



Independent Environmental Audit:

Teralba Quarry

Development Consent SSD 10-0183



Audit Reference:	AQUAS Job No. 1266.01
Audit Organisation:	Metromix Pty Ltd
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This report has been prepared by: James Hart

Signature

Date 11/02/2020

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Independent Audit Certification Form

Development Name Teralba Quarry
Development Consent No. SSD 10-0183 (MOD 1)
Description of Development Hard Rock Quarry
Development Address Located approximately 67 kilometres north of Windsor along Putty Road,
NSW
Operator Metromix Pty Ltd
Operator Address Head Office, Level 4, 107 Phillip Street, Parramatta NSW 2124

Title of Audit Independent Environmental Audit: Teralba Project SSD 10-0183

I certify that I have undertaken the independent audit and prepared the contents of the attached independent audit report and to the best of my knowledge:

- The audit has been undertaken in accordance with relevant approval condition(s) and in accordance with the auditing standard AS/NZS ISO 19011:20184 and Post Approval Guidelines – Independent Audits;
- The findings of the audit are reported truthfully, accurately and completely;
- I have exercised due diligence and professional judgement in conducting the audit;
- I have acted professionally, in an unbiased manner and did not allow undue influence to limit or over-ride objectivity in conducting the audit;
- I am not related to any owner or operator of the development as an employer, business partner, employee, sharing a common employer, having a contractual arrangement outside the audit, spouse, partner, sibling, parent, or child;
- I do not have any pecuniary interest in the audited development, including where there is a reasonable likelihood or expectation of financial gain or loss to me or to a person to whom I am closely related (i.e. immediate family);
- Neither I nor my employer have provided consultancy services for the audited development that were subject to this audit except as otherwise declared to the lead regulator prior to the audit; and
- I have not accepted, nor intend to accept any inducement, commission, gift or any other benefit (apart from fair payment) from any owner or operator of the development, their employees or any interested party. I have not knowingly allowed, nor intend to allow my colleagues to do so.

Note.

a) The Independent Audit is an 'environmental audit' for the purposes of section 122B (2) of the Environmental Planning and Assessment Act 1979. Section 122E provides that a person must not include false or misleading information (or provide information for inclusion in) an audit report produced to the Minister in connection with an environmental audit if the person knows that the information is false or misleading in a material respect. The maximum penalty is, in the case of a corporation, \$1 million and for an individual, \$250,000.

b) The Crimes Act 1900 contains other offences relating to false and misleading information: section 192G (Intention to defraud by false or misleading statement—maximum penalty 5 years imprisonment); sections 307A, 307B and 307C (False or misleading applications/information/documents—maximum penalty 2 years imprisonment or \$22,000, or both).

Signature

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Email Address James.hart@aquas.com.au
Auditor Certification Exemplar Global Lead Environmental Auditor No 12107
Date February 2020

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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
DA	Development Approval
DDG	Deposition Dust Gauge
DPI&E	Department of Planning Industry and Environment
DPI	Department of Primary Industry
DRG	Department 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
NMP	Noise Management Plan
NOW	NSW Office of Water
OEH	Office of Environment and Heritage
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 on 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 – March 2018) 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.

Schedule 5, condition 9 of the approval requires an Independent Environmental Audit to be conducted 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:

- 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 the these approvals; and
- e) recommend measures or actions to improve the environmental performance of the project, and/or any assessment, plan or program required under these approvals. Audit Objectives

The objective of this Independent Environmental Audit was to assess the operations at the Teralba Quarry and provide a report in accordance with the requirements of Schedule 5, condition 9 of the development approval.

1.2 Audit Scope and Criteria

The scope of this audit was limited to the site, being Lots 1 and 2 of DP 224037, and the activities and processes carried out by Metromix in operating the quarry. The audit is the second for the project and covered the period 1 January 2017 to 31 December 2019.

The audit scope included:

- the conditions of all relevant approvals;
- management plan requirements;
- the requirements of relevant regulatory agencies;
- the status of the operation;
- the performance of the operation;
- results from previous audits;
- any incidents or community complaints;
- feedback received from other regulatory agencies on the performance of the operation; and
- feedback received from the community / community consultative committee on the performance of the operation.

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

2 Methodology

The audit methodology included a review of approval conditions and key management plans prepared for the quarry operations, interviews with project personnel, and a site inspection to assess the level of compliance with and implementation of those requirements.

2.1 Audit Team

The audit was conducted by the following:

Auditor	Role	Qualifications and Experience
James Hart	Lead Environmental Auditor Exemplar Global No 12105	See attached CV

James Hart, was endorsed by the Secretary of the Department of Planning and Environment on 20 January 2020.

2.2 Approvals and Documents Audited

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

- Development Approval – SSD 10-183 (MOD 1);
- Environmental Protection Licence 536, Variation 5, April 2018;
- Air Quality Management Plan – Teralba Quarry, Rev 6, 9 December 2019;

- Noise Management Plan – Teralba Quarry, Rev 02, 9 August 2017;
- Blast Management Plan – Teralba Quarry, Rev 2, 9 October 2018;
- Transport Management Plan – Teralba Quarry, Rev 5, 9 December 2019;
- Water Management Plan – Teralba Quarry, Rev 4, 19 June 2018;
- Biodiversity and Rehabilitation Management Plan – Teralba Quarry, Approved 18 June 2019;
- Heritage Management Plan - Teralba Quarry, Ver 03, 11 September 2019;
- Environmental Management Strategy – Teralba Quarry, Rev 03, 20 December 2018;
- Lower Level Management Plan – Teralba Quarry, September 2016;
- Bushfire Management Plan – Teralba Quarry, Final, February 2014;
- Waste Management Plan – Teralba Quarry, Rev 03, 9 December 2019;
- Environmental Protection Licence No 536, NSW EPA, 5 April 2018;
- Teralba Quarry Annual Review, January 2017 – December 2017;
- Teralba Quarry Annual Review, January 2018 – December 2018;
- Teralba Quarry Annual Review, January 2019 – December 2019;
- Teralba Quarry Complaints Register, up January 2020;
- Teralba Quarry Minutes Community Consultative Committee October 2017, May 2018, October 2018, May 2019, October 2019;
- Teralba Quarry Monthly Truck Movements, 2017;
- Teralba Quarry Monthly Truck Movements, 2018;
- Teralba Quarry Monthly Truck Movements, 2019;
- August 2019 Noise Monitoring Results – Teralba Quarry, Final. Spectrum Acoustics, 23 September 2019;
- November 2019 Noise Monitoring Results – Teralba Quarry, Final. Spectrum Acoustics, 30 December 2019;
- Summary of 2017 Non Compliances and Departures From Environment Plans, Procedures and Codes of Conduct
- Water Access licence 40303.
- Metromix Teralba Bush Regeneration, Quarterly Report, T.E.N.T.A.C.L.E INC. (April-June) 2019;
- Metromix Teralba Bush Regeneration, Quarterly Report, T.E.N.T.A.C.L.E INC. (July - September) 2019;
- Remittance Advice for Road Levy, July 2019;
- Teralba Quarry Team Brief, May 2019;
- Teralba Quarry Annual Return, 2019;
- Teralba Quarry – Independent Environmental Audit, Trevor Brown and Assoc., – Feb 2017;
- Teralba Quarry Waste Summary for 2017, 2018 and 2019;
- Teralba Quarry PM₁₀ Monitoring 2017, 2018 and 2019.

2.3 Agency and Community Consultation

The following people were consulted with prior to the audit to obtain feedback and to focus the audit criteria towards key issues.

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

Contact	Agency	Comments
James Epstein Senior Compliance Officer	Planning & Assessment Department of Planning, Industry and Environment	The Department requests that the auditor pay particular focus with the following: <ul style="list-style-type: none"> Air quality criteria and the air quality management plan; Site water management; and Rehabilitation
Colin Phillips Team Leader	Energy and Resource Assessments Department of Planning, Industry and Environment	From the assessments team, there are no specific matters that I wish to raise.
G Mathews	Lake Macquarie City Council	No response.
Margaret MacDonald-Hill Independent Chairperson	Community Consultative Committee	The Committee does not have any concerns with the Metromix operations at the Teralba Quarry.
Steven Cox Senior Team Leader Planning, Hunter Central Coast Branch	Biodiversity and Conservation Division Department of Planning, Industry and Environment	No specific concerns to raise for the audit
Deb Alterator Project Support Officer	Crown Lands Department of Planning, Industry and Environment	No Crown land, roads or waterways adjoining or proposed to be used as part of the development. No impact on Crown estate. Nil comment.
	Natural Resources Access Regulator	No Response
Claire McGarity	NSW Environment Protection Authority	No response

2.4 Name and Position of Persons Interviewed

The following site personnel were interviewed during the conduct of the audit:

Name	Position/Role	Organisation	Date of Interview
Mo Yunusa	Quarry Manager	Metromix	3-4 February 2020
Janelle Kerr	Risk Manager (Safety Health & Environment)	Metromix	3-4 February 2020
Nicholas Warren	Environmental Consultant	RW Corkery	3-4 February 2020

2.5 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 9.15, 3 February 2020, in the Teralba Quarry site office.

Key operational documents were reviewed, and evidence of compliance was sought through the interview process. Key documents were the various management plans required under the approval.

Documentation included a combination of hard copy records and electronic records maintained by Metromix, with records generally available during the audit. Additional records were provided subsequent to the onsite audit.

A site inspection was then conducted, and included inspection of roads and drainage structures, inspection of access control measures implemented, and inspection of quarrying operations. At the time of audit, activities being undertaken included drilling blast holes, loading and haulage of material from the quarry to the processing plant, screening of material and loading of trucks for dispatch.

A closing meeting was held at 3.30pm on 4 February 2020 where the preliminary audit findings were presented.

2.6 Audit Compliance Definitions

Audit compliance status descriptors were in accordance with the Independent Audit – Post Approval Requirements.

Compliant	Where the auditor has collected sufficient verifiable evidence to demonstrate that the intent and all elements of the requirement of the regulatory approval have been complied with within the scope of the audit
Non-compliant	Where the auditor has collected sufficient verifiable evidence to demonstrate that the intent of one or more specific elements of the regulatory approval have not been complied with within the scope of the audit.
Not triggered	A regulatory approval requirement has an activation or timing trigger that had not been met at the time of the audit inspection, therefore a determination of compliance could not be made.

Opportunities for Improvement are recorded where the audit identified issues of concern which do not strictly relate to the scope of the audit or assessment of compliance. Further Opportunities for Improvement are considered to be areas where performance may be improved.

2.7 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 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:

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

The attached checklists record the outcomes of the audit process. Nine non-compliances were identified where compliance with the conditions of consent, EPL, or management plans could not be verified. The following sections summarise key findings for review and action by Metromix as appropriate.

3.2 Previous Audit Findings

Previous audit findings were reviewed as part of the current audit to assess implementation of actions identified to address issues. Information available showed previous findings had generally been addressed. A summary of previous findings and status is provided in Appendix A.

3.3 Development Consent (SSD_4978)

Schedule 2 – Administrative Conditions

The site had implemented processes to generally manage compliance with the administrative control requirements of the conditions of consent.

One noncompliance was raised against Condition 2-2 which requires the project to be carried out in compliance with the conditions of approval. Non-compliances were identified with other conditions of approval, resulting in a non-compliance with this approval condition.

Schedule 3 – Environmental Performance Conditions

All of the required management plans had been developed and provided to DPI&E for review and approval.

Two non-compliances were raised in relation to environmental performance conditions.

One noncompliance was raised against Condition 3-7 as a result of a non-compliance with the Noise Management Plan.

- Noise reports had not been submitted to the EPA within 30 days of completion of noise monitoring.

A second non-compliance was raised against Condition 3-19 in relation to dust monitoring.

- No monitoring data was available for the dust deposition gauge located at EPL04 for January 2019.

A third non-compliance was raised against Condition 3-61 in relation to lodging of the rehabilitation bond.

- The rehabilitation bond had not been submitted to DPI&E within 6 months of the approval of the Biodiversity and Rehabilitation Management Plan.

Schedule 4 – Additional Procedures

No non-compliances were identified with the Conditions of Approval under Schedule 4.

Schedule 5 – Environmental Management, Reporting and Auditing

Processes had been implemented to comply with environmental management requirements. An Environmental Management Strategy had been documented and implemented, management plans prepared, and an annual review process implemented.

Two non-compliances were raised in relation to Schedule 5 requirements.

- All management plans had not been submitted to the Secretary within 3 months of modification of the conditions of approval. 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.
- While the previous audit report had been submitted within 3 months of commissioning of the audit, a response to recommendations contained within the report had not been provided.

3.4 Environmental Protection Licence (EPL 0536)

An EPL had been issued for the operations, which places requirements on the site for the management of air, noise, water, and complaints. The site had complied with requirements for monitoring of noise, blasting, and surface water, and complaints management and reporting processes have been implemented and met.

The following non-compliances were identified in relation to EPL requirements.

- Dust deposition monitoring result was not available for EPL04 for January 2019. The property owner had denied access to the site (EPL Condition M2.2).
- Weather monitoring data was not available for the period 28/07/18 to 10/08/18 due to weather station breakdown (EPL Condition M4.1).
- Records of noise complaint in April 2018 did not include date and time (April 2018) or details of the complainant (EPL Condition M5.2).
- Noise monitoring reports had not been submitted to the EPA within 30 days of the completion of the bi-annual noise monitoring (EPL Condition R4.2).
- The EPA had not been informed in writing of the appointment of the new Quarry Manager as the site contact person (EPL Condition G2.2).

3.5 Water Access Licence 40303

A Water Access Licence had been obtained for extraction of groundwater from a bore for use in the Quarry. The water access licence allowed for the extraction of up to 1407ML/year. The quarry had complied with extraction limits.

It was noted that the works approval attached to the water access licence was for a property in Aberdeen, NSW. The quarry was in discussion with WaterNSW to address this issue.

3.6 Air Quality Management Plan

An Air Quality Management Plan (AQMP) Rev 6, 9 December 2019, had been prepared for the project. The AQMP had been updated with the updated plan approved by DPI&E on 12 December 2019. The AQMP included measures to minimise and monitor air quality impacts of the site's operations and requirements for air quality monitoring.

One non-compliance was identified in relation to the requirements of the AQMP.

- No monitoring data was available for the dust deposition gauge located at EPL04 for January 2019.

It was noted that the owner of the property on which EPL04 had refused access to the site. Metromix moved the dust gauge to the Teralba Primary School.

Several exceedances of the 24 hour average Dust (PM₁₀) criteria had been recorded. However, all results were attributed to emissions from bushfires.

3.7 Water Management Plan

A Water Management Plan (WMP) has been prepared for the Quarry (Rev 04, 19 June 2018), which had been submitted to and approved by DPI&E (V1.0, approved 2/10/18).

Records were available to demonstrate that water monitoring had been conducted in compliance with the requirements of the consent conditions and EPL. No exceedances of water quality criteria had been recorded.

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

3.8 Biodiversity and Rehabilitation Management Plan

The Quarry has been operating under a Biodiversity and Rehabilitation Management Plan (BRMP) which had been updated (Rev 04, 19 June 2018) and submitted to DPI&E and approved in 18 June 2019. The LMP included requirements for of clearing, threatened species, weeds and feral pests, and monitoring requirements.

All extraction activities had been undertaken within Domain 6, with clearing limited to the removal of isolated trees within Domain 6.

Continued rehabilitation of the former silt pond (Domain 4) has been undertaken, and rehabilitation of the southeast corner where material had been removed had been undertaken.

A consultant had been engaged to conduct ecological monitoring, and feral animal and weed inspections had been conducted by the quarry management team. A long-term rehabilitation monitoring plot had been established on the east of Domain 4, with monitoring conducted by Niche Environment and Heritage in 2018.

One non-compliance were identified in relation to the BRMP.

- The rehabilitation bond had not been submitted to DPI&E within 6 months of the approval of the Biodiversity and Rehabilitation Management Plan.

3.9 Noise Management Plan

A Noise Management Plan (NMP, Rev 02, 9/08/2018) had been prepared for the project and updated following approval of the modification to the conditions of consent. The NMP had been updated and approved by DPI&E on 2 October 2018. The site had implemented measures to comply with site working hours, and noise monitoring had been conducted during operational periods of the quarry in accordance with the requirements of the noise management plan and the EPL. Noise monitoring results indicated the site was complying with noise limits.

No noise complaints had been received, and noise monitoring conducted has shown that the site is complying with noise limits.

3.10 Transport Management Plan

A Transport Management Plan (TMP Rev 05, 9/12/19) had been updated and approved on 9 December 2019. The TMP included a driver code of conduct.

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 brake noise. Records verified that the complaint had been investigated, and actions to address the complaint implemented.

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.

No non-compliances were identified.

3.11 Blast Management Plan

A Blast Management Plan was prepared to satisfy Project Approval Schedule 3 condition 16 and submitted to DPI&E on 6 September 2013. The Blast Management Plan was updated 20 June 2016 and again on 10 January 2020 and submitted to DPI&E for review.

The audit found that the site was in compliance with requirements of the Blast Management Plan (BMP). Blast monitoring had been conducted by the quarry blasting contractor. Blast monitoring data showed that the site had complied with blast limits.

3.12 Heritage Management Plan

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 DP&I and approved on 19 September 2014.

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

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

Two aboriginal artefacts had been identified during a field survey prior to stage 2 clearing works, which were collected and removed from the impact area with the verbal agreeance of all Aboriginal representatives who participated in the fieldwork.

No unexpected heritage finds had been identified.

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

3.13 Bushfire Management Plan

A Bushfire Management Plan (February 2014) had been prepared and maintained for the site.

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

Processes and resources had been identified for responding to bushfires, and asset protection zones had been provided around quarry structures.

No non-compliances with the Bushfire Management Plan were identified.

3.14 Waste Management Plan

A Waste Management Plan (Rev 03, 9/12/19) had been prepared and maintained for the project. The current version (Rev 03, 9/12/19) had been approved by DPI&E in December 2019.

The audit found that the site was in compliance with requirements of the Waste Management Plan. Facilities had been provided for the segregation and storage of waste, and records of waste disposal were maintained.

3.15 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.

3.16 Environmental Management Strategy

An Environmental Management Strategy (EMS) had been developed and implemented for the site. The EMS had been prepared in 2016 and approved by DPI&E on 19 May 2017.

The EMS had been updated (Revision 3, 20/12/2018) and approved by DPI&E on 25/01/2019.

No no-compliances were identified in regard to implementation of the EMS.

3.17 Areas of Non-compliance

Issue No.	Condition	Requirement	Issue sighted
01	Schedule 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; 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.
02	Schedule 3-18 EPL 0536 M2.2 SoC 11.18	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 	Dust deposition monitoring result was not available for site 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 has been relocated to an alternative location in January 2019. No further action required.

		<p>conditions and extraordinary events (see Note d to Tables 5-7 above);</p> <p>(d) minimise any visible off-site air pollution;</p> <p>(e) minimise surface disturbance of the site and undertake progressive rehabilitation of the site; and</p> <p>monitor and report on compliance with the relevant air quality conditions in this approval, to the satisfaction of the Secretary.</p>	
03	Schedule 3-21 EPL 0536 M4.1	<p>Meteorological monitoring</p> <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 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. 	<p>Weather monitoring data was not available for the period 28/07/18 to 10/08/18 due to weather station breakdown.</p> <p>Recommendation: The weather station has been repaired (10/08/18) and monitoring has continued. No further action required.</p>
04	Schedule 3-61	<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> <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. <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>	<p>The revised rehabilitation bond had not been lodged within six months of approval of the Biodiversity and Rehabilitation Management Plan.</p> <p>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.</p>
05	Schedule 5-5	<p>Revision of Strategies, Plans & Programs</p> <p>Within 3 months of the submission of an:</p> <ol style="list-style-type: none"> annual review under condition 4 above; incident report under condition 7 below; audit report under condition 9 below; and any modifications to this approval, 	<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</p>

		<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>Strategy had not been submitted within the required timeframe.</p> <p>Recommendation: Metromix should ensure that all management plans are reviewed and, where revised, submitted to the Secretary within 6 weeks of the review.</p>
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: Metromix should ensure that a response to recommendations contained within this report is documented and submitted to the Secretary with the audit report.</p>
07	EPL 0536 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 (f) if no action was taken by the licensee, the reasons why no action was taken. 	<p>Records of complaints did not always include the information as required by EPL 0536 M5.2. Record for complaint received April 2018 did not include date and time of complaint, or details of the complainant.</p> <p>Recommendation: Metromix should ensure that records of complaints include all information required by EPL 0536 M5.2. It is noted that a complaint form has been documented which includes prompts for required information.</p>
08	EPL 0536 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 exceedances of the limits contained in the Noise Limits table 	<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: Metromix should ensure that noise compliance reports are obtained promptly from the noise consultant and</p>

			submitted to the EPA within 30 days of the noise monitoring.
09	EPL 0536 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 persons following the replacement of the Quarry Manager in April 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>

3.18 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.

4 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, nine non-compliances were raised where compliance with requirements of the conditions of consent, environmental protection licence, water access licences 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. As per the Independent Audit Post Approval Requirements (June 2018) Section 4.3.2, Metromix must submit their response to the audit findings to the Department in a separate document to the final Independent Audit Report.

ATTACHMENTS

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

CIRCULATION

- ✓ **Metromix**
- ✓ **AQUAS Pty Ltd**

5 Substantive Changes.

No substantive changes were made to the audit report as a result of review of the draft audit report.

Appendix A. - Previous Audit Findings

Areas of Non-compliance

Issue No.	Condition	Requirement	Issue sighted	Metromix Response	Status										
	Schedule 2 Condition 8 PA 10_0183	<p>The Proponent must not:</p> <ul style="list-style-type: none">(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(c) dispatch more than 241 laden trucks per day or 20 per hour westwards along Rhondda Road; or(d) dispatch more than 85 laden trucks per day or 8 per hour eastwards through Teralba; or(e) dispatch laden trucks for travel through Teralba between 6 pm and 6 am; or <p>receive unladen trucks via the railway street entrance between 6 pm and 7 am.</p>	On five occasions during 2014, the hourly truck limit on truck movements eastwards through Teralba was exceeded. On each occasion, 9 truck movements occurred.	The allocation of 9 trucks per hour instead of 8 trucks per hour on 5 occasions was due to the allocator misjudging the number of trucks allocated in that hour. A flag has been built into the docketing software notifying the allocator of the number of trucks per hour.	<p>During the period January 2017 to December 2019, no exceedances of the hourly truck limit had occurred.</p> <p>Closed</p>										
N-02	Schedule 2 Condition 9 PA 10_0183	<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><i>Dispatch Period</i></th><th><i>Maximum Hourly Dispatch Rate</i></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: Dispatch times and maximum hourly rates westwards along Rhondda Road or eastwards through Teralba are further limited by condition 8 above.</i></p>	<i>Dispatch Period</i>	<i>Maximum Hourly Dispatch Rate</i>	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	A single non-compliance with the truck despatch time limit occurred on one (1) occasion between 6.00pm and 5.00am in March 2015 when the maximum number of loaded trucks despatched was seven (i.e. one more than the limit of 6 in <i>Table 1 – Truck Dispatch Hours</i>).	The exceedance of one truck per hour in March 2015 was due to a driver putting back his start time due to fatigue reasons without consulting his transport supervisor. Metromix currently manages transport activities through operational planning, a comprehensive Driver's Code of Conduct, training of personnel and tool box talks as well as a transport monitoring program.	<p>No exceedances of the limits identified in Schedule 2 Condition 9 PA 10_0183 have been recorded for the period January 2017 to December 2019.</p> <p>Closed</p>
<i>Dispatch Period</i>	<i>Maximum Hourly Dispatch Rate</i>														
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														

Issue No.	Condition	Requirement	Issue sighted	Metromix Response	Status
	Schedule 3 Condition 8 PA 10_0183	<p>The Proponent shall prepare and implement a Noise Management Plan for the project to the satisfaction of the Director-General. This plan must:</p> <ul style="list-style-type: none"> ○ be submitted for approval to the Director-General within 4 months of the date of this approval; ○ 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; ○ describe the proposed noise management system in detail; and ○ 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. 	<p>Attended noise monitoring was not undertaken strictly in accordance with the Statement of Commitments or the Noise Management Plan during 2014 and 2015.</p> <p>Only one campaign of compliance noise monitoring was undertaken in 2014 and 2015</p>	<p>It was assumed that the conditions of EPL 536 took precedence over the Noise Management Plan with regards to monitoring requirements and Metromix commissioned monitoring in accordance with EPL 536, which required annual noise monitoring. Metromix acknowledges this assumption was in error. This has further been rectified following a recent update to EPL 536, which now reflects the need for noise monitoring twice each year. Two campaigns of noise monitoring were commissioned in 2016 (during the audit period) and two campaigns will be commissioned in 2017. A review of noise monitoring requirements will be undertaken at the end of 2017 during preparation of the 2017 Annual Review. As compliance with the Statement of Commitments and Noise Management Plan were demonstrated in 2016 and continued in 2017, Metromix is confident that compliance with this condition will be maintained.</p>	<p>Noise monitoring has been conducted twice each year for the period covered by the current audit.</p> <p>Closed.</p>

Issue No.	Condition	Requirement	Issue sighted	Metromix Response	Status															
	Schedule 3 Condition 11 PA 10_0183	<p>The Proponent must not carry out more than 1 blast a day on site, unless an additional blast is required following a blast misfire.</p> <p><i>Note: A blast may involve a number of explosions within a short period, typically less than two minutes.</i></p>	<p><u>Between February 2014 and December 2016 more than one blast conducted in one day occurred on 4 occasions:</u></p> <table><tr><th>Date</th><th>Time</th><th>Location</th></tr><tr><td>24/4/14</td><td>1241 & 1300pm</td><td>Ramp #1</td></tr><tr><td>20/5/14</td><td>1432pm</td><td>Ramp #2</td></tr><tr><td>15/4/15</td><td>1350pm</td><td>Stage 1A</td></tr><tr><td>23/6/15</td><td>1300pm</td><td>Stage 1A</td></tr></table> <p>Only one blast was conducted on any one day January 2014 and February 2017 with the exception of above, in accordance with Project Approval Schedule 3 condition 11.</p>	Date	Time	Location	24/4/14	1241 & 1300pm	Ramp #1	20/5/14	1432pm	Ramp #2	15/4/15	1350pm	Stage 1A	23/6/15	1300pm	Stage 1A	<p>Three of the four noted non-compliances involving the initiation of the two separate blasts on the one day were in fact initiated simultaneously.</p> <p>The records of planning (and initiation) of the blasts recorded the blasts as two separate events, whereas they were actually initiated simultaneously - and in reality should not be considered as a non-compliance. The 24 April 2014 blast was initially designed and drilled as a single blast. Holes were lost in the middle of the shot and it ended up being fired as two blasts 11 and 1A, 19 minutes apart.</p> <p>Metromix acknowledges that recording of blasts in this manner has led to a misunderstanding. Quarry management have communicated this need for the blast contractor to more accurately record blasts that are initiated simultaneously. All future blasts will occur on separate days in accordance with this condition. This has successfully been implemented for all blasts in 2016 and all blasts to date in 2017.</p>	<p>During the period January 2017 to December 2019, a maximum of one blast/day has occurred.</p> <p>Closed.</p>
Date	Time	Location																		
24/4/14	1241 & 1300pm	Ramp #1																		
20/5/14	1432pm	Ramp #2																		
15/4/15	1350pm	Stage 1A																		
23/6/15	1300pm	Stage 1A																		

Issue No.	Condition	Requirement	Issue sighted	Metromix Response	Status
	Schedule 3 Condition 21 PA 10_0183	<p>For the life of the project, the Proponent shall 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 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. 	<p>A meteorological monitoring station 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> <p>The meteorological station operated continuously and provided weather data with monthly annual wind roses prepared between 2014 and 2017, except for a period during August and October 2015 when the meteorological station was out of service due to equipment failure.</p>	<p>As noted in the Audit Report, this non-compliance was the result of technical failure of the meteorological station for a brief period during August and September 2015 when the meteorological station was out of service and includes the time required to resolve the technical issue with the monitor and to obtain the necessary parts to undertake the required repairs. Meteorological monitoring requirements were satisfied for the rest of the audit period.</p> <p>Metromix will continue to manage meteorological monitoring to ensure that any downtime is limited as much as practically possible in the event of any equipment malfunction in the future.</p>	<p>Weather monitoring data was not available for the period 28/07/18 to 10/08/18 due to weather station breakdown.</p> <p>Remains open</p>

Issue No.	Condition	Requirement	Issue sighted	Metromix Response	Status
	Schedule 3 Condition 23 PA 10_0183	The Proponent shall 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.	Overflow from Dam A into Dam B occurred once in April 2015 and once in January 2016 resulting in greater than 2000 kilolitres discharging from EPA monitoring point 5. (These discharges were not from stormwater retention dams on the Teralba Quarry site and Metromix was not able to stop or manage these discharges during the high rainfall events). These overflow releases were not reported to DP&E under Schedule 5 condition	<p>As described in the Audit Report, all discharge of water from the Quarry and monitoring of water quality during discharge was consistent with the condition of EPL 536 during the audit period, except in April 2015 and in January 2016 when the volume of discharge exceeded the limits specified in Condition L3.1 of EPL 536.</p> <p>As described in the approved Water Management Plan, water discharged from Dam B flows into an unnamed drainage channel via an outlet pipe, effectively mixing with the water overflowing from the Mine Adit Dam before flowing eastwards approximately 2km until its confluence with Lake Macquarie. The volume of water being discharged is monitored at the outlet pipe from Dam A. The flow of water from the Mine Adit Dam occurs continuously. The Quarry does not discharge water to the Mine Adit Dam with flow from this dam is not influenced by Quarry activity except where water is pumped from the Mine Adit Dam to Dam G for use in on site, effectively reducing discharge volume.</p> <p>Metromix considers that the two rainfall events and subsequent overflow of the Mine Adit Dam were not under the control of Metromix. The Metromix monitoring system recorded these events, demonstrating the effectiveness of current management. Metromix intend to continue implementing water management in accordance with the approved Water Management Plan. Metromix intends to seek a modification of Schedule 3, Condition 23 at a future date to enable the acknowledgement of such exceedances as beyond the control of Metromix.</p>	<p>No exceedances of water quality criteria as a result of quarry discharge have been recorded during the period covered by the current audit (January 2017 to December 2019).</p> <p>Closed</p>

Issue No.	Condition	Requirement	Issue sighted	Metromix Response	Status
	Schedule 3 Condition 53 PA 10_0183	<p>By the end of June 2014, unless the Director-General agrees otherwise, the Proponent shall enter into a conservation agreement pursuant to section 69B of the National Parks and Wildlife Act 1974 for the Offset Area, which records the obligations assumed by the Proponent under the conditions of this approval in relation to this area, and shall register this agreement pursuant to section 69F of the National Parks and Wildlife Act 1974. The conservation agreement must remain in force in perpetuity.</p> <p>If OEH is not prepared to enter into a conservation agreement, then to satisfy this condition, the Proponent may propose another conservation measure to secure the offset for approval by the Director-General.</p>	<p>The requirements of this condition were initially due by the end of June 2014.</p> <p>Metromix and its representatives have held numerous discussions with DP&E and OEH representatives regarding the required documentation in relation to registration of an agreement pursuant to section 69F of the National Parks and Wildlife Act 1974.</p> <p>Progress has occurred through the discussions and consultation with the agencies, with extensions of time approved by the DP&E in relation to securing the offset for approval and the conservation agreement (or other conservation measure).</p>	<p>Metromix has recently contacted DPE with regards to a proposed modification to the wording of this condition to reflect current management intentions. Once this modification is determined, Metromix will be in a position to finalise offsetting arrangements and therefore satisfy this conditional requirement. It is noted that an extension to this deadline until 31 December 2017 was granted by DPE on 31 May 2017. Given the need to extend the deadlines on a number of occasions were created by government agencies (not Metromix), consideration of this issue as a non-compliance is questioned.</p>	<p>A modification to PA 10_0183 was approved on 16 April 2018 that removed the approved biodiversity offset area from the consent and replaced this with biodiversity credits. A revised biodiversity offset strategy was subsequently approved in July 2018 that describes Metromix's intention to retire credits following purchase on the open market.</p> <p>OEH verifying Biodiversity credits (Stage 1 and 2 credits) had been retired 22/12/18.</p> <p>Closed</p>

Issue No.	Condition	Requirement	Issue sighted	Metromix Response	Status
	Schedule 3 Condition 58 PA 10_0183	<p>Within 6 months of the approval of the Landscape Management Plan, the Proponent shall lodge a Conservation and Rehabilitation Bond with the Department to ensure that the Biodiversity Offset Strategy and the rehabilitation of the site is implemented in accordance with the performance and completion criteria set out in the Landscape Management Plan. The sum of the bond shall be determined by:</p> <p>a) calculating the cost of implementing the Biodiversity Offset Strategy over the next 3years</p>	<p>The Landscape Management Plan was approved by DP&I on 19 September 2014.</p> <p>(a) Costs for implementing the Biodiversity Offset Strategy will be calculated when a Biodiversity Offset Conservation Agreement pursuant to the National Parks and Wildlife Act 1974 section 69B for the Offset Area is approved and registered pursuant to section 69F of the National Parks and Wildlife Act 1974.</p>	<p>As Metromix is yet to finalise arrangements to satisfy offsetting requirements under PA 10_0183, it has not been possible to submit an estimate of the Conservation Bond for consideration and approval by DPE. It is noted that the final offsetting arrangements may include in perpetuity funding arrangements that will effectively make any Conservation Bond redundant. DPE is aware of Metromix's progress with this matter and has approved an extension to finalise offsetting arrangements until 31 December 2017.</p>	<p>A modification to PA 10_0183 was approved on 16 April 2018 that removed the approved biodiversity offset area from the consent and replaced this with biodiversity credits. A revised biodiversity offset strategy was subsequently approved in July 2018 that describes Metromix's intention to retire credits following purchase on the open market.</p> <p>OEH verifying Biodiversity credits (Stage 1 and 2 credits) had been retired 22/12/18.</p> <p>Closed</p>

	<p>Schedule 5 Condition 7 PA 10_0183</p>	<p>The Proponent shall notify, at the earliest opportunity, the Director-General and any other relevant agencies of any incident that has caused, or threatens to cause, material harm to the environment.</p> <p>For any other incident associated with the project, the Proponent shall notify the Director-General and any other relevant agencies as soon as practicable after the Proponent becomes aware of the incident. Within 7 days of the date of the incident, the Proponent shall provide the Director-General and any relevant agencies with a detailed report on the incident, and such further reports as may be requested.</p>	<p>No reportable incidents were notified between February 2014 and February 2017.</p> <p>Discharge from Mine Adit Dam A into Dam B occurred in April 2015 and January 2016 following heavy rainfall events. As a result, more than 2000 kilolitres of water flowed from the disused coal mine adit into Dam B before discharging at EPA Point 5. The water was not from the stormwater retention dams on the Teralba Quarry site. Metromix reported this occurrence to the EPA and it was accepted that Metromix was not able to stop this discharge during the high rainfall event as the source was not from the quarry activities.</p> <p>These overflow/release events were reported to the EPA but not notified to DP&E and was not therefore compliant with this condition.</p>	<p>Metromix acknowledges that it has previously misunderstood the intention of this condition with respect to all identified non-compliance events. It was understood that an 'incident', as referenced in this condition, referred to an event that was causing or would result in material harm to the environment that was the direct result of management actions undertaken by Metromix. Several of the non-compliance issues identified in this audit, such as those relating to water discharge, particulate matter and meteorological monitoring were outside the control of Metromix and therefore do not reflect on the environmental management at the Quarry.</p> <p>It is noted that an incident is not defined in PA 10_0183, however a review of more recent State significant development consents reveals current practice in this regard. Metromix will use the following definition for an incident for future environmental management.</p> <p>An incident is a set of circumstances that: causes or threatens to cause material harm to the environment; and/or breaches or exceeds the limits or performance measures/criteria described in PA 10_0183, EPL 536 or approved management plans.</p> <p>Metromix will review all management plans for the Quarry, following DPE approval of the audit report and response, to ensure that this is reflected in these plans and communicated to all personnel operating within the Quarry.</p> <p>All future incidents identified during operations or as a result of monitoring programs will be notified to DPE and the EPA (where relevant to EPL 536).</p>	<p>During the period covered by the current audit (January 2017 to December 2019), Metromix had reported all incidents in compliance with Schedule 5 Condition 7.</p> <p>Closed</p>
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Issue No.	Condition	Requirement	Issue sighted	Metromix Response	Status												
	EPL 536 condition L3.1	<p>For each discharge point or utilisation area specified below (by a point number), the volume/mass of:</p> <p>a) liquids discharged to water; or;</p> <p>b) solids or liquids applied to the area;</p> <p>must not exceed the volume/mass limit specified for that discharge point or area.</p> <table><tr><th>Point</th><th>Units of Measure</th><th>Volume/Mass Limit</th></tr><tr><td>4</td><td>Kilolitres/day</td><td>-</td></tr><tr><td>5</td><td>Kilolitres/day</td><td>2000</td></tr><tr><td>6</td><td>Megalitres/year</td><td>113</td></tr></table>	Point	Units of Measure	Volume/Mass Limit	4	Kilolitres/day	-	5	Kilolitres/day	2000	6	Megalitres/year	113	<p>All discharge from the Quarry was consistent with this condition during the audit period except in April 2015 and in January 2016 when overflow from Mine Adit Dam A into Dam B occurred and more than 2,000 KL of water was discharged at Point 5. These discharge events were the result of significant rainfall events and not under the control of Metromix.</p>	<p>As described in the Audit Report, all discharge of water from the Quarry and monitoring of water quality during discharge was consistent with the condition of EPL 536 during the audit period, except in April 2015 and in January 2016 when the volume of discharge exceeded the limits specified in Condition L3.1 of EPL 536.</p> <p>As described in the approved Water Management Plan, water discharged from Dam B flows into an unnamed drainage channel via an outlet pipe, effectively mixing with the water overflowing from the Mine Adit Dam before flowing eastwards approximately 2km until its confluence with Lake Macquarie. The volume of water being discharged is monitored at the outlet pipe from Dam A. The flow of water from the Mine Adit Dam occurs continuously. The Quarry does not discharge water to the Mine Adit Dam with flow from this dam is not influenced by Quarry activity except where water is pumped from the Mine Adit Dam to Dam G for use in on site, effectively reducing discharge volume.</p> <p>Metromix considers that the two rainfall events and subsequent overflow of the Mine Adit Dam were not under the control of Metromix. The Metromix monitoring system recorded these events, demonstrating the effectiveness of current management. Metromix intend to continue implementing water management in accordance with the approved Water Management Plan. Metromix intends to seek a modification of Schedule 3, Condition 23 at a future date to enable the acknowledgement of such exceedances as beyond the control of Metromix.</p>	<p>No exceedances of water quality criteria as a result of quarry discharge have been recorded during the period covered by the current audit (January 2017 to December 2019).</p> <p>Closed</p>
Point	Units of Measure	Volume/Mass Limit															
4	Kilolitres/day	-															
5	Kilolitres/day	2000															
6	Megalitres/year	113															

Issue No.	Condition	Requirement	Issue sighted	Metromix Response	Status															
	EPL 536 condition 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.	<p>Between February 2014 and December 2016 more than one blast was conducted in one day on 4 occasions:</p> <table><tr><th>Date</th><th>Times</th><th>Location</th></tr><tr><td>24/4/14</td><td>1241 & 1300pm</td><td>Ramp #1</td></tr><tr><td>20/5/14</td><td>1432pm</td><td>Ramp #2</td></tr><tr><td>15/4/15</td><td>1350pm</td><td>Stage 1A</td></tr><tr><td>23/6/15</td><td>1300pm</td><td>Stage 1A</td></tr></table>	Date	Times	Location	24/4/14	1241 & 1300pm	Ramp #1	20/5/14	1432pm	Ramp #2	15/4/15	1350pm	Stage 1A	23/6/15	1300pm	Stage 1A	<p>Three of the four noted non-compliances involving the initiation of the two separate blasts on the one day were in fact initiated simultaneously~</p> <p>The records of planning (and initiation) of the blasts recorded the blasts as two separate events, whereas they were actually initiated simultaneously - and in reality should not be considered as a non-compliance. The 24 April 2014 blast was initially designed and drilled as a single blast. Holes were lost in the middle of the shot and it ended up being fired as two blasts 11 and 1A. 19 minutes apart.</p> <p>Metromix acknowledges that recording of blasts in this manner has led to a misunderstanding. Quarry management have communicated this need for the blast contractor to more accurately record blasts that are initiated simultaneously. All future blasts will occur on separate days in accordance with this condition. This has successfully been implemented for all blasts in 2016 and all blasts to date in 2017.</p>	<p>During the period January 2017 to December 2019, a maximum of one blast/day has occurred.</p> <p>Closed.</p>
Date	Times	Location																		
24/4/14	1241 & 1300pm	Ramp #1																		
20/5/14	1432pm	Ramp #2																		
15/4/15	1350pm	Stage 1A																		
23/6/15	1300pm	Stage 1A																		

Issue No.	Condition	Requirement	Issue sighted	Metromix Response	Status
	EPL 536 condition O6.1	<p>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:</p> <p>(a).....</p> <p>(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.</p>	<p>An incident resulting in silt and clay material being tracked onto Rhondda Rd occurred on 26 May 2016. Metromix responded washing down all asphalt and concrete pavements within the Teralba Quarry site and installation of additional water sprays and completion of concreted work on the internal roads to reduce the potential for repeat occurrence during prolonged dry periods.</p>	<p>As noted in the comments on this non-compliance in the Audit Report, Metromix responded to this incident by cleaning the road surface and pavements within the Quarry to limit the potential for material to be tracked onto Rhondda Road. Additional management measures were installed including additional water sprays and roads that were heavily trafficked were sealed with concrete to limit silt and clay movement. Metromix continues to educate truck drivers regarding their responsibilities for management of silt and clay tracking through tool box talks. All drivers are required to sign a Driver's Code of Conduct that requires drivers to clear tyres and truck bodies of all materials prior to departing the Quarry. It is intended that these management and training measures will continue and be enforced.</p>	<p>Implementation of wheel wash and sprays was verified during the site inspection. It was noted that barriers had been provided to prevent vehicles bypassing the wheel wash.</p> <p>No further incidents resulting in silt and clay material being tracked onto Rhondda Rd have occurred.</p> <p>Closed</p>

Issue No.	Condition	Requirement	Issue sighted	Metromix Response	Status																																					
	EPL 0536 condition M4.1	<p>At the point(s) identified below, the licensee must monitor (by sampling and obtaining results by analysis) the parameters specified in Column 1 of the table below, using the corresponding sampling method, units of measure, averaging period and sampling frequency, specified opposite in the Columns 2, 3, 4 and 5 respectively.</p> <p>Point 19</p> <table><tr><th>Parameter</th><th>Method</th><th>Unit of Measure</th><th>Averaging Period</th><th>Frequency</th></tr><tr><td>Rainfall</td><td>AM-4</td><td>m m</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>15 mins</td></tr><tr><td>Wind speed @10m</td><td>m/s</td><td></td></tr><tr><td>Temp @ 2m</td><td>AM-4</td><td>Degrees Celsius</td><td></td></tr><tr><td>Temp @ 10m</td><td>AM-4</td><td>Degrees Celsius</td><td></td></tr><tr><td>Sigma-Theta</td><td>AM-2 & AM-4</td><td>Degrees</td><td></td></tr><tr><td>Solar radiation</td><td>AM-4</td><td>Watts/m²</td><td></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	m m	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/m ²		Relative humidity	AM-4	%	1 hour	Recording of meteorological parameters was interrupted during 2015. The meteorological station was not operational for a period of 118 days due to a serious fault with some components that resulted in the solar battery continually losing charge shutting down the station. The faulty components were eventually identified and replaced in October 2015 remedying the fault.	<p>As noted in the Audit Report, this non-compliance was the result of technical failure of the meteorological station for a brief period during August and September 2015 when the meteorological station was out of service and includes the time required to resolve the technical issue with the monitor and to obtain the necessary parts to undertake the required repairs. Meteorological monitoring requirements were satisfied for the rest of the audit period.</p> <p>Metromix will continue to manage meteorological monitoring to ensure that any downtime is limited as much as practically possible in the event of any equipment malfunction in the future.</p>	<p>Weather monitoring data was not available for the period 28/07/18 to 10/08/18 due to weather station breakdown.</p> <p>Remains open.</p>
Parameter	Method	Unit of Measure	Averaging Period	Frequency																																						
Rainfall	AM-4	m m	1 hour	Continuous																																						
Wind Direction @10m	AM-2 & AM-4	Degrees	15 mins																																							
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Temp @ 2m	AM-4	Degrees Celsius																																								
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Solar radiation	AM-4	Watts/m ²																																								
Relative humidity	AM-4	%	1 hour																																							

Issue No.	Condition	Requirement	Issue sighted	Metromix Response	Status
EPL 0536 R3 Written Report	EPL 0536 condition R3.5	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 period. The report must be submitted with the Annual Return. The report must be prepared by a suitably qualified person and include: 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 exceedances.	An annual air quality monitoring report and an assessment of the monitoring against limits as specified within the Environment Protection Licence has been reported in the Annual Review (project Approval 10_0183 Schedule 5 condition 4) for January to December each year. The Annual Reviews and monitoring data is available on the Metromix website. Metromix have not submitted a separate report with the EPL Annual Return for the EPL reporting period (i.e. 1 June 2014 to 31 May 2015).	Dedicated dust monitoring reports reviewing compliance with Quarry operations with the air quality-related conditions of EPL 536 were overlooked during the audit period. This was caused by the similarity of this requirement to the Annual Review information required under PA 10_0183. As the requirement was not included in the Annual Return template supplied by the EPA, the EPA did not seek this report at the time the Annual Returns were submitted and as it was not raised in the various discussions that Metromix personnel had with EPA officers during the audit period, Metromix assumed it was not in error and therefore failed to commission the nominated report. A Dust and Blast Monitoring Report was submitted with the Annual Return to the EPA in June 2017. Air quality management is also assessed in a similar manner to this conditional requirement each year in the Annual Review for the Quarry.	Dust and Blast monitoring reports have been submitted with the Annual Return for the period covered by this audit. Closed
	EPL 0536 condition R4.2	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: 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 exceedances of the limits contained in the Noise Limits table.	The noise monitoring was conducted twice in 2016 August and November). The reports were attached to the Annual Review submitted in accordance with Project Approval 10_0183 Schedule 5 condition 3. The Noise Assessment Compliance Reports were not submitted directly to the EPA within 30 days of completion.	Non-compliance with the frequency of compliance noise monitoring was addressed in Section 2.1.2. However, Metromix further acknowledges that submission of the noise compliance monitoring reports to the EPA was overlooked during the audit period. This has been rectified and all future noise compliance monitoring report will be submitted to the EPA within 30 days of completion.	Noise Assessment Compliance Reports were not submitted directly to the EPA within 30 days of completion for monitoring conducted in 2019. Remains Open.

Issue No.	Condition	Requirement	Issue sighted	Metromix Response	Status
	EPL 0536 condition 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.</p> <p>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 exceedances of the limits specified within this licence. 	<p>An annual blast monitoring report and an assessment of the monitoring against limits as specified within the Environment Protection Licence has been reported in the Annual Review for January to December each year. The Annual Reviews and monitoring data is available on the Metromix website.</p> <p>Metromix have not submitted a separate report with the EPL Annual Return for the EPL reporting period (i.e. 1 June 2014 to 31 May 2015).</p>	<p>Similar to the response to Section 2.2.5, dedicated blast monitoring reports reviewing compliance with Quarry operations with the air quality-related conditions of EPL 536 were overlooked during the reporting period. A Dust and Blast Monitoring Report was submitted with the Annual Return to the EPA in June 2017.</p>	<p>Dust and Blast monitoring reports have been submitted with the Annual Return for the period covered by this audit.</p> <p>Closed</p>

Appendix B. – Auditor Approval



Mr Mo Yunusa
Quarry Manager
Metromix Pty Ltd
Rhondra Road
TERALBA NSW 2284

Contact: James Epstein
Phone: 02 8575 3419
Email: compliance@planning.nsw.gov.au
Our Ref: PA 10_0183

Dear Mr Yunusa

Teralba Quarry – Independent Environmental Audit 2020

Reference is made to correspondence from Metromix Pty Ltd (Metromix) dated 15 January 2020 seeking approval of the audit team for the upcoming Independent Environmental Audit (IEA) required by Schedule 5 Condition 9 of Project Approval 10_0183 (the Approval) for the Teralba Quarry.

The Secretary has considered Metromix's request and approves the following audit team for the 2020 IEA:

- James Hart – Lead Auditor
- Annabelle Tungol – Support Auditor

The IEA is to be conducted in accordance with the conditions of the approval, and the Department's Independent Audit – Post Approval Requirements (June 2018) which can be found at the following link:

<https://www.planning.nsw.gov.au/-/media/Files/DPE/Other/independent-audit-post-approval-requirements-2018-06.pdf>

In accordance with Schedule 5, Condition 9 of the Approval, the Secretary requires that in undertaking the IEA, the auditor:

- Consult with the following agencies prior to the IEA site inspection, with all matters raised to be clearly tabulated and addressed in the IEA report:
 - Department of Planning, Industry and Environment – Compliance;
 - Department of Planning, Industry and Environment – Biodiversity and Conservation Division (formerly the Office of Environment and Heritage);
 - Environmental Protection Authority;
 - Natural Resource Access Regulator;
 - Lake Macquarie City Council; and
 - Teralba Quarry Community Consultative Committee.
- Only use the compliance status descriptors "compliant", "non-compliant" or "not triggered". The terms "partial compliance", "partial non-compliance", "not verified" or other similar terms are not to be used; and
- Recommends actions to address each non-compliance identified and any additional opportunities for improvement.

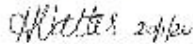
The Department refers to correspondence dated 17 January 2018 addressed to Mr W Sanderson in response to the Teralba Quarry 2017 IEA. Item 1 requires that the 2020 IEA include January and February 2017 in the scope of the audit. The Department notes that January 2017 is not currently included in the scope. Please ensure that this timeframe is captured in the 2020 IEA.



Further, Schedule 5 Condition 10 of the Approval requires that the IEA, along with any Responses to Recommendations (RAR), be submitted to the Secretary within three months of commissioning the audit. Please note that the RAR must include target dates (DD/MM/YYYY) for implementation.

Should you need to discuss the above, please contact James Epstein on (02) 6575 3419.

Yours sincerely,



Heidi Watters
Team Leader Northern
Compliance, Planning & Assessments

Appendix C. – Audit Tables

AUDIT CHECKLIST: Conditions of Approval			
Project: AQ1266	Company: Metromix – Teralba Quarry	Date: 3-4 February 2020	

6 Audit Checklist –Development Consent SSD 10-0183

AQUAS Ref No	Cond. No.	Condition	Finding and Recommendations	Compliance rating	Assessment 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	01

AUDIT CHECKLIST: Conditions of Approval			
Project: AQ1266	Company: Metromix – Teralba Quarry	Date: 3-4 February 2020	

AQUAS Ref No	Cond. No.	Condition	Finding and Recommendations	Compliance rating	Assessment 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 DPI&E for comment and approval.</p> <p>No written directions have been received.</p>	Compliant	

AUDIT CHECKLIST: Conditions of Approval			
Project: AQ1266	Company: Metromix – Teralba Quarry	Date: 3-4 February 2020	

AQUAS Ref No	Cond. No.	Condition	Finding and Recommendations	Compliance rating	Assessment 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. 	<p>Management plans have been amended to address DPI&E comments.</p>	Compliant	
COMPLIANCE					
7.	4B	<p>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.</p>	<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 2020.</p> <p>Rehabilitation has been progressively undertaken.</p>	Compliant	

AUDIT CHECKLIST: Conditions of Approval			
Project: AQ1266	Company: Metromix – Teralba Quarry	Date: 3-4 February 2020	

AQUAS Ref No	Cond. No.	Condition	Finding and Recommendations	Compliance rating	Assessment 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>	Current extraction depth – Propeller aero used to map site.	Compliant	
10.	7.	The Proponent must not extract more than 1.2 million tonnes of extractive materials from the site in any calendar year.	2019 – 605,000T (Approx.) 2018 – 615,000T 2017 - 807,000T	Compliant	
11.	8.	Extractive Material Transport The Proponent must not: <ul style="list-style-type: none"> (f) transport more than 1 million tonnes of quarry products from the site in any calendar year; or (g) dispatch more than 326 laden trucks from the site on any day; or (h) dispatch more than 241 laden trucks per day or 20 per hour westwards along Rhondda Road; (i) dispatch more than 85 laden trucks per day or 8 per hour eastwards through Teralba; (j) dispatch laden trucks for travel through Teralba between 6 pm and 6 am; or (k) receive unladen trucks via the railway street entrance between 6 pm and 7 am. 	2017 sales – 608 390t 2018 sales – 471 894t 2019 sales – ~550,000t Records show no exceedance of truck movement limits for 2017, 2018 and 2019.	Compliant	

AUDIT CHECKLIST: Conditions of Approval			
Project: AQ1266	Company: Metromix – Teralba Quarry	Date: 3-4 February 2020	

AQUAS Ref No	Cond. No.	Condition	Finding and Recommendations	Compliance rating	Assessment Issue #										
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><i>Dispatch Period</i></th><th><i>Maximum Hourly Dispatch Rate</i></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: Dispatch times and maximum hourly rates westwards along Rhondda Road or eastwards through Teralba are further limited by condition 8 above.</i></p>	<i>Dispatch Period</i>	<i>Maximum Hourly Dispatch Rate</i>	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	<p>Records of truck movements from the site maintained. 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 2017, 2018 and 2019.</p>	Compliant	
<i>Dispatch Period</i>	<i>Maximum Hourly Dispatch Rate</i>														
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>	<p>No recycled concrete stored on site (concrete stored on pug mill site, which is not covered by this consent).</p> <p>No VENM and ENM has been imported to site.</p>	Compliant											
14.	11.	<p>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.</p>	<p>2019 – Nil imported</p> <p>2018 – Nil imported</p> <p>2017 — Nil imported</p>	Compliant											

SURRENDER OF CONSENTS

AUDIT CHECKLIST: Conditions of Approval			
Project: AQ1266	Company: Metromix – Teralba Quarry	Date: 3-4 February 2020	

AQUAS Ref No	Cond. No.	Condition	Finding and Recommendations	Compliance rating	Assessment Issue #
15.	12.	<p>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.</p> <p><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></p>	<p>Consent DA 130/42 was surrendered on 31 December 2013.</p> <p>Verified previous audit.</p>	Compliant	
STRUCTURAL ADEQUACY					
16.	13.	<p>The Proponent must ensure that any new buildings and structures, and any alterations, or additions to existing buildings and structures, are constructed:</p> <ul style="list-style-type: none"> (a) in accordance with the relevant requirements of the BCA; and (b) to the satisfaction of the Subsidence Advisory NSW. <p><i>Notes:</i></p> <ul style="list-style-type: none"> • <i>Under Part 4A of the EP&A Act, the Proponent is required to obtain construction and occupation certificates for the proposed building works.</i> • <i>Part 8 of the EP&A Regulation sets out the requirements for the certification of the project.</i> • <i>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.</i> 	<p>No new buildings or structures have been constructed since the previous audit.</p> <p>Approval for relocation of the power lines has been obtained from Subsidence Advisory NSW.</p>	Not Triggered	
DEMOLITION					
17.	14.	<p>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.</p>	<p>No demolition has been undertaken since the previous audit.</p>	Not Triggered	

AUDIT CHECKLIST: Conditions of Approval			
Project: AQ1266	Company: Metromix – Teralba Quarry	Date: 3-4 February 2020	

AQUAS Ref No	Cond. No.	Condition	Finding and Recommendations	Compliance rating	Assessment Issue #
PROTECTION OF PUBLIC INFRASTRUCTURE					
18.	15.	<p>The Proponent must:</p> <ul style="list-style-type: none"> (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. 	<p>Approval for relocation of powerlines has been obtained from Ausgrid.</p> <p>Metromix have committed to paying the cost of the relocation.</p>	Not Triggered	
PLANNING AGREEMENT					
19.	16.	<p>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.</p> <p>The agreement must include provision for those matters set out in condition 17 below.</p> <p>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.</p>	<p>Planning Agreement with Council for the payment of the 0.066/t/km plus GST was signed on 6 February 2017.</p> <p>Current rate 0.0765c/t/km.</p> <p>Records available to verify payment of levy e.g. Sighted Remittance advice for payment January to June 2019, dated 26/07/19.</p>	Compliant	
ROAD MAINTENANCE					
20.	17.	<p>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:</p> <ul style="list-style-type: none"> (a) based on weighbridge records of the quantity of quarry products transported from the site; (b) paid by the date required by the invoice issued by Council; and (c) increased over the life of the project in accordance with the CPI. 	<p>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.</p> <p>Current rate – 0.0765c/t/km.</p>	Compliant	

AUDIT CHECKLIST: Conditions of Approval			
Project: AQ1266	Company: Metromix – Teralba Quarry	Date: 3-4 February 2020	

AQUAS Ref No	Cond. No.	Condition	Finding and Recommendations	Compliance rating	Assessment Issue #
OPERATION OF PLANT AND EQUIPMENT					
21.	18.	<p>The Proponent must ensure that all plant and equipment used at the site is:</p> <ul style="list-style-type: none"> (a) maintained in a proper and efficient condition; and (b) operated in a proper and efficient manner. 	<p>Records of maintenance of plant and equipment available.</p> <p>Metromix use MEX for managing plant maintenance and servicing.</p> <p>Records reviewed for Front End Loader WL002, Excavator EX001.</p> <p>Prestart inspections completed</p> <p>WL002 – Service 1/10/19 (24813 hours)- 250 hr services</p> <p>24/06/19 – 12 month fire suppression inspection and servicing.</p>	Compliant	
STAGED SUBMISSION OF ANY STRATEGY, PLAN OR PROGRAM					
22.	19.	<p>With the approval of the Secretary, the Proponent may submit any strategy, plan or program required by this approval on a progressive basis.</p> <p>Notes:</p> <ul style="list-style-type: none"> • <i>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</i> • <i>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.</i> 	<p>All management plans have been prepared and approved by DP&I/DP&E.</p>	Compliant	

AUDIT CHECKLIST: Conditions of Approval			
Project: AQ1266	Company: Metromix – Teralba Quarry	Date: 3-4 February 2020	

AQUAS Ref No	Cond. No.	Condition	Finding and Recommendations	Compliance rating	Assessment Issue #
PRODUCTION DATA					
23.	20.	The Proponent must: (a) provide annual quarry production data to DRG using the standard form for that purpose; and (b) include a copy of this data in the Annual Review (see condition 4 of Schedule 5).	Included as appendix 2 of Annual reviews. e.g. 2018-2019 –submitted 2/10/19 2016-2017 – submitted 9/10/17	Compliant	

AUDIT CHECKLIST: Conditions of Approval			
Project: AQ1266	Company: Metromix – Teralba Quarry	Date: 3-4 February 2020	

AQUAS Ref No	Cond. No.	Condition	Finding and Recommendations	Compliance rating	Assessment 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>	<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>	<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									
EXTRACTION MANAGEMENT													
26.	3.	<p>Operating Conditions</p> <p>The Proponent must ensure that:</p> <p>(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</p> <p>(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.</p>	<p>Lower Level Extraction Plan includes management measures implemented to ensure negligible risk.</p> <p>Practical Application of Stand-off Distances:</p> <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></table>	Area	Stand-off Distance	No underground workings	Negligible risk, no stand-off distance	First workings only	12 metres	Pillar extraction only	12 metres	Compliant	
Area	Stand-off Distance												
No underground workings	Negligible risk, no stand-off distance												
First workings only	12 metres												
Pillar extraction only	12 metres												

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			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: <ul style="list-style-type: none">(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;(b) be prepared by suitably qualified persons approved by the Secretary;(c) provide for the achievement of the measures set out in condition 3 above;(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;(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	Lower Level Extraction Management Plan, TER SHE 4.8 – 012, September 2016 prepared. Approved by DP&E on 23 November 2016. Verified previous audit.		Compliant		

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		<ul style="list-style-type: none"> includes appropriate short and long term contingency plans. <p>The Proponent must implement the plan as approved by the Secretary.</p>																																												
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 border="1"> <thead> <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> </thead> <tbody> <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> </tbody> </table> <p>Notes:</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>No exceedances of noise criteria have been recorded.</p> <p>No noise complaints have been received as a result of quarry activities (noise complaint regarding truck brake noise)</p>	Compliant	
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>Hours of operation of the Teralba Quarry activities are in accordance with the limits in Project Approval Schedule 3 condition 6.</p>	Compliant																																										

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AQUAS Ref No	Cond. No.	Condition	Finding and Recommendations	Compliance rating	Assessme nt 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			
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.	<p>Operating Conditions</p> <p>The Proponent must:</p> <ul style="list-style-type: none">(a) implement best practice noise management to minimise the construction, operational and traffic noise of the project;(b) minimise the noise impacts of the project during meteorological conditions when the noise limits in this approval do not apply;(c) maintain the effectiveness of any noise suppression equipment on plant at all times and ensure defective plant is not used operationally until fully repaired;(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 <p>to the satisfaction of the Secretary.</p>	<p>The Noise Management Plan section 8 outlines control measures to be implemented and describes the noise management practices to be implemented on the site:</p> <ul style="list-style-type: none">(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);(b) Section 8.5 addresses operational noise management under adverse weather conditions;c) Section 8.3 addresses effectiveness of noise suppression equipment on plant and maintenance to ensure defective plant is not operated until it is fully repaired.(d) Section 9 outlines Evaluation of Compliance. <p>No noise emission exceedances or complaints have been received.</p>	Compliant																	
31.	8.	<p>Noise Management Plan</p> <p>The Proponent must prepare a Noise Management Plan for the project to the satisfaction of the Secretary. This plan must:</p> <ul style="list-style-type: none">(a) be submitted for approval to the Secretary within 4 months of the date of this approval;	<p>Noise Management Plan Rev 02, 9/08/2018 available. Approved by DPI&E 2/10/2018.</p> <p>Contents verified previous audit.</p>	Compliant																	

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AQUAS Ref No	Cond. No.	Condition	Finding and Recommendations	Compliance rating	Assessment Issue #																					
		<p>(b) describe the measures that would be implemented to ensure:</p> <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; andcompliance with the relevant conditions of this approval; <p>(c) describe the proposed noise management system in detail;</p> <p>(d) include a monitoring program that:</p> <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; andevaluates and reports on the effectiveness of the noise management system on site. <p>The Proponent must implement the plan as approved by the Secretary.</p>																								
BLASTING																										
32.	9.	<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><i>Table 4: Blasting criteria</i></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</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	<table><tr><th>Year</th><th>Total No. of Blasts</th><th>No. of Exceedances of criteria</th></tr><tr><td>1 Jan 2017 to 31 Dec 2017</td><td>36</td><td>0</td></tr><tr><td>1 Jan 2018 to 31 Dec 2018</td><td>18</td><td>0</td></tr></table>	Year	Total No. of Blasts	No. of Exceedances of criteria	1 Jan 2017 to 31 Dec 2017	36	0	1 Jan 2018 to 31 Dec 2018	18	0	Compliant	
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																							
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		provider/owner, and the Proponent has advised the Department in writing of the terms of this agreement.	1 Jan 2019 to 31 Dec 2019	18	0		
			Blast monitoring conducted at locations 1 and 2. Airblast overpressure and ground vibration were not measured at Location 3 throughout 2017 as no blasting was undertaken north of Rhondda Road during the reporting period.				
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.	Records of blast monitoring maintained by the blasting contractor (Orica) in BlastIQ. Records show that blasting had occurred between 10 am and 4 pm Monday to Friday.			Compliant	
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>	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 	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	

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		<ul style="list-style-type: none"> 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. 			
36.	13.	<p>Property Investigations</p> <p>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:</p> <ul style="list-style-type: none"> (c) commission a suitably qualified, experienced and independent person, whose appointment is acceptable to both parties, to investigate the claim; and (d) give the landowner a copy of the property investigation report. <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>	<p>No blasting has occurred within 500m of any buildings and/or structures on privately owned land.</p> <p>No requests have been received from property owners.</p>	Not Triggered	
37.	14.	<p>Operating Conditions</p> <p>During blasting operations, the Proponent must:</p> <ul style="list-style-type: none"> (a) implement best management practice to: <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 (b) operate a suitable system to enable the public to get up-to-date information on the proposed blasting schedule on site, 	<p>Blasting has occurred in accordance with the approved Blast Management Plan, which includes:</p> <ul style="list-style-type: none"> (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; (b) section 14 addresses Publication of Blast Information on the Metromix website and monitoring results will also be presented at CCC Meetings. 	Compliant	

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		to the satisfaction of the Secretary.	No exceedance of blasting criteria or complaints have been received in relation to blasting.		
38.	15.	<p>The Proponent must not undertake blasting within 500 metres of:</p> <ul style="list-style-type: none"> (a) any public road without the approval of Council; or (b) any land outside the site not owned by the Proponent, unless: <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 advised the Department in writing of the terms of this agreement, or • 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>No blasting has occurred within 500m of public road during the period 1 January 2017 to 31 December 2019.</p> <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>	Compliant	
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> <ul style="list-style-type: none"> (a) be submitted to the Secretary for approval within 4 months from the date of project approval; (b) be prepared in consultation with the Council and interested members of the local community potentially affected by blasting operations; describe the measures that would be implemented to ensure: <ul style="list-style-type: none"> • best management practice is being employed; and • compliance with the relevant conditions of this approval; 	<p>A Blast Management Plan was prepared to satisfy Project Approval Schedule 3 condition 16 and submitted to DP&I on 6 September 2013.</p> <p>Blast Management Plan updated 20 June 2016 and resubmitted for approval.</p> <p>Blast Management Plan updated 10.01.2020 and submitted to DPI&E for review.</p>	Compliant	

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		<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>(d) include a specific blast fume management protocol to demonstrate how emissions will be minimised including risk management strategies if blast fumes are generated; and</p> <p>(e) include a monitoring program for evaluating the performance of the project including:</p> <ul style="list-style-type: none">compliance with the applicable criteria; andminimising fume emissions from the site. <p>The Proponent must implement the plan as approved by the Secretary.</p>																		
AIR QUALITY																				
40.	17.	<p>Air Quality Criteria</p> <p>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.</p> <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>	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	<p>Air Quality Management Plan prepared and implemented.</p> <p>Section 8 presents potential dust sources and key control procedures and measures adopted for the management of particulate matter emissions generated by the project, to ensure dust emissions from the Teralba Quarry activities do not exceed the criteria in Tables 5 to 7 at any residence on privately-owned land.</p> <p>Air Quality Monitoring program included in section 9 of the Air Quality Management Plan includes:</p> <ul style="list-style-type: none">Five (5) dust deposition gauges are located to<ul style="list-style-type: none">the east of the Teralba Quarry and on the outskirts of Teralba;Hillside Crescent (established June 2004)Myrtle Street (established June 2004)Rhondda Road (established June 2004)Rodgers Street (established April 2011)	Compliant	
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																		

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		<p>Table 7: Long-Term Impact Assessment Criteria for Deposited Dust</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>Notes to Tables 5-7:</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	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	<ul style="list-style-type: none">➤ Teralba Public School- Established January 2019 (replaced Margaret Street gauge established April 2011)• A High Volume Air Sampler (HVAS) for PM₁₀ was installed in 2014 in accordance with the Environment Protection Licence 0536 condition P1.1 at the approved EPA Identification Point No. 3 and AS/NZS 3580.• Results of monitoring <p>No exceedance of the annual rolling average has been recorded.</p> <p>Several exceedances of PM₁₀ criteria have been reported. However, exceedances have been as the result of external influences. No exceedances as a result of quarry activities.</p> <p>e.g. Email 14/01/20 – Dust (PM₁₀) exceedances on 4/12, 10/12, 16/12, and 22/12/19 as a result of bushfires.</p> <p>Email 16/12/19 – total insoluble solids exceedance on 2/12/19 - as a result of excavator used by landowner in close proximity to the gauge.</p> <p>Email 14/03/19 – PM₁₀ exceedance as a result of bushfire near the quarry.</p>		
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.	<p>Greenhouse Gas Emissions</p> <p>The Proponent must implement all reasonable and feasible measures to minimise the release of greenhouse gas emissions from the site.</p>	<p>The following actions had been implemented for minimising GHG emissions:</p> <ul style="list-style-type: none">• Minimising diesel consumption• Reducing truck idling time• Maintaining optimal tyre pressure• Optimising haul routes• Optimising electricity usage	Compliant									

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42.	19.	Operating Conditions The Proponent must: <ul style="list-style-type: none"> (f) implement best management practice to minimise the dust emissions of the project; (g) 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, (h) minimise the air quality impacts of the project during adverse meteorological conditions and extraordinary events (see Note d to Tables 5-7 above); (i) minimise any visible off-site air pollution; (j) minimise surface disturbance of the site and undertake progressive rehabilitation of the site; and (k) monitor and report on compliance with the relevant air quality conditions in this approval, to the satisfaction of the Secretary. 	<p>Reported that the quarry manager monitors wind and dust conditions.</p> <p>Sighted records verifying ceasing of production due to environmental conditions.</p> <p>EPL04 moved to Teralba Primary School in January 2019. Hence no result for January 2019.</p> <p>Email correspondence to DPI&E 18/01/19 informing the Department of the non-compliance.</p> <p>Response from Department 23/01/19.</p> <p>Recommendation:</p> <p>The Dust gauge has been relocated to an alternative location in January 2019. No further action required.</p>	Not Compliant	02
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: <ul style="list-style-type: none"> (a) be prepared in consultation with Council, and submitted for approval to the Secretary within 4 months of the date of this approval; (b) describes the measures that would be implemented to ensure: <ul style="list-style-type: none"> • best management practice is employed; • the air quality impacts of the project are minimised during adverse meteorological conditions and extraordinary events; and • compliance with the relevant conditions of this approval; (c) describes the proposed air quality management system; and (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; 	<p>The Air Quality Management Plan was prepared to satisfy this Project Approval condition and was approved by DP&I on 10 October 2013.</p> <p>The plan was updated (Rev 6, 9 December 2019) and approved by DPI&E 12 December 2019.</p>	Compliant	

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		<ul style="list-style-type: none"> adequately supports the air quality management system; and evaluates and reports on the adequacy of the air quality management system. <p>The Proponent must implement the plan as approved by the Secretary.</p>			
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. 	<p>Meteorological monitoring station compliant with EPL 0536 Condition M5 is located in a satisfactory location on the Northern Extension Area and measures wind speed and direction, temperature, rainfall and relative humidity. The station results are relayed to the computer system in the Teralba Quarry office and is available for on site management of activities.</p> <p>Weather monitoring data was not available for the period 28/07/18 to 10/08/18 due to weather station breakdown.</p> <p>Recommendation: The weather station has been repaired (10/08/18) and monitoring has continued. No further action required.</p>	Not Compliant	03
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 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>	Metromix holds a Water Access Licence No. 40303 for 1407ML/annum for water pumped from Dam A (Groundwater dewatering).	Compliant	

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AQUAS Ref No	Cond. No.	Condition	Finding and Recommendations	Compliance rating	Assessment Issue #
46.	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.	Surface water monitoring conducted in accordance with EPL 0536. Surface water discharge from Dam B during very high rainfall events. No non-compliances have been recorded with EPL water discharge conditions have been recorded. Noted that one TSS result for the mine adit dam overflow of 105mg/L was recorded. However, water in this dam is a result of groundwater recharge and not connected to the quarry surface water management system.	Compliant	
47.	24.	On-Site Sewage Management The Proponent must manage on-site sewage to the satisfaction of Council and the EPA.	Pump-out sewage system installed. Removed by contractor on a regular basis.	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>. 	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.	Water Management Plan was updated and resubmitted to DP&E and approved on 2 October 2018. Consultation with DoI Water and Council was not deemed necessary as changes to the document were minor in nature (confirmed in correspondence from DPE dated 18 July 2018).	Compliant	

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AQUAS Ref No	Cond. No.	Condition	Finding and Recommendations	Compliance rating	Assessment Issue #
		<p>In addition to the standard requirements for management plans (see condition 3 of Schedule 5), this plan must include a:</p> <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; <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; 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 			

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		<ul style="list-style-type: none"> 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 (c) Groundwater Management Plan, that includes: <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; <p><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></p> <p>The Proponent must implement the plan as approved by the Secretary.</p>			

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AQUAS Ref No	Cond. No.	Condition	Finding and Recommendations	Compliance rating	Assessment Issue #
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.	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.	Compliant	
51.	28.	The Proponent must ensure that the: <ul style="list-style-type: none"> (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. 	(a) 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. (b) Regeneration of the silt placement area and benches in Stage 1B has been undertaken.	Compliant	
52.	29.	Operating Conditions The Proponent must <ul style="list-style-type: none"> (a) implement all reasonable and feasible measures to minimise the visual impacts and any off-site lighting impacts of the project; and (b) maintain and improve the effectiveness of the vegetated plantings on the quarry benches, over the life of the project. 	(a) Visual impacts of the quarry operations have been minimised for the Southern Extension Area works and there are no offsite lighting impacts from the current works; (b) Revegetation of the completed areas of the Teralba Quarry appear consistent with the surrounding vegetation communities and tree canopy. Monitoring of visual impacts was included in the Annual review.	Compliant	


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AQUAS Ref No	Cond. No.	Condition	Finding and Recommendations	Compliance rating	Assessment Issue #
53.	30.	Advertising Signage The Proponent must not erect or display any advertising structure(s) or signs on the site without the written approval of the Secretary. <i>Note: This condition does not require approval for any business identification, traffic management, and/or safety or environmental signs.</i>	No advertising signage or structures have been erected on the Teralba Quarry site Signs erected at the entrance to the Teralba Quarry site are only related to the company identification, safety and environment requirements and traffic signs.	Compliant	
TRANSPORT					
54.	31.	Intersection Investigation and Wheel Wash Within 6 months of the date of this approval the Proponent must: <ul style="list-style-type: none"> (c) 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; (d) submit the report and any recommendations to the Secretary for approval; and (e) implement any recommendations of the road safety audit to upgrade the intersection of York Street and Anzac Parade to the satisfaction of Council. 	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 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.	Wheel wash facilities are installed at the quarry exits to Railway Street and Rhondda Road to ensure truck tyres and 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.	Compliant	
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	

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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 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.	On-site speed limits signposted (5-30km/hr). Resources Regulator audit conducted WE 31/01/20 which assessed transport movements. 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.	Managed through control of truck movements eastwards. Records of truck movements show that vehicle movements were consistent with the approval conditions.	Compliant	
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.	No trucks movements have occurred between 6pm and 6am.	Not triggered	
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.	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	(a) 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.	Compliant	

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		<ul style="list-style-type: none"> 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. 	<p>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.</p> <p>(b) Truck movements recorded are placed on the Metromix website at least quarterly.</p>		
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.	<p>Trucks entering" warning signs have been erected 200 metres either side of the quarry entrance to Rhonnda Road.</p> <p>Verified during site inspection.</p> 	Compliant	
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.	<p>Verified previous audit.</p> <p>Parking areas provided for light and heavy vehicles.</p>	Compliant	
67.	44.	Transport Management Plan The Proponent must prepare a Transport Management Plan for the project to the Secretary. This plan must: <ul style="list-style-type: none"> (a) be prepared by a suitably qualified traffic consultant in consultation with the RMS and Council, and submitted to 	<p>The Traffic Management Plan to satisfy Project Approval 10_0183 Schedule 3 condition 44 was approved by DP&I on 10 October 2013</p> <p>Traffic Management Plan updated 9/12/2019 (Revision 5). Approved 12/12/19.</p>	Compliant	

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		<p>the Secretary for approval within 4 months of the date of this approval;</p> <p>(b) include a drivers' code of conduct for the project;</p> <p>(c) describe the measures that would be implemented to ensure:</p> <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 <p>(d) include a program to monitor the effectiveness of the implementation of these measures.</p> <p>The Proponent must implement the plan as approved by the Secretary.</p>			
BUSHFIRE MANAGEMENT					
68.	45.	<p>The Proponent must:</p> <p>(a) ensure that the project is suitably equipped to respond to any fires on site; and</p> <p>(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.</p>	<p>Bushfire Management Plan prepared which identifies resources and processes for managing bushfires.</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 30,000L tank. Water carts are kept full at all times. Fire protection zone established around structures Fire fighting equipment (extinguishers, etc) available on site. 	Compliant	
WASTE					
69.	46.	<p>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.</p>	No VENM or ENM had been imported.	Not triggered	

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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.	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.		
71.	48.	The Proponent must prepare a Waste Management Plan for the project to the satisfaction of the Secretary. This plan must: (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; (b) identify the various waste streams of the project; (c) estimate the volumes of waste material that would be generated by the project, including recycled concrete brought on-site; (d) describe and justify the proposed strategy for disposing of this waste material, including recycled concrete brought on-site; and (e) include a program to monitor the effectiveness of these measures. The Proponent must implement the plan as approved by the Secretary.	The Waste Management Plan was prepared to satisfy Project Approval 10_0183 Schedule 3 condition 48 and approved by DP&I on 10 Oct 2013. Waste Management Plan updated (Revision 3, 9/12/2019) which was approved by DPI&E on 12/12/19.	Compliant	
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: (a) be prepared in consultation with Aboriginal stakeholders; (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; (c) describe the measures that would be implemented for:	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. Heritage Management Plan updated (Version 3, 11/09/2019) and approved by DPI&E on 6/12/2019.	Compliant	

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		<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 ensuring ongoing consultation with Aboriginal stakeholders in the conservation and management of any Aboriginal cultural heritage values on site. <p>The Proponent must implement the plan as approved by the Secretary.</p>			
73.	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>	<p>Two artefacts found during a field survey with members of Aboriginal stakeholder groups and Austral Archaeology prior to clearing works for Stage 2.</p> <p>No artefacts have been identified during works on site.</p>	Not triggered	
BIODIVERSITY AND REHABILITATION					
74.	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>Nesting boxes were installed in late 2014.</p> <p>Monitoring records sighted and included in the annual report.</p> <p>Monitoring conducted annually in November.</p> <p>2019 – Nest Box Monitoring Report sighted – Completed by ECHO Ecology and Surveying.</p>	Compliant	
75.	51.	<p>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.</p>	<p>Stage 2 clearance conducted 2019.</p> <p>The next boxes provided (see condition 50) were provided to offset hollow bearing trees removed during this clearing.</p>	Compliant	

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76.	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.	Sighted Email 22/12/18 from OEH verifying Biodiversity credits (Stage 1 and 2 credits) had been retired. Stage 3 not commenced.	Compliant										
77.	53.	The Proponent must prepare and submit a Biodiversity Offset Strategy to the satisfaction of the Secretary. This strategy must: <ul style="list-style-type: none">(a) be submitted for approval by the Secretary prior to 30 June 2018, or as otherwise agreed by the Secretary; and(b) be prepared in accordance with the Biodiversity Conservation Act 2016; and(c) provide for the retirement of biodiversity credits as specified in conditions 54 to 56 of this schedule. The Proponent must implement the Biodiversity Offset Strategy to the satisfaction of the Secretary and OEH.	Biodiversity Offset Strategy prepared and included in the Biodiversity and Rehabilitation Management Plan. 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										
78.	54.	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. <i>Table 8: Biodiversity Credits to be retired by 31 December 2018</i> <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>Tetratheca 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>Tetratheca juncea</i>)	1103	Sighted Email 22/12/18 from OEH verifying Biodiversity credits (Stage 1 and 2 credits) had been retired.	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>Tetratheca juncea</i>)	1103												
79.	55.	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. <i>Table 8a: Biodiversity credits to be retired prior to vegetation clearing in Southern Extension Stage 3</i>	Stage 3 not commenced.	Not Triggered										


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AQUAS Ref No	Cond. No.	Condition	Finding and Recommendations	Compliance rating	Assessment Issue #						
		<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			
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									
80.	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									
81.	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-term protection of any land identified in the Strategy, to the satisfaction of the Secretary.</p>	The strategy does not include land based offsets	Not triggered							
82.	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>	<p>Progressive rehabilitation had been conducted.</p> <p>During the site inspection, areas rehabilitated during 2017, 2018 and 2019 were inspected. It was noted that rehabilitation using coarse woody debris on rehabilitated silt cells and tubestock planting has been successful.</p>	Compliant							

AUDIT CHECKLIST: Conditions of Approval			
Project: AQ1266	Company: Metromix – Teralba Quarry	Date: 3-4 February 2020	

AQUAS Ref No	Cond. No.	Condition		Finding and Recommendations	Compliance rating	Assessment Issue #											
		<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			
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AUDIT CHECKLIST: Conditions of Approval			
Project: AQ1266	Company: Metromix – Teralba Quarry	Date: 3-4 February 2020	

AQUAS Ref No	Cond. No.	Condition	Finding and Recommendations	Compliance rating	Assessment Issue #
83.	59.	Progressive Rehabilitation 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 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>	During the site inspection, areas rehabilitated during 2017, 2018 and 2019 were inspected, with rehabilitated areas showing good coverage. 	Compliant	
84.	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: <ul style="list-style-type: none"> (a) be prepared by a suitably qualified expert and in consultation with DRG, DPI and Council; (b) be submitted to the Secretary for approval within 12 months of the date of approval of Modification 1; (c) provide details of the conceptual final landform and associated land uses for the site; describe how the implementation of the Biodiversity Offset Strategy would be integrated with the overall rehabilitation of the site; (d) describe the short, medium and long-term measures that would be implemented to: <ul style="list-style-type: none"> • manage remnant vegetation and habitat on site; • implement the Biodiversity Offset Strategy; and 	Biodiversity 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. <ul style="list-style-type: none"> (a) prepared by R.W. Corkery. Draft 1 submitted to DRG, DPI&E and Council for review; (b) Draft 1 submitted 28 June 2018; (c) Details of the conceptual final landform and associated land uses for the site included in Section 2.2; (d) Short, medium and long-term measures identified in Section 6; (e) Section 9 – Rehabilitation Performance and Completion Criteria; (f) Section 6; (g) Section 8 Monitoring and Evaluation; (h) Section 5 Biodiversity and Rehabilitation Risks 	Compliant	

AUDIT CHECKLIST: Conditions of Approval			
Project: AQ1266	Company: Metromix – Teralba Quarry	Date: 3-4 February 2020	

AQUAS Ref No	Cond. No.	Condition	Finding and Recommendations	Compliance rating	Assessment Issue #
		<ul style="list-style-type: none"> ensure compliance with the rehabilitation objectives and progressive rehabilitation obligations in this approval; (e) include detailed performance and completion criteria for evaluating the performance of the Biodiversity Offset Strategy and the rehabilitation of the site (including progressive rehabilitation), including triggering remedial action (if necessary); (f) include a detailed description of the measures that would be implemented over the next 3 years, including the procedures to be implemented for: <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; (g) include a program to monitor the effectiveness of these measures, and progress against the performance and completion criteria; 	(i) Section 1.6.1 Roles and Responsibilities.		

AUDIT CHECKLIST: Conditions of Approval			
Project: AQ1266	Company: Metromix – Teralba Quarry	Date: 3-4 February 2020	

AQUAS Ref No	Cond. No.	Condition	Finding and Recommendations	Compliance rating	Assessment Issue #
		<p>(h) 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</p> <p>(i) include details of who would be responsible for monitoring, reviewing, and implementing the plan.</p> <p>The Proponent must implement the plan as approved by the Secretary.</p>			
85.	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> <p>calculating the cost of rehabilitating all disturbed areas of the site, taking into account the likely surface disturbance over the next 3 years of quarrying operations; and</p> <p>(c) employing a suitably qualified quantity surveyor or other expert to verify the calculated costs to the satisfaction of the Secretary.</p> <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>	<p>Rehabilitation Bond for the Quarry was reviewed, and the approved bond estimate lodged with the Department of Planning and Environment in October 2016.</p> <p>Updated Biodiversity and Rehabilitation Management Plan approved 18 June 2019. Revised Rehabilitation Bond due 18 December 2019. Not lodged at this stage.</p> <p>Final costing prepared and awaiting internal approval.</p> <p>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.</p>	Not Compliant	04
86.	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> <p>(a) an update or revision to the Biodiversity and Rehabilitation Management Plan;</p> <p>(b) the completion of an Independent Environmental Audit in which recommendations relating to the rehabilitation of the site have been made; or</p>		Not triggered	

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AQUAS Ref No	Cond. No.	Condition	Finding and Recommendations	Compliance rating	Assessment Issue #
		<p>(c) in response to a request by the Secretary.</p> <p>Notes:</p> <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> 			
87.	63.	<p>Relocated Powerlines</p> <p>The Proponent must ensure that any relocation of existing powerlines on-site does not cause greater than minor environmental consequences.</p>	<p>Environmental Assessment completed for relation of power lines.</p> <p>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.</p>	Compliant	

AUDIT CHECKLIST: Conditions of Approval			
Project: AQ1266	Company: Metromix – Teralba Quarry	Date: 3-4 February 2020	

AQUAS Ref No	Cond. No.	Condition	Finding and Recommendations	Compliance rating	Assessment Issue #
SCHEDULE 4 – ADDITIONAL PROCEDURES					
NOTIFICATION OF LANDOWNERS					
88.	1.	<p>As soon as practicable and no longer than 7 days after obtaining monitoring results showing an:</p> <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 (b) 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>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>	Not triggered	
INDEPENDENT REVIEW					
89.	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> <ul style="list-style-type: none"> (a) commission a suitably qualified, experienced and independent expert, whose appointment has been approved by the Secretary, to: <ul style="list-style-type: none"> • consult with the landowner to determine his/her concerns; • conduct monitoring to determine whether the 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 	No requests have been received.	Not triggered	

AUDIT CHECKLIST: Conditions of Approval			
Project: AQ1266	Company: Metromix – Teralba Quarry	Date: 3-4 February 2020	

AQUAS Ref No	Cond. No.	Condition	Finding and Recommendations	Compliance rating	Assessment Issue #
		<p>implemented to ensure compliance with the relevant criteria; and</p> <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>			
90.	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,</p> <p>to the satisfaction of the Secretary.</p>	No independent review have been required.	Not triggered	

AUDIT CHECKLIST: Conditions of Approval			
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AQUAS Ref No	Cond. No.	Condition	Finding and Recommendations	Compliance rating	Assessment Issue #
SCHEDULE 5 – ENVIRONMENTAL MANAGEMENT, REPORTING AND AUDITING					
ENVIRONMENTAL MANAGEMENT					
91.	1.	<p>Environmental Management Strategy</p> <p>The Proponent must prepare an Environmental Management Strategy for the project to the satisfaction of the Secretary. This strategy must:</p> <ul style="list-style-type: none"> (a) be submitted to the Secretary for approval with 6 months of the date of this approval; (b) provide the strategic framework for environmental management of the project; (c) identify the statutory approvals that apply to the project; (d) describe the role, responsibility, authority and accountability of all key personnel involved in the environmental management of the project; (e) describe the procedures that would be implemented to: <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 (f) include: <ul style="list-style-type: none"> • references to any strategies, plans and programs approved under the conditions of this approval; and • a clear plan depicting all the monitoring required to be carried out under the conditions of this approval. <p>The Proponent must implement the strategy as approved by the Secretary.</p>	<p>An Environmental Management Strategy was prepared to satisfy Project Approval Schedule 5 condition 1 and approved by DP&I on 16 January 2014.</p> <p>Environmental Management Strategy updated (Revision 3, 20/12/2018) and approved by DPI&E 25/01/2019.</p>	Compliant	

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AQUAS Ref No	Cond. No.	Condition	Finding and Recommendations	Compliance rating	Assessment Issue #
92.	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> <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, <p>to the satisfaction of the Secretary.</p>		Not triggered	
93.	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> <ul style="list-style-type: none"> (a) detailed baseline data; (b) a description of: <ul style="list-style-type: none"> • the relevant statutory requirements (including any relevant approval, licence or lease conditions); • any relevant limits or performance measures/criteria; and • the specific performance indicators that are proposed to be used to judge the performance of, or guide the 	<p>The Management Plans required under this Project Approval have been prepared generally in accordance with the guidelines outlined in Project Approval Schedule 5 condition 3.</p> <p>Verified previous audit.</p>	Compliant	

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		<p>implementation of, the project or any management measures;</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>(d) a program to monitor and report on the:</p> <ul style="list-style-type: none"> • impacts and environmental performance of the project; and • effectiveness of any management measures (see (c) above); <p>(e) a contingency plan to manage any unpredicted impacts and their consequences;</p> <p>(f) a program to investigate and implement ways to improve the environmental performance of the project over time;</p> <p>(g) a protocol for managing and reporting any:</p> <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 <p>(h) a protocol for periodic review of the plan.</p> <p>Note: The Secretary may waive some of these requirements if they are unnecessary or unwarranted for particular management plans.</p>			
94.	3A.	<p>Evidence of Consultation</p> <p>Where conditions of this approval require consultation with an identified party, the Proponent must:</p> <p>(a) (a) consult with the relevant party prior to submitting the subject document to the Secretary for approval; and</p> <p>(b) provide details of the consultation undertaken, including;</p>	Evidence of consultation has been included in management plans.	Compliant	

AUDIT CHECKLIST: Conditions of Approval			
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AQUAS Ref No	Cond. No.	Condition	Finding and Recommendations	Compliance rating	Assessment Issue #
		<ul style="list-style-type: none"> • the outcome of that consultation, matters resolved and unresolved; and • details of any disagreement remaining between the party consulted and the Proponent and how the Proponent has addressed any unresolved matters. <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>			
95.	4.	<p>Annual Review</p> <p>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:</p> <ul style="list-style-type: none"> (a) describe the development (including rehabilitation) that was carried out in the previous calendar year, and the development that is proposed to be carried out over the current calendar year; (b) include a comprehensive review of the monitoring results and complaints records of the project over the previous calendar year, which includes a comparison of these results against: <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) identify any non-compliance over the last year, and describe what actions were (or are being) taken to ensure compliance; (d) identify any trends in the monitoring data over the life of the project; (e) identify any discrepancies between the predicted and actual impacts of the project, and analyse the potential cause of any significant discrepancies; and 	Annual Reviews submitted within required timeframe. E.g. 2018 – submitted 29/03/19.	Compliant	

AUDIT CHECKLIST: Conditions of Approval			
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AQUAS Ref No	Cond. No.	Condition	Finding and Recommendations	Compliance rating	Assessment Issue #
		(f) describe what measures will be implemented over the current calendar year to improve the environmental performance of the project.			
96.	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>Modification to consent approved March 2018.</p> <p>Management plans submitted before June 2018 with the exception of AQMP, BMP submitted 1/11/18, TMP submitted 10/12/18, EMS submitted 20/12/18, WMP 28/03/19.</p> <p>All other plans submitted within the required timeframe.</p> <p>2019 – Management plans had been updated and were in the process of review (Council and DPI&E).</p> <p>Recommendation: Metromix should ensure that all management plans are reviewed and, where revised, submitted to the Secretary within 6 weeks of the review.</p>	Not Compliant	05
97.	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>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</p>	<p>Community Consultative Committee established.</p> <p>Meetings conducted biannually (May and October). Noted that the meeting frequency has been reduced to 1/ year (agreed at meeting October 2019).</p> <p>Meeting minutes were available on the company website.</p>	Compliant.	

AUDIT CHECKLIST: Conditions of Approval			
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AQUAS Ref No	Cond. No.	Condition	Finding and Recommendations	Compliance rating	Assessment Issue #
		from the Proponent, Council, recognised environmental groups and the local community.			
REPORTING					
98.	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.	No incidents have been recorded.	Not Triggered	
99.	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.	No incidents have been recorded.	Not Triggered	
100.	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.		Not Triggered	
INDEPENDENT ENVIRONMENTAL AUDIT					
101.	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); 	<p>Previous audit conducted February 2017. Submitted to DPI&E March 2017.</p>	Compliant	

AUDIT CHECKLIST: Conditions of Approval			
Project: AQ1266	Company: Metromix – Teralba Quarry	Date: 3-4 February 2020	

AQUAS Ref No	Cond. No.	Condition	Finding and Recommendations	Compliance rating	Assessment Issue #
		(d) review the adequacy of any approved strategy, plan or program required under the these approvals; and (e) recommend measures or actions to improve the environmental performance of the project, and/or any assessment, plan or program required under these approvals. <i>Note: This audit team must be led by a suitably qualified auditor and include experts in any fields specified by the Secretary.</i>			
102.	10.	Within 3 months of commissioning this audit, or as otherwise agreed by the Secretary, the Proponent must submit a copy of the audit report to the Secretary, together with its response to any recommendations contained in the audit report.	Conducted 22-23 February 2017. Response from DPI&E shows submitted March 2017. Response to recommendations not provided with audit report. Recommendation: Metromix should ensure that a response to recommendations contained within this report is documented and submitted to the Secretary with the audit report.	Not Compliant	06
ACCESS TO INFORMATION					
103.	11.	Within 3 months of the date of this approval, the Proponent must: (a) make the following information publicly available on its website: <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; 	Required information was available on the site website.	Compliant	

AUDIT CHECKLIST: Conditions of Approval			
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AQUAS Ref No	Cond. No.	Condition	Finding and Recommendations	Compliance rating	Assessment Issue #
		<ul style="list-style-type: none"> • 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 (b) keep this information up-to-date, to the satisfaction of the Secretary.			


AUDIT CHECKLIST: Statement of Commitments			
Project: AQ1266	Company: Metromix – Teralba Quarry	Date: 3-4 February 2020	

AQUAS Ref No	Condition No.	Desired Outcome	Action	Timing	Finding and Recommendations	Compliance rating	Assessment Issue #
APPENDIX 3 – STATEMENT OF COMMITMENTS							
1. Activities and Operations							
1.	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.	<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	
2. Operating Hours							
2.	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	
3.	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	

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4.	2.3		Undertake product transportation activities 24hrs/day between 4:00am Monday to 6:00pm Saturday.	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	
5.	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	
6.	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	
7.	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							
8.	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	
9.	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	

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10.	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	
11.	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							
12.	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 2017). Security fencing and locked gates provided.	Compliant	
13.	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	
14.	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	
15.	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	

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16.	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	
17.	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 Traffic 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							
18.	5.1		Deleted.				
19.	5.2		Deleted.				
6. Groundwater							
20.	6.1	Prevention of groundwater contamination.	Securely store all hydrocarbon products within designated and bunded areas – see Action 16.11.	Ongoing.	<p>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).</p> <p>Waste oil is placed in the covered bunded waste oil tank and the waste oil collected for recycling by Trans-Pacific.</p>	Compliant	

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21.	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	
22.	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	
23.	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	
24.	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	
25.	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	
26.	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	
27.	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	
28.	6.9		Ensure all monitoring data is incorporated into each Annual Environment Management Report for the Teralba Quarry.	Annually.	All monitoring data is appended to the Annual Review Reports for the Teralba Quarry.	Compliant	

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7. Surface Water							
29.	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	
30.	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	
31.	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	
32.	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	
33.	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	
34.	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	


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35.	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	
36.	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	
37.	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 (January 2017 to December 2019).	Compliant	
38.	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	
39.	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 daily (included in the slope stability checklist) and sediment removed as required to ensure 70% dam capacity is available. Clean out of dams has not been required during the period covered by this audit.	Compliant	

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40.	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). Waste oil is placed in the covered bunded waste oil tank and the waste oil collected for recycling by Trans-Pacific	Compliant	
41.	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	
42.	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							
43.	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	
44.	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, to ensure protection.	Compliant	

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45.	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	
46.	8.4		Retain the extracted topsoil and vegetation within the immediate area of <i>Tetratheca juncea</i> populations and relocate to easement locations.	During clearing.	Topsoil was collected and stored for reuse	Compliant	
47.	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	
48.	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	
49.	8.7		Install species specific nesting boxes for fauna species displaced following clearing activities, re 20 boxes for microbats, 20 boxes for	Prior to commencement of activities in the Northern Extension.	Verified previous audit.	Compliant	

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			Little Lorikeets and 30 boxes for Sugar Gliders.				
9. Traffic and Transport							
50.	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 January 2017 and December 2019, comply with the limits of hourly truck dispatch rates in Project Approval Schedule 2 condition 9.	Compliant	
51.	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 January 2017 and December 2019, comply with the limits of hourly truck dispatch rates in Project Approval Schedule 2 condition 9.	Compliant	
52.	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	
53.	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 – 0.0765c/t/km.	Compliant	
54.	9.5		Prepare, implement and enforce 'Drivers Code of Conduct' addressing:		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	

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			<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. 				
55.	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	
56.	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	
57.	9.8		Ensure that all project-related vehicles are regularly serviced to ensure engine efficiencies are maintained at a standard that limits truck noise.		All project-related vehicles are regularly serviced to ensure engine efficiencies are maintained at a standard that limits truck noise.	Compliant	
10. Noise and Vibration							
58.	10.1	The Project is designed to minimise and/or mitigate noise emissions received at surrounding residences and other sensitive	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	
59.	10.2		Ensure all earthmoving equipment used on site (including temporary equipment) have sound power	When new or temporary equipment is	Sound power levels of equipment were tested in 2013.	Compliant	

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		receivers.	levels and frequency spectra consistent with those nominated in Section 6 of Spectrum Acoustics (2011).	brought to site.	Replaced WA500 with a Cat 972 FEL. (smaller unit). Excavator replaced 65T replaced with 85T. No change is SWL for units		
60.	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	
61.	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	

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62.	10.5		<p>Limit transportation noise by ensuring:</p> <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>	<p>The noise attributed to trucks travelling to and from the Teralba Quarry is controlled by:</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>	Compliant	
63.	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</p> <p>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.</p> <p>Attended noise monitoring surveys have been conducted bi-annually.</p>	Compliant	

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64.	10.7		Include a summary of all noise monitoring results in the AEMR.	Annually.	Noise monitoring results are summarised in Section 6.2 of the AEMR.	Compliant	
65.	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 than 15km/hr.	Compliant	
66.	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							
67.	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	
68.	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	
69.	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	
70.	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	
71.	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	
72.	11.6		Limit internal road dust lift off by:	Ongoing.	Internal roads are maintained to reduce dust with a 30km/hr speed limit enforced on all internal roads.	Compliant	

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		<ul style="list-style-type: none"> - surfacing (and grading local) roads with appropriate materials; - 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. 		Spillage during truck loading and transport is minimised to ensure that product is not lost over truck sidewalls and all loads are covered during transport.		
73.	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	
74.	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	
75.	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	
76.	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	
77.	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	

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78.	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	
79.	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	
80.	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	
81.	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	
82.	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	Compliant	

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					shortest distance and grade for haul truck travel.		
83.	11.17		<p>Minimise the impacts of greenhouse gases relating from electricity consumption by:</p> <ul style="list-style-type: none"> - ensuring the most efficient crusher and other processing plant technology is used; - regularly inspecting the daily operations of lighting; and - implementing solar-powered lighting, where possible. 	Ongoing.	<p>Metromix aims to reduce the emission of greenhouse gases in general operations through the efficient use of diesel fuel and electricity. This is communicated to staff during inductions and in toolbox meetings regarding general housekeeping.</p> <p>Metromix also uses low-sulphur diesel fuel on-site in order to reduce emissions from on-site machinery.</p>	Compliant	
84.	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 0536 condition M2.2) and meteorological parameters (in accordance with EPL 0536 condition M4.1) had continued at the Teralba Quarry site.	Non-compliant	02
12. Visibility							
85.	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.	<p>Vegetation on the eastern side of the Southern Extension has been retained to provide a visual screen.</p> <p>No work has been conducted in the Northern Extensions</p>	Compliant	
86.	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	

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87.	12.3		Progressively establish vegetation on extraction faces at 50mAHD and above in western section of the Southern Extension.	Years 3 to 11 (approx).	Rehabilitation with establishment of vegetation on the extraction faces at 50mAHD and above and capping and revegetation of the silt cells in western section of the Southern Extension quarried area has been conducted.	Compliant	
88.	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	
89.	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							
90.	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	
91.	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	
92.	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	
93.	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	

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94.	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 Aboriginal community.	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	
95.	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 no-aboriginal artefacts have been discovered during works.	Not Triggered	
14. Soils							
96.	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	
97.	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	
98.	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	
99.	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	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	

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			until vegetation is established.				
100.	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) and 4m (subsoil) to maintain the available seed bank.	Compliant	
101.	14.6		Seed soil stockpiles with sterile cover crop (and limited fertiliser) as soon as possible where stockpiling is planned.	Immediately following stockpile construction.	It was reported that soil stockpiles hold a seed bank that regenerates a vegetation cover following rainfall. Seeding of stockpiles is undertaken where required, however this has not been required during the audit period (last three years). The quarry does seed and plant tube stock in designated areas as part of its ongoing rehabilitation process.	Compliant	
102.	14.7		Maintain an inventory of available soil to ensure adequate topsoil materials are available for planned rehabilitation activities.	Ongoing.	Metromix do not hold a soil inventory. Due to the nature of the conglomerate that is extracted, the fines, overburden and clayey materials that are extracted (with the hard rock resource) are generally applied directly to areas for backfilling silt cells or for areas under rehabilitation. Topsoil and subsoil are separately stockpiled and used as needed, but there is no record of volumes.	Not compliant	
103.	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	

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104.	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 respreading 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							
105.	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	
106.	15.2		Ensure fire extinguishers are fitted to all site vehicles.	Ongoing.	Site vehicles have fire extinguishers installed.	Compliant	
107.	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	
16. Documentation and Further Approvals							
108.	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	
109.	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	
110.	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 04, 19 June 2018) available which includes soil management.	Compliant	

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111.	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 02, 20 June 2016) available.	Compliant	
112.	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	
113.	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	
114.	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	
115.	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	
116.	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	
117.	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 DPI&E every year. e.g. - 2018-2019 –submitted 2/10/19 2016-2017 – submitted 9/10/17	Compliant	
118.	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	

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119.	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	
120.	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	
121.	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	

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7 Audit Checklist – Environmental Protection Licence 0536

AQUAS Ref No	Cond. No.	Condition	Finding and Recommendations	Compliance rating	Assessment Issue #												
ENVIRONMENTAL PROTECTION LICENCE 536																	
1.	A1.1	<p>This licence authorises the carrying out of the scheduled activities listed below at the premises specified in A2. The activities are listed according to their scheduled activity classification, fee-based activity classification and the scale of the operation. Unless otherwise further restricted by a condition of this licence, the scale at which the activity is carried out must not exceed the maximum scale specified in this condition.</p> <table><tr><th>Scheduled Activity</th><th>Fee Based Activity</th><th>Scale</th></tr><tr><td>Crushing, grinding or separating</td><td>Crushing, grinding or separating</td><td>> 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	<p>Extraction: 2019 – 605,000T (Approx.) 2018 – 615,000T 2017 - 807,000T</p>	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															
2.	L2.1	<p>For each monitoring/discharge point or utilisation area specified in the table/s below (by a point number), the concentration of a pollutant discharged at that point, or applied to that area, must not exceed the concentration limits specified for that pollutant in the table.</p> <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	<p>Monitoring conducted at points 5, 6 and 7 during discharge. No exceedances have been recorded at points 5, 6 or 7 during the period January 2017 to January 2020.</p>	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															


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3.	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).	No operations have been conducted in the northern extension. Reported that no discharge from the site has occurred at these locations.	Not triggered													
4.	L3.1	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. <table><tr><th>Point</th><th>Units of Measure</th><th>100 percentile Concentration limit</th></tr><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></table>	Point	Units of Measure	100 percentile Concentration limit	4	kilolitres per day		5	kilolitres per day	2000	5	megalitres per year	113	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. Opportunity for Improvement	Compliant	
Point	Units of Measure	100 percentile Concentration limit															
4	kilolitres per day																
5	kilolitres per day	2000															
5	megalitres per year	113															
5.	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.	No waste has been received at the site. Concrete waste received at the pug mill site, which is managed through EPL 13015.	Not triggered													
6.	L4.2	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. 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. 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. This condition does not limit any other conditions in this licence. <table><tr><th>Code</th><th>Waste</th><th>Description</th><th>Activity</th><th>Other Limits</th></tr></table>	Code	Waste	Description	Activity	Other Limits		Not triggered								
Code	Waste	Description	Activity	Other Limits													

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		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).																															
7.	5.1	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.							Compliant																												
8.	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>					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	Noise monitoring conducted by Spectrum Acoustics	Compliant	
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																																		
							Monitoring conducted that the identified locations during the required time periods.																														
							No exceedances as a result of quarry activities recorded.																														

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		Point 13						
		Time period	Measurement parameter	Measurement frequency	Noise level dB(A)			
		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			

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9.	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.		Compliant	
10.	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.	Weather conditions during noise monitoring periods have been recorded and considered in the interpretation of results.	Compliant	
11.	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).	Report identifies that meteorological data was obtained from the site meteorological station.	Compliant	
12.	L5.7	To determine compliance: a) with the Leq(15 minute) noise limits in the Noise Limits table, the noise measurement equipment must be located: i) approximately on the property boundary, where any dwelling is situated 30 metres or less from the property boundary closest to the premises; or 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 iii) within approximately 50 metres of the boundary of a National Park or a Nature Reserve. 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. c) with the noise limits in the Noise Limits table, the noise measurement equipment must be located: i) at the most affected point at a location where there is no dwelling at the location; or ii) at the most affected point within an area at a location prescribed by part (a) or part (b) of this condition.	Monitoring locations identified generally show monitoring to be conducted on the quarry side of residences.	Compliant	

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13.	L5.8	A non-compliance will still occur where noise generated from the premises in excess of the appropriate noise limit is measured: a) at a location other than an area prescribed by the conditions of this licence, and /or b) at a point other than the most affected point at a location.	No exceedances of the noise limits have been recorded.	Not triggered	
14.	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.	Class 1 Bruel and Kjaer noise meter used.	Compliant	
15.	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.	Blast monitoring records show that all blasts have occurred between 10:00 am and 4:00 pm Monday to Friday.	Compliant	
16.	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.	Records show that a maximum of one blast has occurred per day.	Compliant	
17.	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.	All recorded airblast overpressure level results have been less than 115 dB (Lin Peak). Maximum recorded level since January 2017 – 113.1dB(L).	Compliant	
18.	L6.4	The ground vibration peak particle velocity from blasting operations carried out in or on the premises must not exceed: a) 5 mm/s for more than 5% of the total number of blasts carried out on the premises during each reporting period; and b) 10 mm/s at any time. 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.	All recorded ground vibration peak particle velocity results have been less than 5mm/s Maximum recorded level since January 2017 - 1.07mm/s.	Compliant	
19.	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.	Compliance with blasting limits has been recorded at all monitoring sites.	Compliant	

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20.	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	Operations at the Metromix Teralba Quarry have occurred within the hours of operation specified in EPL 0536 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																		
21.	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																	
22.	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																	
23.	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.	Not triggered																	
24.	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.	Not triggered																	
Operating Conditions																					


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25.	O1.1	<p>Licensed activities must be carried out in a competent manner.</p> <p>This includes:</p> <ul style="list-style-type: none"> 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. 	<p>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.</p>	Compliant	
26.	O2.1	<p>All plant and equipment installed at the premises or used in connection with the licensed activity:</p> <ul style="list-style-type: none"> a) must be maintained in a proper and efficient condition; and b) must be operated in a proper and efficient manner. 	<p>Records of maintenance of plant and equipment available.</p> <p>Metromix use MEX for managing plant maintenance and servicing.</p> <p>Records reviewed for Front End Loader WL002, Excavator EX001.</p> <p>Prestart inspections completed</p> <p>WL002 – Service 1/10/19 (24813 hours)- 250 hr services</p> <p>24/06/19 – 12 month fire suppression inspection and servicing.</p>	Compliant	
27.	O2.2	<p>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.</p>	<p>No Underground Petroleum Storage Systems on site.</p> <p>Regular inspections and maintenance of drainage systems and pollution control equipment was conducted.</p> <p>Spill equipment and waste storage containers were provided.</p>	Compliant	
28.	O3.1	<p>The premises must be maintained in a condition which minimises or prevents the emission of dust from the premises</p>	<p>Operations and activities at the Teralba Quarry were observed to be managed to minimise the generation and emission of dust from the premises.</p> <p>Regular inspections of site conditions were conducted.</p>	Compliant	
29.	O3.2	<p>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.</p>	<p>Equipment had been provided to minimise dust emissions.</p> <p>Water carts used for reducing dust from road use. Sprays provided on conveyor</p>	Compliant	

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			systems and transfer points to minimise dust emissions.		
30.	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.	Teralba Quarry Emergency Response Plan, 11 October 2019 available. Pollution Incident Response Management Plan, March 2019.	Compliant	
31.	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,	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	
32.	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.	Surface runoff from disturbed areas of the Teralba Quarry site is collected and retained in sediment basins.	Compliant	
33.	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.	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	
34.	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.	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	

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35.	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.	<p>The above-ground storage tank for fuel and oils are bunded.</p> 	Compliant	
Monitoring Conditions					
36.	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.	Records of monitoring were readily available on site and on the company website.	Compliant	
37.	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	<p>Hard and soft copies of records available. Reports provided by consultants obtained in soft copy and filed.</p> <p>Back-ups of data conducted daily.</p>	Compliant	
38.	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.	<p>Chain of custody form completed for dust gauge monitoring.</p> <p>Reports provided by consultants for particulate monitoring, and noise monitoring.</p> <p>Water monitoring CoC forms sighted – completed by site staff.</p>	Compliant	
Requirement to monitor concentration of pollutants discharged					

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39.	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																																					
40.	M2.2	Air Monitoring Requirements POINT 1,8,9,10,11 <table><tr><th>Pollutant</th><th>Unit of Measure</th><th>Frequency</th><th>Sampling Method</th></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>				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	One non-compliance in January 2018. Result from one site not obtained due to refusal of landowner to allow access.	Non-Compliant	02																												
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																																									
41.	M2.3	Point 3 <table><tr><th>Pollutant</th><th>Unit of Measure</th><th>Frequency</th><th>Sampling Method</th></tr><tr><td>PM10</td><td>micrograms per cubic metre</td><td>Every 6 days</td><td>AM-18</td></tr></table> Water and/ or Land Monitoring Requirements Point 4 <table><tr><th>Pollutant</th><th>Unit of Measure</th><th>Frequency</th><th>Sampling Method</th></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 <table><tr><th>Pollutant</th><th>Unit of Measure</th><th>Frequency</th><th>Sampling Method</th></tr><tr><td>Electrical conductivity</td><td>microsiemens per centimetre</td><td>Daily during any discharge</td><td>Grab sample</td></tr></table>				Pollutant	Unit of Measure	Frequency	Sampling Method	PM10	micrograms per cubic metre	Every 6 days	AM-18	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	Pollutant	Unit of Measure	Frequency	Sampling Method	Electrical conductivity	microsiemens per centimetre	Daily during any discharge	Grab sample	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"; in accordance with EPL condition M2.3. 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 2017 and January 2020, so no water monitoring occurred.	Compliant	
Pollutant	Unit of Measure	Frequency	Sampling Method																																									
PM10	micrograms per cubic metre	Every 6 days	AM-18																																									
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																																									
Pollutant	Unit of Measure	Frequency	Sampling Method																																									
Electrical conductivity	microsiemens per centimetre	Daily during any discharge	Grab sample																																									

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		<table><tr><td>Oil and Grease</td><td>milligrams per litre</td><td>Daily during any discharge</td><td>Grab sample</td></tr><tr><td>pH</td><td>pH</td><td>Daily during any discharge</td><td>Grab sample</td></tr><tr><td>Total suspended solids</td><td>milligrams per litre</td><td>Daily during any discharge</td><td>Grab sample</td></tr></table> <p>Point 6,7</p> <table><tr><th>Pollutant</th><th>Unit of Measure</th><th>Frequency</th><th>Sampling Method</th></tr><tr><td>Electrical conductivity</td><td>microsiemens per centimetre</td><td>Special Frequency 1</td><td>Grab sample</td></tr><tr><td>Oil and Grease</td><td>milligrams per litre</td><td>Special Frequency 1</td><td>Grab sample</td></tr><tr><td>pH</td><td>pH</td><td>Special Frequency 1</td><td>Grab sample</td></tr><tr><td>Total suspended solids</td><td>milligrams per litre</td><td>Special Frequency 1</td><td>Grab sample</td></tr></table>	Oil and Grease	milligrams per litre	Daily during any discharge	Grab sample	pH	pH	Daily during any discharge	Grab sample	Total suspended solids	milligrams per litre	Daily during any discharge	Grab sample	Pollutant	Unit of Measure	Frequency	Sampling Method	Electrical conductivity	microsiemens per centimetre	Special Frequency 1	Grab sample	Oil and Grease	milligrams per litre	Special Frequency 1	Grab sample	pH	pH	Special Frequency 1	Grab sample	Total suspended solids	milligrams per litre	Special Frequency 1	Grab sample			
Oil and Grease	milligrams per litre	Daily during any discharge	Grab sample																																		
pH	pH	Daily during any discharge	Grab sample																																		
Total suspended solids	milligrams per litre	Daily during any discharge	Grab sample																																		
Pollutant	Unit of Measure	Frequency	Sampling Method																																		
Electrical conductivity	microsiemens per centimetre	Special Frequency 1	Grab sample																																		
Oil and Grease	milligrams per litre	Special Frequency 1	Grab sample																																		
pH	pH	Special Frequency 1	Grab sample																																		
Total suspended solids	milligrams per litre	Special Frequency 1	Grab sample																																		
42.	M2.4	For the purposes of the table(s) above Special Frequency 1 means the collection of samples within 8 hours of commencing discharge and weekly thereafter during discharge.		Compliant																																	
43.	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 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.	Sampling and analysis has been conducted in accordance with the sampling methods specified. Analysis by NATA accredited laboratory.	Compliant																																	

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44.	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	Sampling and analysis has been conducted in accordance with the sampling methods specified. Analysis by NATA accredited laboratory.	Compliant																																	
45.	M4.1	<p>Weather monitoring</p> <p>At the point(s) identified below, the licensee must monitor (by sampling and obtaining results by analysis) the parameters specified in Column 1 of the table below, using the corresponding sampling method, units of measure, averaging period and sampling frequency, specified opposite in the Columns 2, 3, 4 and 5 respectively.</p> <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="2">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	Meteorological Station installed and used to collect weather data. Noted that one non-compliance was reported as weather 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.	Not compliant	03
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																																		
46.	M4.2	For the purpose of condition above, Point 19 refers to the meteorological station established on the premises.	Weather monitoring conducted at Point 19.	Compliant																																	

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47.	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.	Site Plan available – EPL 0536 Variation which include all monitoring locations, including Point 19 (Meteorological Station).	Compliant	
48.	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.	Complaint register maintained electronically Shows 1 complaint April 2018. Complaints Register book maintained. Last entry 4/04/17 (not quarry related).	Compliant	
49.	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.	Complaint received April 2018 – Does not show date and time (April 2018) or details of the complainant. Recommendation: Metromix should ensure that records of complaints include all information required by EPL 0536 M5.2. Consider updating the complaints register to include prompts for required information.	Not compliant	07
50.	M5.3	The record of a complaint must be kept for at least 4 years after the complaint was made.	Records maintained indefinitely.	Compliant	
51.	M5.4	The record must be produced to any authorised officer of the EPA who asks to see them.	Records are readily available electronically on the website.	Compliant	
52.	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.	Contact telephone numbers for Metromix head office and Teralba Quarry site is on the signage at the entrance to the Teralba Quarry site from Rhonnda Road and are listed on the Metromix website – Contacts.	Compliant	
53.	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 Rhonnda Road and are listed on the Metromix website – Contacts.	Compliant	

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M7 Requirement to monitor volume or mass																							
54.	M7.1	<p>For each discharge point or utilisation area specified below, the licensee must monitor:</p> <p>a) the volume of liquids discharged to water or applied to the area;</p> <p>b) the mass of solids applied to the area;</p> <p>c) the mass of pollutants emitted to the air;</p> <p>at the frequency and using the method and units of measure, specified below.</p> <p>Point 4</p> <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> <p>POINT 5</p> <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> <p>POINT 5</p> <table><tr><th>Frequency</th><th>Unit of Measure</th><th>Sampling Method</th></tr><tr><td>Continuous during discharge</td><td>megalitres per year</td><td>Flow meter and continuous logger</td></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	Continuous during discharge	megalitres per year	Flow meter and continuous logger	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																					
Continuous during discharge	megalitres per year	Flow meter and continuous logger																					
Blasting																							
55.		<p>To determine compliance:</p> <p>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</p> <p>b) Instrumentation used to measure the airblast overpressure and ground vibration must meet the requirements of Australian Standard AS2187.2-2006</p>	All Teralba Quarry blasts are monitored for overpressure and vibration at fixed blast monitors in accordance with the approved locations.	Compliant																			
Noise Monitoring																							

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56.		<p>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.</p> <p>POINT 12,13,15,16,18</p> <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>2 times a year</td><td>1.5 hours</td><td>3 consecutive operation days</td></tr><tr><td>Evening</td><td>2 times a year</td><td>30 minutes</td><td>3 consecutive operation days</td></tr><tr><td>Night</td><td>2 times a year</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	2 times a year	1.5 hours	3 consecutive operation days	Evening	2 times a year	30 minutes	3 consecutive operation days	Night	2 times a year	1 hour	3 consecutive operation days	<p>Noise report does not include duration of monitoring.</p> <p>Reported by the Noise consultant that the noise monitoring was conducted for the minimum duration but reporting was for the maximum levels measured.</p>	Compliant	
Assessment period	Minimum frequency in a reporting period	Minimum duration within assessment period	Minimum number of assessment period																		
Day	2 times a year	1.5 hours	3 consecutive operation days																		
Evening	2 times a year	30 minutes	3 consecutive operation days																		
Night	2 times a year	1 hour	3 consecutive operation days																		
57.		<p>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.</p>	<p>Operator attended noise monitoring had been conducted at all locations.</p>	Compliant																	
Reporting Conditions																					
Annual Return Documents																					
58.	R1.1	<p>The licensee must complete and supply to the EPA an Annual Return in the approved form comprising:</p> <p>a) a Statement of Compliance; and</p> <p>b) a Monitoring and Complaints Summary.</p> <p>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.</p>	<p>Annual returns completed and submitted e.g. 2019 submitted 11/07/19.</p>	Compliant																	
59.	R1.5	<p>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').</p>	<p>Due 30 July.</p> <p>2019 return provided 11/07/2019.</p>	Compliant																	
60.	R1.7	<p>Within the Annual Return, the Statement of Compliance must be certified and the Monitoring and Complaints Summary must be signed by:</p> <p>a) the licence holder; or</p>	<p>Signed by Metromix General Manager.</p>	Compliant																	

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		b) by a person approved in writing by the EPA to sign on behalf of the licence holder.			
61.	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.	No exceedances of the blast limits has been measured.	Not triggered	
R2 Notification of environmental harm					
62.	R2.1	Notifications must be made by telephoning the Environment Line service on 131 555.	No incidents resulting in environmental harm have occurred.	Not triggered	
63.	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).		Not triggered	
64.	R3.1	Where an authorised officer of the EPA suspects on reasonable grounds that: a) where this licence applies to premises, an event has occurred at the premises; or b) where this licence applies to vehicles or mobile plant, an event has occurred in connection with the carrying out of the activities authorised by this licence, and the event has caused, is causing or is likely to cause material harm to the environment (whether the harm occurs on or off premises to which the licence applies), the authorised officer may request a written report of the event.		Not triggered	
65.	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.		Not triggered	

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66.	R3.3	<p>The request may require a report which includes any or all of the following information:</p> <ul style="list-style-type: none"> 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. 		Not triggered	
67.	R3.4	The EPA may make a written request for further details in relation to any of the above matters if it is not satisfied with the report provided by the licensee. The licensee must provide such further details to the EPA within the time specified in the request.		Not triggered	
68.	R3.5	<p>Dust Monitoring Report</p> <p>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 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. 	Dust and Blast Monitoring Report included in the Annual Return.	Compliant	
69.	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>	<p>Water overflow from the mine Adit dam in June 2019 recorded a TSS of 105mg/L.</p> <p>This water was not an overflow from the Teralba Quarry water management system and could not be controlled by</p>	Compliant	

AUDIT CHECKLIST: EPL 0536			
Project: AQ1266	Company: Metromix – Teralba Quarry	Date: 3-4 February 2020	

			Metromix. The overflows were reported to the EPA in accordance with Environment Protection Licence 0536 condition R4.1 as advice, as the overflow water did not result from the Teralba Quarry activities.		
70.	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>Report provided 14/01/2019 for November 2019 monitoring.</p> <p>Reports were not provided to the EPA for monitoring conducted during 2019.</p> <p>Recommendation: 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>	Not Compliant	08
71.	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	
72.	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	
73.	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	
74.	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	
75.	G2.1	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:	Quarry Manager mobile number provided on website.	Compliant	

AUDIT CHECKLIST: EPL 0536			
Project: AQ1266	Company: Metromix – Teralba Quarry	Date: 3-4 February 2020	

		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: i) speak on behalf of the licensee; and ii) provide any information or document required under this licence.	Reported to have been provided to the EPA.		
76.	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.	New Quarry Manager commenced work in May 2018. Commenced as Quarry Manager April 2019. No evidence that the EPA had been informed in writing of the change in contact persons. Recommendation: Metromix have formally notified the EPA in writing of the change in the site contact person (5/02/2020). No further action required.	Non-Compliant	09

AUDIT CHECKLIST: Water Access Licence			
Project: AQ1266	Company: Metromix – Teralba Quarry	Date: 3-4 February 2020	

8 Audit Checklist – Water Access Licence 40303

Condition Number	Condition	Findings and Recommendations	Compliance Rating	Assessment Issue No.
1	Allocation of 1 407 shares (currently 1ML per share).	<p>Flow measurements of water pumped from mine adit dam to Dam G recorded.</p> <p>Records show water usage has not exceeded licence limit.</p> <p>2018 – 923.6ML</p> <p>2017 – 1077ML</p> <p>2016 – 1233ML</p>	Compliant	

Appendix D. Consultation Records

From: [James Epstein](#)
To: [Hedl James](#)
Cc: [Heidi Watters](#)
Subject: RE: Independent Environmental Audit - Metromix Teralba Quarry
Date: Tuesday, 21 January 2020 9:40:59 AM

Hi James,

Thank you for consulting with the Department regarding the upcoming Metromix Teralba Quarry audit.

The Department requests that the auditor pay particular focus with the following:

- Air quality criteria and the air quality management plan;
- Site water management; and
- Rehabilitation

If you'd like to discuss further I can be contacted on the details provided below.

Regards

James Epstein
Senior Compliance Officer

Planning & Assessment | Department of Planning, Industry and Environment
T 02 6575 3419 | **M** 0429 395 691 | **E** james.epstein@planning.nsw.gov.au
PO Box 3145, Singleton NSW 2330

If you are submitting a compliance document or request as required under the conditions of consent or approval, please note that the Department is no longer accepting lodgement via compliance@planning.nsw.gov.au.

The Department has recently upgraded the Major Projects Website to improve the timeliness and transparency of its post approval and compliance functions. As part of this upgrade, proponents are now requested to submit all post approval and compliance documents online, via the Major Projects Website. To do this, please refer to the instructions available [here](#).

www.dpie.nsw.gov.au



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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.



Please consider the environment before printing this e-mail.

From: [Colin Phillips](#)
To: [Hart, James](#)
Cc: [DPE PSYC Compliance Mailbox](#)
Subject: RE: Independent Environmental Audit - Metromix Teralba Quarry
Date: Tuesday, 21 January 2020 9:49:56 AM

Good Morning James,

I have directed your enquiry to our Compliance Branch, who is the main Departmental point of contact for matters concerning environmental audits.

From the assessments team, there are no specific matters that I wish to raise.

Regards

Colin Phillips
Team Leader
Energy and Resource Assessments
4 Parramatta Square, 12 Darcy Street, Parramatta NSW 2150
T 02 9274 6483 E: colin.phillips@planning.nsw.gov.au



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I usually do not work Thursdays



Please consider the environment before deciding to print this e-mail.

From: Hart, James <james.hart@aquas.com.au>
Sent: Tuesday, 21 January 2020 8:33 AM
To: Colin Phillips <Colin.Phillips@planning.nsw.gov.au>
Subject: FW: Independent Environmental Audit - Metromix Teralba Quarry

Hi Colin,

AQUAS has been engaged to undertake an Independent Environmental Audit of the Teralba Quarry operated by Metromix. As a requirement of the Independent Environmental Audit process I am seeking feedback from various agencies in regard to any issues that may have arisen or concerns which you may have in relation to the construction operations. These 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.

Please note that the audit will be conducted on 3-4 February 2020.

From: [Helen Squires](#)
To: [Hart, James](#)
Cc: [Landuse Ag](#)
Subject: Re: Independent Environmental Audit - Metromix Teralba Quarry
Date: Friday, 24 January 2020 12:31:25 PM

Hi James

DPI Agriculture have no known issues with the Teralba Quarry operated by Metromix .

Kind Regards
Helen

Helen Squires | Agriculture Land Use Planner

Agriculture Land Use Planning | Agriculture Resources

NSW Department of Primary Industries | Agriculture

Level 3 | 26 Honeysuckle Drive | Newcastle | NSW 2300 | PO Box 2213, Dangar NSW 2309

M: 0437 645 719 | E: helen.squires@dpi.nsw.gov.au



On Tue, Jan 21, 2020 at 3:25 PM Landuse Ag <landuse.ag@dpi.nsw.gov.au> wrote:

Hi Helen
for your response

thanks

Lilian
Agricultural Land Use Planning
DPI Agriculture | Department of Primary Industries
C/- 161 Kite Street | Locked Bag 21 | Orange NSW 2800
T: 02 6391 3369 | F: 02 6391 3543 | E: landuse.ag@dpi.nsw.gov.au
www.trade.nsw.gov.au | www.dpi.nsw.gov.au

Primary Contact: Lilian Parker
E mail: lilian.parker@dpi.nsw.gov.au

----- Forwarded message -----

From: Hart, James <james.hart@aquas.com.au>
Date: Tue, Jan 21, 2020 at 8:30 AM
Subject: Independent Environmental Audit - Metromix Teralba Quarry

From: [Margaret MacDonald-Hill](#)
To: [Hart, James](#)
Subject: RE: Independent Environmental Audit - Metromix Teralba Quarry
Date: Friday, 24 January 2020 10:21:54 AM
Attachments: [Metromix Draft Minutes October 2019.pdf](#)

Hi James,

Thank you for your email. I wish to confirm my earlier telephone advice that the Committee does not have any concerns with the Metromix operations at the Teralba Quarry that I am aware of. In fact, at the October meeting of the committee, in view of the negligible complaints record and high compliance with consent conditions by the quarry, it was resolved to meet annually, until there was a need to change this. All minutes of the committee are available on the website and I have attached the October minutes for your information.

Please let me know if you require any further information.

Margaret MacDonald-Hill
0448 414 888
mmacdonald-hill@bigpond.com

From: Hart, James [<mailto:james.hart@aquas.com.au>]
Sent: Tuesday, 21 January 2020 8:36 AM
To: mmacdonald-hill@bigpond.com
Subject: FW: Independent Environmental Audit - Metromix Teralba Quarry

Hi Margaret,

AQUAS has been engaged to undertake an Independent Environmental Audit of the Teralba Quarry operated by Metromix. As a requirement of the Independent Environmental Audit process I am seeking feedback from various agencies in regard to any issues that may have arisen or concerns which you may have in relation to the construction operations. These 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.

Please note that the audit will be conducted on 3-4 February 2020.

Regards

James Hart | Management Consultant

Certified Exemplar Global Lead OHS Auditor
Certified Exemplar Global Lead Environmental Auditor
Certified Exemplar Global Lead Quality Management System Auditor

From: [Steven Cox](#)
To: [Hart, James](#)
Subject: RE: Independent Environmental Audit - Metromix Teralba Quarry
Date: Wednesday, 22 January 2020 5:52:49 PM

Hi James,

Thank you for the opportunity to provide input into the audit process, however in this case we don't have any specific concerns to raise for the audit.

Good luck with the audit.

Regards

Steven

Steven Cox

Senior Team Leader Planning, Hunter Central Coast Branch

Biodiversity and Conservation Division | Department of Planning, Industry and Environment
T 02 4927 3140 | **M** 0472 800 088 | **E** steven.cox@environment.nsw.gov.au
Level 4/26, Honeysuckle Drive Newcastle NSW 2309
Locked Bag 1002, Dangar NSW 2309
www.dpie.nsw.gov.au

From: Katherine Carter <Katherine.Carter@environment.nsw.gov.au> **On Behalf Of** OEH Planning Matters Mailbox
Sent: Tuesday, 21 January 2020 9:18 AM
To: OEH ROD Hunter Central Coast Mailbox <rog.hcc@environment.nsw.gov.au>
Subject: FW: Independent Environmental Audit - Metromix Teralba Quarry

From: Hart, James <james.hart@aquas.com.au>
Sent: Tuesday, 21 January 2020 8:33 AM
To: OEH Planning Matters Mailbox <PlanningMatters@environment.nsw.gov.au>; Steven Cox <Steven.Cox@environment.nsw.gov.au>
Subject: FW: Independent Environmental Audit - Metromix Teralba Quarry

Hi,

AQUAS has been engaged to undertake an Independent Environmental Audit of the Teralba Quarry operated by Metromix. As a requirement of the Independent Environmental Audit process I am seeking feedback from various agencies in regard to any issues that may have arisen or concerns which you may have in relation to the construction operations. These 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.

From: [EPA RSD Hunter Region Mailbox](#)
To: [Hart, James](#)
Subject: Thank you - Automated Response
Date: Tuesday, 21 January 2020 8:33:01 AM
Attachments: [image001.png](#)
[image002.png](#)

Thank you for your email to the Environment Protection Authority's Hunter Region.

Your enquiry has been sent to the appropriate EPA officer for their action.

If the matter is urgent, please contact the EPA on (02) 4908 6800.

hunter.region@epa.nsw.gov.au www.epa.nsw.gov.au [@EPA_NSW](#)
Report pollution and environmental incidents 131 555 (NSW only) or +61 2 9995 5555



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