plan Revision 4 was approved by DPI on 2 October 2018.	Compliant	
226.	7.8		Ensuring any off-site discharge is monitored and reported in accordance with Environment Protection Licence 536.	As Required.	Monitoring of the discharge from the EPA approved monitoring points has occurred and reported in accordance with EPL condition P1.3, L2.1, L3.1, and M2.3.	Compliant	
227.	7.9	Capture of sediment-laden water flows from project-related disturbance.	Provide sufficient storage during all stages of works to prevent discharge off-site of sediment-laden water in accordance with the Blue Book (Landcom, 2004) guidelines for sediment retention dams.	Ongoing.	Verified previous audit. The erosion and sediment control measures constructed on the Teralba Quarry site appear to have adequate capacity to retain and settle sediment containing runoff from the disturbed areas of the site. No uncontrolled discharge has occurred during the period covered by this audit (February 2020 to February 2023).	Compliant	
228.	7.10		Inspect all sediment dams and maintain as necessary (keep records).	Monthly or following rainfall exceeding 100mm in 2 days.	Sediment dams are inspected on a weekly basis or following any rainfall of >10min in 24 hours.	Compliant	
229.	7.11		Remove accumulated sediment from sediment dams when storage capacity reduced by 25% - document activity in maintenance records.	Following routine inspection.	BRMP Section 6.2.9 requires regular inspections and cleaning of sediment dams. Sediment dam inspections are conducted and sediment removed as required to ensure 70% dam capacity is available.	Compliant	
230.	7.12	Prevention of hydrocarbon contamination of water on the Project Site.	Securely store all hydrocarbon products within designated and bunded areas.	Ongoing.	Diesel and oils are held in appropriately bunded areas with impervious flooring and sufficient capacity to contain 110% of the largest container stored within the bund (in accordance with AS1940-2004 and the DECC Storing and Handling Liquids: Environmental Protection Manual).	Compliant	

JHC Ref No	Cond. No.	Desired Outcome	Action	Timing	Finding and Recommendations	Compliance rating	Issue #
					Waste oil is placed in the covered bunded waste oil tank and the waste oil collected for recycling by Trans-Pacific		
231.	7.13		Refuel all earthmoving equipment within designated areas (with spill control).	Ongoing.	Refuelling of vehicles and equipment occurs in designated areas and maintenance is undertaken at the site workshops.	Compliant	
232.	7.14	Separation of groundwater and surface water flows	Construct a drain from Dam B directly to the nearby watercourse to divert surface flows away from the Mine Adit Dam.	Within 3 months of Project Approval or following advice from NOW whichever occurs sooner.	Verified previous audit. discharge point established from Dam B to the nearby watercourse, diverts surface water flows away from the Mine Adit Dam A.	Compliant	
8. Terrestrial Flora and Fauna							
233.	8.1	Minimisation of impacts on flora and fauna within the Project Site.	Prepare and implement a Site Vegetation Management Plan (as part of the overall Landscape Management Plan – see Commitment 16.7.	Within 12 months of the receipt of project approval.	Verified previous audit - Landscape Management Plan February 2014 includes short, medium and long term vegetation management measures. Landscape Management Plan replaced by the Biodiversity and Rehabilitation Management Plan (Approved 18 June 2019).	Compliant	
234.	8.2		Clearly define the <i>Tetratheca juncea</i> sub-populations to be retained.	For the life of the Project.	Areas of <i>Tetratheca juncea</i> identified on the Teralba Quarry site have been clearly identified as NO-GO areas for protection.	Compliant	
235.	8.3		Continue the established rehabilitation practices in appropriate areas.	Ongoing.	Rehabilitation practices implemented for the Teralba Quarry site have been successful and the reuse of site topsoil and biomass continues to be applied to disturbed areas.	Compliant	
236.	8.4		Retain the extracted topsoil and vegetation within the immediate area of <i>Tetratheca juncea</i>	During clearing.	Topsoil was collected and stored for reuse	Compliant	

JHC Ref No	Cond. No.	Desired Outcome	Action	Timing	Finding and Recommendations	Compliance rating	Issue #
			populations and relocate to easement locations.				
237.	8.5		Transfer biomass directly from vegetation clearing operations to rehabilitation areas. If it is not possible to transfer directly, stockpile material.	Ongoing.	Rehabilitation practices established for the Teralba Quarry site have been successful and the reuse of site topsoil and biomass continues to be applied to disturbed areas.	Compliant	
238.	8.6		Control noxious weeds at all times in accordance with a Weed Management Plan (to be incorporated into the site Vegetation Management Plan).	Following approval of Landscape Management Plan (see Action 16.7) and then ongoing.	Weed management and removal using both manual and chemical controls have been conducted and reported quarterly by T.E.N.T.A.C.L.E Inc,	Compliant	
239.	8.7		Install species specific nesting boxes for fauna species displaced following clearing activities, re 20 boxes for microbats, 20 boxes for Little Lorikeets and 30 boxes for Sugar Gliders.	Prior to commencement of activities in the Northern Extension.	Verified previous audit.	Compliant	
9. Traffic and Transport							
240.	9.1	Transport operations are undertaken with minimal impact on other road users and residents.	Limit laden quarry-related truck movement numbers through Teralba: 9 per hour; and 85 per day.	Ongoing.	The number of laden trucks dispatched from the Teralba Quarry between February 2020 and February 2023 comply with the limits of hourly truck dispatch rates in Project Approval Schedule 2 condition 9.	Compliant	
241.	9.2		Ensure that no product trucks from Teralba Quarry travel eastward through Teralba between 6:00pm and 6:00am.		The number of laden trucks dispatched from the Teralba Quarry between February 2020 and February 2023 comply with the limits of hourly truck dispatch rates in Project Approval Schedule 2 condition 9.	Compliant	
242.	9.3		Ensure all vehicles exiting the Project Site pass through a wheel-wash facility to remove dust generating material.		Wheel-wash facilities provided at both site exits. Barriers provided to prevent drivers bypassing the wheel-wash.	Compliant	

AUDIT CHECKLIST: Statement of Commitments
Company: Metromix Teralba Quarry

James Hart Consulting
Date: 6 February 2023

JHC Ref No	Cond. No.	Desired Outcome	Action	Timing	Finding and Recommendations	Compliance rating	Issue #
243.	9.4		Provide a contribution to Lake Macquarie City Council during the ongoing life of the quarry if a suitable project approval is granted.		Metromix consulted the Council and a Voluntary Planning Agreement was signed on 6 February 2017 in relation to the payment of the 0.066c per tonne per kilometre (/t/km) plus CPI for every tonne of quarry products transported from the Teralba Quarry site on roads where the Council is liable for road maintenance. Current rate – 0.0861c/t/km.	Compliant	
244.	9.5		Prepare, implement and enforce 'Drivers Code of Conduct' addressing: <ul style="list-style-type: none"> • times that trucks can operate, especially through Teralba • speed limits; • duty of care to other drivers and pedestrians; • complaints procedure; • covering loads; and • avoidance of exhaust brakes. 		Driver's Code of Conduct included in the Transport Management Plan. Driver inductions conducted which include driver acknowledgement and agreement to operate in accordance with the code of conduct.	Compliant	
245.	9.6		Undertake all transport activities in accordance with the project approval and Environment Protection Licence 536.	Ongoing.	Transport activities are conducted in accordance with the approved Transport Management Plan. No non-compliance related to transport were identified during the period covered by this audit.	Compliant	
246.	9.7		Ensure that only trucks owned by Metromix, or its shareholders and those of accredited contractors using airbag suspension and other noise controls are used to transport products between 10:00pm and 6:00am.		All trucks owned by Metromix, and its approved contractors reported to be fitted with airbag suspension.	Compliant	
247.	9.8		Ensure that all project-related vehicles are regularly serviced to		All project-related vehicles are regularly serviced to ensure engine efficiencies are	Compliant	

JHC Ref No	Cond. No.	Desired Outcome	Action	Timing	Finding and Recommendations	Compliance rating	Issue #
			ensure engine efficiencies are maintained at a standard that limits truck noise.		maintained at a standard that limits truck noise.		
10. Noise and Vibration							
248.	10.1	The Project is designed to minimise and/or mitigate noise emissions received at surrounding residences and other sensitive receivers.	Ensure all mobile earthmoving equipment used on site is not fitted with high-frequency reversing alarms and is regularly serviced.	Ongoing.	"Quacker" style reversing alarms fitted to earthmoving equipment on site.	Compliant	
249.	10.2		Ensure all earthmoving equipment used on site (including temporary equipment) have sound power levels and frequency spectra consistent with those nominated in Section 6 of Spectrum Acoustics (2011).	Komatsu WA480-8 Specifications Komatsu WA500-8-YL Specifications	Sound power levels of equipment were tested in 2013. Current FELs in use on site how sound power levels lower than those specified.	Compliant	
250.	10.3	All activities are undertaken in such a manner as to reduce the noise level generated and minimise impacts on surrounding landholders and/or residents.	Ensure that the eastern side of the Southern Extension is extracted in such a manner that the active extraction face is retained on the eastern face thereby providing a topographic barrier between operating earthmoving equipment and residences to the east.	Ongoing throughout the extraction operations in the Southern Extension area.	The Southern Extension Area extraction active face is retained on the eastern side to provide a topographic barrier between operating earthmoving equipment and the residences to the east.	Compliant	
251.	10.4		Construct a 5m high bund on the eastern edge of the Mid Pit Extraction Area.	During Mid Pit Extraction operations.	A 5m wall on Dam K on the eastern edge of the Mid Pit Extraction Area provides a barrier for operations in the Mid-Pit Extraction Area. No Mid-Pit extraction activities have been conducted since August 2013.	Compliant	
252.	10.5		Limit transportation noise by ensuring:		The noise attributed to trucks travelling to and from the Teralba Quarry is controlled by:	Compliant	

AUDIT CHECKLIST: Statement of Commitments
Company: Metromix Teralba Quarry

James Hart Consulting
Date: 6 February 2023

JHC Ref No	Cond. No.	Desired Outcome	Action	Timing	Finding and Recommendations	Compliance rating	Issue #
			<ul style="list-style-type: none"> - all transport vehicles comply with the RTA's noise limits at all times; - only trucks fitted with airbag suspension be used to transport products from the quarry between 10:00pm and 6:00am; and - drivers comply with Code of Conduct. 	<p>Ongoing</p> <p>Ongoing</p> <p>Ongoing</p>	<ul style="list-style-type: none"> • All trucks under the control of Metromix, comply at all times with the RTA's noise limits. • Only those trucks under the control of Metromix, its shareholders and approved contractors are used to transport products from the Teralba • Quarry between 6:00pm and 6:00am Monday to Saturday. • All drivers sign the Drivers Code of Conduct to ensure high standard of driver performance including the need to avoid use of exhaust brakes in built-up areas and travel at required speeds. <p>One complaint related to truck noise received (noisy brakes). Truck was removed from site.</p>		
253.	10.6		<p>Commission a noise monitoring program that comprises</p> <ul style="list-style-type: none"> - attended noise monitoring for the Southern and Northern Extensions; and - General noise monitoring. 	<p>Within the first 3 months of operations in the Southern and Northern Extensions Biannually for the first year of operation in the Southern and Northern Extensions, and further monitoring when substantiated complaints are filed.</p>	<p>Noise Monitoring program included in Section 10 of the NMP. Attended noise monitoring surveys have been conducted bi-annually.</p>	Compliant	
254.	10.7		<p>Include a summary of all noise monitoring results in the AEMR.</p>	<p>Annually.</p>	<p>Noise monitoring results are summarised in Section 6.2 of the AEMR.</p>	Compliant	

AUDIT CHECKLIST: Statement of Commitments
Company: Metromix Teralba Quarry

James Hart Consulting
Date: 6 February 2023

JHC Ref No	Cond. No.	Desired Outcome	Action	Timing	Finding and Recommendations	Compliance rating	Issue #
255.	10.8		Ensure all trucks departing the Project Site via the bottom gate travel at speeds <15km/hr.	Ongoing.	Trucks departing the Teralba Quarry site via the bottom gate to Railway Street are restricted to speeds of less than15km/hr.	Compliant	
256.	10.9		Review blast designs and modify, if required.	When blasting within 500m of any residence.	No blasts have occurred within 500m of any residence.	Not Triggered	
11. Air Quality							
257.	11.1	Site activities are undertaken without exceeding DECCW air quality criteria or goals.	Minimise clearing ahead of extraction activities	Ongoing.	Progressive clearing is undertaken to minimise exposed areas. Clearing restricted to area required for each sub-area.	Compliant	
258.	11.2		Minimise the construction of minor roads and access tracks for soil stripping, extraction operations and rehabilitation.	Ongoing.	No construction of minor roads and access tracks occur for soil stripping, extraction operations and rehabilitation.	Compliant	
259.	11.3		Operate a water truck to manage dust suppression during periods of extended dry weather and/or high winds, or when dust nuisance has the potential to occur as a result of quarrying activities.	Ongoing.	Two water carts available on site for dust suppression during dry weather and high winds. Water cart in use on the day of audit.	Compliant	
260.	11.4		Stockpile material in sheltered locations away from sensitive receptors	Ongoing.	Raw materials are processed at the on-site plant and product stockpiles have been established in locations away from sensitive receptors.	Compliant	
261.	11.5		Shield and/or suppress dust on conveyors and transfer points.	Ongoing.	Mist sprays / dust suppression is installed on conveyors and transfer points to reduce dust dispersion.	Compliant	
262.	11.6		Limit internal road dust lift off by: - surfacing (and grading local) roads with appropriate materials;	Ongoing.	Internal roads are maintained to reduce dust with a 30km/hr speed limit enforced on all internal roads. Spillage during truck loading and transport is minimised to ensure that product is not lost	Compliant	

AUDIT CHECKLIST: Statement of Commitments
Company: Metromix Teralba Quarry

James Hart Consulting
Date: 6 February 2023

JHC Ref No	Cond. No.	Desired Outcome	Action	Timing	Finding and Recommendations	Compliance rating	Issue #
			<ul style="list-style-type: none"> - enforcing a 30km/hr speed limit on all internal roads; - limiting load sizes to ensure that product does not extend over truck sidewalls; and - avoiding spillage during truck loading. 		over truck sidewalls and all loads are covered during transport.		
263.	11.7		Minimise dump heights from trucks, front-end loaders and conveyors.	Ongoing.	Dump heights are minimised from trucks, front-end loaders and conveyors to reduce potential for dust generation.	Compliant	
264.	11.8		Schedule blasts so that they do not occur during high wind situations.	Ongoing.	Blasts are not scheduled to occur during adverse weather conditions.	Compliant	
265.	11.9		Cease or modify activities on dry windy days when dust plumes are visible.	Ongoing.	During periods of high wind (typically from the western quadrant) activities capable of generating dust are curtailed in the higher exposed areas. Daily dairies show operations ceased due to environmental conditions.	Compliant	
266.	11.10		Water exposed areas not covered by gravel under dry and windy conditions when dust plumes are visible.	Ongoing.	Two water carts provided for watering areas not covered by gravel under dry and windy conditions when dust plumes are visible.	Compliant	
267.	11.11		Adopt a complaints management system where all complaints are dealt with through investigation and implementation of corrective treatments.	Ongoing.	The complaints management system developed for the Teralba Quarry operations is provided in the Air Quality Management Plan section 12 and outlines the process for receipt and actions to be taken in the event of an air quality complaint.	Compliant	
268.	11.12		Minimise truck queuing, unnecessary idling of trucks and unnecessary trips through logistical planning, where possible.	Ongoing.	Planning of truck loading and transport from the Teralba Quarry site reduces the queuing of trucks on site and unnecessary idling of trucks.	Compliant	

AUDIT CHECKLIST: Statement of Commitments
Company: Metromix Teralba Quarry

James Hart Consulting
Date: 6 February 2023

JHC Ref No	Cond. No.	Desired Outcome	Action	Timing	Finding and Recommendations	Compliance rating	Issue #
269.	11.13		Ensure the on-site wheel wash reduces mud tracking along Railway Street.	Ongoing.	Wheel-wash facilities provided at quarry exits. No instances of mud tracking onto Railway Street have been reported.	Compliant	
270.	11.14		Remove any mud tracking on Rhondda Road as a result of quarry movements.	Ongoing.	Wheel wash have been installed at the exit to Rhondda Road to reduce the potential for mud tracking onto the public road. No instances of mud tracking onto Railway Street have been reported.	Compliant	
271.	11.15		Prepare and implement a Dust Management Plan for the quarry.	Within 4 months of the receipt of project approval.	Dust management is included in the AQMP prepared for the Teralba Quarry in August 2013 and submitted to the DP&I. AQMP updated Current version Rev 06, 9/ December 2019. Verified previous audit.	Compliant	
272.	11.16	Reduce the impact of Greenhouse Gas emissions from project related activities.	Minimise the impacts of greenhouse gases relating from diesel consumption by: <ul style="list-style-type: none"> - minimising the use of haul trucks through use of an overland conveyor; - reduce vehicle idling time; - maintaining optimum tyre pressures; and - the optimisation of haul routes to reduce transportation distance from the extraction areas. 	Ongoing.	Reduce Vehicle Idling Time All operators are required to operate equipment to reduce idling time by turning engines off during length periods of inactivity. Maintaining Optimal Tyre Pressures Each tyred vehicle will have optimal pressures identified for each tyre. Required to be checked during daily prestart inspections. Optimising Haul Routes Haul routes between the raw feed loading area and the processing plant are optimised and internal haul roads are progressively re-located to maintain the shortest distance and grade for haul truck travel.	Compliant	
273.	11.17		Minimise the impacts of greenhouse gases relating from electricity consumption by: <ul style="list-style-type: none"> - ensuring the most efficient crusher and other processing plant technology is used; 	Ongoing.	The following actions had been implemented for minimising GHG emissions: <ul style="list-style-type: none"> • Minimising diesel consumption • Reducing truck idling time • Maintaining optimal tyre pressure • Optimising haul routes 	Compliant	

AUDIT CHECKLIST: Statement of Commitments
Company: Metromix Teralba Quarry

James Hart Consulting
Date: 6 February 2023

JHC Ref No	Cond. No.	Desired Outcome	Action	Timing	Finding and Recommendations	Compliance rating	Issue #
			<ul style="list-style-type: none"> - regularly inspecting the daily operations of lighting; and - implementing solar-powered lighting, where possible. 		<ul style="list-style-type: none"> • Optimising electricity usage <p>Noted that two new Front End loaders had been purchased which are Tier 4 final emissions certified.</p>		
274.	11.18	Record and monitor the local environment regarding dust impacts.	<p>Continue to monitor dust impacts through;</p> <ul style="list-style-type: none"> - the existing five deposited dust gauges; and - on-site meteorological monitoring to record relevant parameters. 	Ongoing.	Dust deposition monitoring is conducted with five dust deposition gauges at locations identified in the Air Quality Management Plan section 9.2 (in accordance with Project Approval Schedule 3 condition 20(d) and EPL 536 condition M2.2) and meteorological parameters (in accordance with EPL 536 condition M4.1) had continued at the Teralba Quarry site.	Compliant	
12. Visibility							
275.	12.1	Reduce the impact of the Project on the visual amenity of private and public vantage points.	Ensure all vegetation is maintained outside the Southern and Northern Extensions to provide long term shielding.	Ongoing.	Vegetation on the eastern side of the Southern Extension has been retained to provide a visual screen. No work has been conducted in the Northern Extensions	Compliant	
276.	12.2		Sequence extraction activities in the Southern Extension to limit exposure of western faces until vegetation is well established.	Years 3 to 11 (approx).	The sequence extraction activities in the Southern Extension Area limit exposure of western faces.	Compliant	
277.	12.3		Progressively establish vegetation on extraction faces at 50mAHD and above in western section of the Southern Extension.	Years 3 to 11 (approx).	During the site inspection, progressive rehabilitation of former work areas was verified	Compliant	
278.	12.4		Advance extraction in the eastern section of the Southern Extension in strips parallel to north-south faces.	Years 22 to 30 (approx).		Not triggered	

AUDIT CHECKLIST: Statement of Commitments
Company: Metromix Teralba Quarry

James Hart Consulting
Date: 6 February 2023

JHC Ref No	Cond. No.	Desired Outcome	Action	Timing	Finding and Recommendations	Compliance rating	Issue #
279.	12.5		Include Annual photographs of the progressive rehabilitation of quarry benches in each AEMR.		Photographs of progressive rehabilitation are included in the Annual Reviews in the attached Rehabilitation Reports (by T.E.N.T.A.C.L.E Inc).	Compliant	
13. Heritage							
280.	13.1	Provide appropriate protection to existing and future identified Aboriginal artefacts.	Halt all works in the immediate area if cultural objects are found and contact a suitably qualified archaeologist and Aboriginal community representative.	Ongoing.	No cultural objects have been found during clearing activities (Artefacts discovered during preclearance survey).	Not Triggered	
281.	13.2		Halt all works in the immediate area if human remains are found and contact NSW Police, Aboriginal community representative and OEH.	Ongoing.	No human remains had been found prior to this audit.	Not Triggered	
282.	13.3		Maintain reasonable efforts to avoid impacts to Aboriginal cultural heritage values at all stages of the development works	Ongoing.	Survey conducted prior to stripping to identify Aboriginal cultural heritage items.	Compliant	
283.	13.4		Invite representatives of Local Aboriginal stakeholders to monitor initial ground disturbance activities.	Prior to soil stripping campaigns.	Representatives of Local Aboriginal stakeholders invited to monitor initial ground disturbance activities for Area 2 clearance conducted in February 2019.	Compliant	
284.	13.5		Develop an Aboriginal Culture Educational Program for the induction of all personnel and contractors involved in the construction activities on site. Records are to be kept of which staff/contractors were inducted and when for the duration of the project. The program would be developed and implemented in collaboration with the local	Prior to first soil stripping campaign and then ongoing.	Personnel induction for the Teralba Quarry employees and contractors includes an introduction to Aboriginal heritage management issues.	Compliant	

JHC Ref No	Cond. No.	Desired Outcome	Action	Timing	Finding and Recommendations	Compliance rating	Issue #
			Aboriginal community.				
285.	13.6		Halt all works in the immediate area if any non-Aboriginal artefacts are found and notify the Heritage Council of NSW.	Ongoing	No -non-aboriginal artefacts have been discovered during works in the current audit period. Artefacts uncovered during the previous audit period have been stored awaiting reburial in consultation with Aboriginal stakeholders.	Compliant	
14. Soils							
286.	14.1	Prevent excessive soil deterioration during stripping and transportation.	Undertake soil stripping within slightly moist condition and avoid excessively wet or dry conditions.	During soil stripping operations.	Stripping of soil in accordance with the BRMP (Section 6.2), which requires stripping of soil only when the material is moderately moist to preserve soil structure, prevent erosion and reduce dust generation.	Compliant	
287.	14.2		Place stripped soil directly onto reshaped overburden or dedicated stockpile area.	During soil stripping operations.	Topsoil and subsoil materials are stockpiled separately as low, flat mounds to a maximum height of 2m (topsoil) and 4m (subsoil) to maintain the available seed bank.	Compliant	
288.	14.3		Remove soil through grading or pushing soil into windrows with graders or dozers for later collection for loading into rear dump trucks by front-end loaders.	During stripping and transport operations.	Topsoil stripping process identified in Section 6.2.1 of the BRMP.	Compliant	
289.	14.4	Retention of soil viability until use in rehabilitation.	Leave the surface of soil stockpiles in as coarsely structured a condition as possible in order to promote infiltration and minimise erosion until vegetation is established.	Immediately following stockpile construction.	BRMP Section 6.2.1 Direct transfer of available topsoil and subsoil onto active rehabilitation areas is practised where practicable	Compliant	
290.	14.5		Maintain a maximum stockpile height of 3m. Clayey soils would be stored in lower stockpiles for shorter periods of time compared to coarser textured sandy soils.	During staged Rehabilitation stages.	BRMP Section 6.2.1 Soil stockpiles are constructed as low, flat mounds to a maximum height of 2m (topsoil)	Compliant	

AUDIT CHECKLIST: Statement of Commitments
Company: Metromix Teralba Quarry

James Hart Consulting
Date: 6 February 2023

JHC Ref No	Cond. No.	Desired Outcome	Action	Timing	Finding and Recommendations	Compliance rating	Issue #
					and 4m (subsoil) to maintain the available seed bank.		
291.	14.6		Seed soil stockpiles with sterile cover crop (and limited fertiliser) as soon as possible where stockpiling is planned.	Immediately following stockpile construction.	Verified during site inspection	Compliant	
292.	14.7		Maintain an inventory of available soil to ensure adequate topsoil materials are available for planned rehabilitation activities.	Ongoing.	Soil inventory maintained	Compliant	
293.	14.8		Assess soil stockpiles for weed infestation to determine if stockpiles require weed removal applications before being re-spread onto reshaped overburden.	During staged Rehabilitation stages.	Weed inspections and control undertaken by T.E.N.T.A.C.T.E Inc	Compliant	
294.	14.9	Achieve a good soil cover for long term rehabilitation.	Spread topsoil to a minimum depth range of 0.1 m (steep slopes) to 0.2m (flatter areas). Specific topsoil resspreading depths for different post mining landform elements would be specified in the Landscape Management Plan.	During staged Rehabilitation stages.	Completion criteria (BRMP Table 10) Management Plan section 17, requires topsoil to be spread to a minimum depth range of 0.1 m (steep slopes) to 0.2m (flatter areas).	Compliant	
15. Bushfire Hazard							
295.	15.1	Avoidance of any fires on site, particularly in native vegetation.	Adopt appropriate controls during re-fuelling.	Ongoing.	Refuelling of vehicles and equipment occurs in designated areas and maintenance is undertaken at the site workshops.	Compliant	
296.	15.2		Ensure fire extinguishers are fitted to all site vehicles.	Ongoing.	Site vehicles have fire extinguishers installed.	Compliant	
297.	15.3		Incorporate a Bushfire Management Plan in the overall Emergency Response Plan for the quarry.	Within 6 months of the receipt of project approval.	A Bushfire Management Plan (dated February 2014) has been prepared as part of the Landscape Management Plan for the Teralba Quarry.	Compliant	

JHC Ref No	Cond. No.	Desired Outcome	Action	Timing	Finding and Recommendations	Compliance rating	Issue #
16. Documentation and Further Approvals							
298.	16.1	To provide site personnel with the necessary guidance on the expectations of Metromix management and the NSW Government and LMCC to achieve the required level of environmental performance.	Environmental Management Strategy.	Within 6 months of the receipt of project approval.	Verified previous audit. Environmental Management Strategy Rev 03, 20 December 2018 available.	Compliant	
299.	16.2		Environmental Management Plan (EMP). Focus on the next 5 years.	Within 6 months of receipt of project approval.	Verified previous audit. Management plans have been reviewed and updated to ensure they remain relevant to the quarry operations.	Compliant	
300.	16.3		Soil and Water Management Plan. (Incorporating management, monitoring and contingency plans for soils, surface water and groundwater).	Within 6 months of the receipt of project approval.	Verified previous audit. Water Management Plan (Rev 05, 21 September 2020) available which includes soil management.	Compliant	
301.	16.4		Noise and Blast Management Plan. (Incorporating a blast and noise monitoring component.)	Within 4 months of the receipt of project approval.	Verified previous audit. Blast Management Plan (Rev 06, 30 June 2020) available. Noise Management Plan Rev 03, 10/12/2021	Compliant	
302.	16.5		Air Quality Management Plan. (Incorporating an air quality monitoring component.)	Within 4 months of receipt of project approval.	Verified previous audit. Air Quality Management Plan, Rev 06, 9 December 2019 available.	Compliant	
303.	16.6		Transport Management Plan.	Within 4 months of receipt of project approval.	Verified previous audit. Transport Management Plan, Rev 05, 9 December 2019 available.	Compliant	
304.	16.7		Landscape Management Plan. (Incorporating a Vegetation Management Plan for site rehabilitation and the on-site Biodiversity offset.)	Within 12 months of the receipt of project approval.	Biodiversity and Rehabilitation Management Plan Approved 18 June 2019) prepared which replaces the previously approved Landscape Management Plan	Compliant	
305.	16.8		Extraction Management Plan (for operations within 5 vertical metres of the Great North Coal Seam).	Prior to commencing any extraction within 5 vertical metres of the Great Northern Coal Seam.	Verified previous audit. The Lower Level Extraction Plan was approved by DP&E on 23 November 2016.	Compliant	

AUDIT CHECKLIST: Statement of Commitments
Company: Metromix Teralba Quarry

James Hart Consulting
Date: 6 February 2023

JHC Ref No	Cond. No.	Desired Outcome	Action	Timing	Finding and Recommendations	Compliance rating	Issue #
306.	16.9		Heritage Management Plan.	Within 4 months of the receipt of project approval.	Verified previous audit. Heritage Management Plan (Ver 03, 11 September 2019) available.	Compliant	
307.	16.10		Annual Environmental Management Report (AEMR).	Annually (by 31 March each year covering the previous calendar month)	Annual Environmental Management Reports have been submitted to DPE every year. e.g. 2019 – submitted 30/03/20. 2020 – submitted 31/03/21. 2021 – submitted 29/03/22.	Compliant	
308.	16.11		Hydrocarbon Management Plan. (Incorporating the storage and use of fuel and spill management.)	Within 6 months of receipt of approval.	Included in the Water Management Plan, Emergency Management Plan and Pollution Response Management Plan	Compliant	
309.	16.12		Annual Production Statistics to the DTIRIS (Division of Resources and Energy).	Annually (by 31 July).	Teralba Quarry production is reported annually, and reported in the Annual Reviews.	Compliant	
310.	16.13		Geotechnical Assessments and relevant design drawings for site structures and buildings (for submission to the Mines Subsidence Board).	Prior to construction of site infrastructure and buildings.	No buildings or structures had been constructed prior to this audit so no design drawings for site structures and buildings (for submission to the Mines Subsidence Board) had been required.	Not Triggered	
311.	16.14	Ensure planning is undertaken sufficiently ahead of quarry closure to achieve a smooth transition to the subsequent land uses.	Prepare a Quarry Closure and Final Land Use Plans for the land within the Project Site that is to be developed for purposes other than nature conservation. The Plans would be prepared in consultation with the Lower Macquarie City Council	3 years prior to cessation of extraction north of Rhondda Road (approximately 2031) and south of Rhondda Road (approximately 2039).		Not Triggered	

Appendix D. Consultation Records

Independent Environmental Audit – Metromix Teralba Quarry

Commercial in Confidence

James Hart

From: Lisa Andrews <lisaandrews.ic@gmail.com>
Sent: Tuesday, 17 January 2023 12:03 PM
To: James Hart
Subject: Re: FW: Independent Environmental Audit - Metromix Teralba Quarry

Hi James, just letting you know that I didn't receive any feedback from members regarding the upcoming audit.

The Metromix Teralba Quarry CCC is a very small committee. We only meet annually and receive a comprehensive presentation from the proponent. There are no real issues or concerns raised.

Best wishes
Lisa

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

The information contained in this email and attachments is confidential and may be subject to privilege and is intended for the exclusive use of the addressees. You may not disclose or use the information in the email and attachments without the prior consent of the sender. If you have received this email in error, please notify the sender and delete this email. The unauthorised use of this email may result in liability for breach of confidentiality, privilege or copyright. No warranties are provided that the email is computer virus or other defect free.

On Tue, Dec 20, 2022 at 1:15 PM James Hart <james_hart@bigpond.com> wrote:

Hi Lisa,

I have been engaged to undertake an Independent Environmental Audit of the Metromix Teralba Quarry. As a requirement of the Independent Environmental Audit process, I am seeking feedback from various agencies, including the Chair of the CCC, in regard to any issues that may have arisen or concerns which you may have in relation to the quarry operations. Any issues raised will be included in the audit.

I would appreciate it if you would respond to this email identifying any issues or concerns you have, or if you have none, please respond and let me know.

If you have any questions or prefer to talk to someone about issues regarding the development, you can contact me on 0408238682.

Independent Environmental Audit – Metromix Teralba Quarry

Commercial in Confidence

James Hart

From: James Epstein <James.Epstein@planning.nsw.gov.au>
Sent: Wednesday, 11 January 2023 11:28 AM
To: James Hart
Cc: Heidi Watters
Subject: RE: Independent Environmental Audit - Metromix Teralba Quarry

Hi James

Metromix Teralba has submitted an auditor endorsement request which has now been approved.

As such, the department requests particular attention is made to the following items during the upcoming Independent Environmental Audit:

- Implementation of the Noise Management Plan; and
- Implementation of the Blast Management Plan

Regards

James Epstein
Senior Compliance Officer

Development Assessment | Department of Planning and Environment
T 02 6575 3419 | M 0429 395 691 | E james.epstein@planning.nsw.gov.au
PO Box 3145, Singleton NSW 2333

www.dpie.nsw.gov.au



The Department of Planning, Industry and Environment acknowledges that it stands on Aboriginal land. We acknowledge the traditional custodians of the land and we show our respect for elders past, present and emerging through thoughtful and collaborative approaches to our work, seeking to demonstrate our ongoing commitment to providing places in which Aboriginal people are included socially, culturally and economically.



From: James Hart <james_hart@bigpond.com>
Sent: Wednesday, 21 December 2022 7:49 PM
To: James Epstein <James.Epstein@planning.nsw.gov.au>
Cc: Heidi Watters <Heidi.Watters@Planning.nsw.gov.au>
Subject: Re: Independent Environmental Audit - Metromix Teralba Quarry

My apologies James. Seems I jumped the gun on this one.

Independent Environmental Audit – Metromix Teralba Quarry

Commercial in Confidence

James Hart

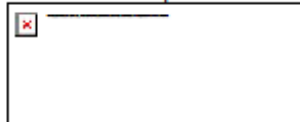
From: Lisa Potter <Lisa.Potter@epa.nsw.gov.au>
Sent: Monday, 9 January 2023 10:06 AM
To: James Hart; Daniel Whitley
Subject: RE: Independent Environmental Audit - Metromix Teralba Quarry

Hi James

I conducted an inspection of the Metromix premises on 18/11/2020. At that time no concerns were identified with the operations at Teralba. One issue raised during the inspection was the accuracy of dust and noise monitoring at point A (monitoring point 11) on Myrtle St, as this is an industrial area and there is potential for the monitoring results to be impacted by industrial area operations. No further action was taken at that time.

Kind regards

Lisa Potter
Operations Officer
Regulatory Operations
NSW Environment Protection Authority
D 02 4908 6805 | M 0428 565 162



www.epa.nsw.gov.au @NSW_EPA

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

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

From: James Hart <james_hart@bigpond.com>
Sent: Tuesday, 20 December 2022 1:38 PM
To: Daniel Whitley <daniel.whitley@epa.nsw.gov.au>; Lisa Potter <Lisa.Potter@epa.nsw.gov.au>
Subject: FW: Independent Environmental Audit - Metromix Teralba Quarry

Hi Daniel/ Lisa,

I have been engaged to undertake an Independent Environmental Audit of the Metromix Teralba Quarry. As a requirement of the Independent Environmental Audit process, I am seeking feedback from various agencies, including the EPA, in regard to any issues that may have arisen or concerns which you may have in relation to the quarry operations. Any issues raised will be included in the audit.

I would appreciate it if you would respond to this email identifying any issues or concerns you have, or if you have none, please respond and let me know.

If you have any questions or prefer to talk to someone about issues regarding the development, you can contact me on 0408238682.



Regional
NSW

AREQ0035522

Mr James Hart
James Hart Consulting
By email: james_hart@bigpond.com

Dear Mr Hart,

Subject: Metromix Teralba Quarry

Thank you for your email dated 20 December 2022 requesting consultation on the independent audit to be undertaken of the Metromix Teralba Quarry.

Records held by the NSW Resources Regulator (the Regulator) indicate that there are no mining leases under the *Mining Act 1992* currently associated with the quarry. As such, the Regulator does not have any requirements for the independent audit.

Yours sincerely

Jenny Ehmsen
Principal Compliance Auditor

21 December 2022

NSW Resources Regulator
516 High Street Maitland NSW 2320 | PO Box 344 HRMC NSW 2310 | Tel: 1300 814 609 |
resourcesregulator.nsw.gov.au

Appendix E. Site Photographs



Eastern site entry



Northern site entry with site contact details displayed.



Gravel berm provided for erosion and sediment control



Sediment fence at surface water outlet.



Photographs showing rehabilitated areas



Above ground storage tank with spill kit nearby



Portable refuelling tank with spill kit.