Appendix 1

Project Approval PA10_0183

(Total No. of pages including blank pages = 44)

METROMIX PTY LTD

Teralba Quarry

2015 ANNUAL REVIEW Report No. 559/41 Appendix 1

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2015 ANNUAL REVIEW Report No. 559/41 Appendix 1

Project Approval

Section 75J of the Environmental Planning and Assessment Act 1979

As delegate of the Minister for Planning and Infrastructure, I approve the project application referred to in schedule 1, subject to the conditions in schedules 2 to 5.

These conditions are required to:

- prevent, minimise, and/or offset adverse environmental impacts;
- set standards and performance measures for acceptable environmental performance;
- require regular monitoring and reporting; and
- provide for the ongoing environmental management of the project.

Sam Haddad Director-General

Sydney 22 her February

SCHEDULE 1

2013

Application Number: 10_0183

Proponent: Metromix Pty Limited

Approval Authority: Minister for Planning and Infrastructure

Land: Lot 1 DP 224037

Lot 2 DP 224037

Project: Teralba Quarry Extension

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Teralba Quarry

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DPI

km

Land

Teralba Quarry

DEFINITIONS

AM peak period 7:30 am to 9 am weekdays

The review required by condition 4 of schedule 5 Annual review

BCA Building Code of Australia

Biodiversity offset strategy The conservation and enhancement strategy described in the EA,

and depicted conceptually in the figure in Appendix 5

Community Consultative Committee

Conditions of this approval Conditions contained in schedules 1 to 5 inclusive

Council Lake Macquarie City Council

Australian Bureau of Statistics Consumer Price Index CPI

Department Department of Planning and Infrastructure Director-General Director-General of the Department, or nominee

Division of Resources and Energy within the Department of Trade DRE

and Investment, Regional Services and Infrastructure

Department of Primary Industries within the Department of Trade and

Investment, Regional Services and Infrastructure

FΑ Environmental Assessment of the project titled Environmental

Assessment for the Teralba Quarry Extensions, Major Project Application No. 10_0183, prepared by RW Corkery & Co Pty Limited and dated November 2011; and the Teralba Quarry Extensions Response to Submissions, prepared by RW Corkery & Co Pty Limited and dated June 2012

EPA NSW Environment Protection Authority

EP&A Act Environmental Planning and Assessment Act 1979 EP&A Regulation Environmental Planning and Assessment Regulation 2000 Environment Protection Licence under the POEO Act

The Southern, Southern Extension, Mid Pit and Northern Extension Extraction Areas

Extraction Areas shown on Figure 1 in Appendix 1

Feasible Feasible relates to engineering considerations and what is practical

to build

Haulage routes The transport routes (see also Appendix 4) along which quarry

products may be hauled from the site:

• Route 1 - Northwestern Corridor: westwards along Rhondda Road, and then northwards along Wakefield Road and Northville Road to George Booth Drive:

• Route 2 - Southwestern Corridor: westwards along Rhondda Road, and then southwards along Wakefield Road to the F3 Freeway;

 Route 3 – Northeastern Corridor: northeast along Railway Street. Teralba, crossing the railway line, then southwards along York Street Teralba, then north-easterly along Five Islands Road to either The Esplanade or Lake Road; and

• Route 4 - Southeastern Corridor: northeast along Railway Street, Teralba, crossing the railway line, then southwards along York Street Teralba and Toronto Road

kilometres

As defined in the EP&A Act, except for where the term is used in the noise and air quality conditions in schedules 3 and 4 of this approval where it is defined to mean the whole of a lot, or contiguous lots, owned by the same landowner, in a current plan registered at the

Land Titles Office at the date of this approval

m AHD metres Australian Height Datum

Material harm to the environment Actual or potential harm to the health or safety of human beings or to

ecosystems that is not trivial

Minister for Planning and Infrastructure, or delegate Minister

Minor Not very large, important or serious

Negligible Small and unimportant, such as to be not worth considering NSW Office of Water, within the Department of Primary Industries NOW OEH Office of Environment and Heritage within the Department of Premier

and Cabinet

NSW Government

Department of Planning and Infrastructure

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Teralba Quarry

Reasonable

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Privately-owned land Land that is not owned by a public agency or the Proponent (or its

subsidiary)

PM peak period 4:30 pm to 6:00 pm weekdays

POEO Act Protection of the Environment Operations Act 1997

Project The development as described in the EA

Proponent Metromix Pty Limited, or any other person who seeks to carry out the

development approved under this approval

handling, storage and transportation of extractive materials on site Reasonable relates to the application of judgement in arriving at a decision, taking into account mitigation benefits, cost of mitigation

decision, taking into account mitigation benefits, cost of mitigation versus benefits provided, community views and the nature and

extent of potential improvements

Rehabilitation The restoration of land disturbed by the project to a good condition,

ensuring that it is safe, stable and non-polluting and appropriately

revegetated

RMS Roads and Maritime Services

Statement of commitments

The Proponent's commitments in Appendix 3
Site

The land listed under "Land" in schedule 1

SCHEDULE 2 ADMINISTRATIVE CONDITIONS

OBLIGATION TO MINIMISE HARM TO THE ENVIRONMENT

 In addition to meeting the specific performance criteria established under this approval, the Proponent shall 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.

TERMS OF APPROVAL

- 2. The Proponent shall carry out the project generally in accordance with the:
 - (a) EA
 - (b) statement of commitments; and
 - (c) conditions of this approval.

Notes:

- The general layout of the project is shown in Appendix 1 and Appendix 2.
- The statement of commitments is reproduced in Appendix 3.
- 3. If there is any inconsistency between the above documents, 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.
- 4. The Proponent shall comply with any reasonable requirement/s of the Director-General arising from the Department's assessment of:
 - any reports, strategies, plans, programs, reviews, audits or correspondence that are submitted in accordance with this approval; and
 - (b) the implementation of any actions or measures contained in these documents.

LIMITS ON APPROVAL

Quarrying Operations

5. The Proponent may carry out quarrying operations on the site until 31 December 2038.

Note: Under this approval, the Proponent is required to rehabilitate the site and carry out additional undertakings to the satisfaction of the Director-General. 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.

Extractive Material Limits

6. The Proponent shall 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.

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.

7. The Proponent shall not extract more than 1.2 million tonnes of extractive materials from the site in any calendar year.

Extractive Material Transport

- The Proponent shall not:
 - (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;
 - (d) dispatch more than 85 laden trucks per day or 8 per hour eastwards through Teralba;
 - (e) dispatch laden trucks for travel through Teralba between 6 pm and 6 am; or
 - (f) receive unladen trucks via the railway street entrance between 6 pm and 7 am.

NSW Government Department of Planning and Infrastructure The Proponent shall limit the total hourly truck dispatch rates from the site to the levels shown in Table 1.

Table 1 - Truck Dispatch Hours

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Dispatch Period	Maximum Hourly Dispatch Rate
6:00 am - 7:00 am	Up to 28 loaded trucks
7:00 am - 6:00 pm	Up to 20 loaded trucks
6:00 pm - 5:00 am	Up to 6 loaded trucks
5:00 am - 6:00 am	Up to 12 loaded trucks

Note: Dispatch times and maximum hourly rates westwards along Rhondda Road or eastwards through Teralba are further limited by condition 8 above.

Receival of Concrete, Virgin Excavated Natural Material and Excavated Natural Material

- 10. The Proponent shall 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.
- 11. The Proponent shall not receive on site more than 100,000 tonnes of virgin excavated natural material or excavated natural material in any calendar year.

SURRENDER OF CONSENTS

12. By the end of December 2013, or as otherwise agreed by the Director-General, the Proponent shall surrender the development consent (DA 130/42) for existing operations on the site in accordance with Section 104A of the EP&A Act.

Note: The conditions or other requirements of this project approval do not prevent the continued carrying out of development which may be undertaken pursuant to DA 130/42, prior to the surrender of that consent.

STRUCTURAL ADEQUACY

- 13. The Proponent shall ensure that any new buildings and structures, and any alterations, or additions to existing buildings and structures, are constructed:
 - a) in accordance with the relevant requirements of the BCA; and
 - b) to the satisfaction of the Mine Subsidence Board.

Notes:

- Under Part 4A of the EP&A Act, the Proponent is required to obtain construction and occupation certificates for the proposed building works.
- Part 8 of the EP&A Regulation sets out the requirements for the certification of the project.
- Under Section 15 of the Mine Subsidence Compensation Act 1961 the Proponent is required to obtain
 approval from the Mine Subsidence Board for the construction, erection or alteration of any improvements on
 the site.

DEMOLITION

14. The Proponent shall ensure that all demolition work on site is carried out in accordance with AS 2601-2001: The Demolition of Structures, or its latest version.

PROTECTION OF PUBLIC INFRASTRUCTURE

- 15. The Proponent shall:
 - (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.

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PLANNING AGREEMENT

Within 12 months of the date of this approval, unless otherwise agreed by the Director-General, the Proponent shall enter into a planning agreement with the Council in accordance with Division 6 of Part 4 of the EP&A Act that provides for payment to the Council for road maintenance levies.

The agreement must include provision for those matters set out in condition 17 below.

If there is any dispute between the Proponent and Council relating to the preparation or implementation of the planning agreement, then either party may refer the matter to the Director-General for resolution.

ROAD MAINTENANCE

- 17. During the life of the project, for each calendar year, the Proponent shall pay Council \$0.066 per tonne per kilometre for every tonne of quarry products transported from the site on roads for which Council is liable for road maintenance funding. Each payment must be:
 - (a) based on weighbridge records of the quantity of quarry products transported from the site;
 - (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.

OPERATION OF PLANT AND EQUIPMENT

- 18. The Proponent shall ensure that all plant and equipment used at the site is:
 - (a) maintained in a proper and efficient condition; and
 - (b) operated in a proper and efficient manner.

STAGED SUBMISSION OF ANY STRATEGY, PLAN OR PROGRAM

- 19. With the approval of the Director-General, the Proponent may submit any strategy, plan or program required by this approval on a progressive basis. Notes:
 - While any strategy, plan or program may be submitted on a progressive basis, the Proponent will need to
 ensure that the existing operations on site are covered by suitable strategies, plans or programs at all times;
 and
 - If the submission of any strategy, plan or program is to be staged, then the relevant strategy, plan or program
 must clearly describe the specific stage to which the strategy, plan or program applies, the relationship of this
 stage to any future stages, and the trigger for updating the strategy, plan or program.

PRODUCTION DATA

- 20. The Proponent shall:
 - (a) provide annual quarry production data to DRE 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).

SCHEDULE 3 ENVIRONMENTAL PERFORMANCE CONDITIONS

IDENTIFICATION OF APPROVED LIMITS OF EXTRACTION

- 1. Prior to carrying out quarrying operations under this approval, the Proponent shall:
 - (a) engage a registered surveyor to mark out the boundaries of the approved limits of extraction within the Extraction Areas; and
 - (b) submit a survey plan of these boundaries to the Director-General.
- While ever quarrying operations are being carried out, the Proponent shall 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.

EXTRACTION MANAGEMENT

Operating Conditions

- 3. The Proponent must ensure that:
 - the underlying historical coal workings within the Great Northern coal seam pose not greater than a negligible risk to the safety of quarry workers, including risks from sudden unplanned collapses, release of noxious gases or explosion of flammable gases; and
 - (b) quarrying operations pose not greater than a negligible risk to the heating or combustion of the underlying historical coal workings within the Great Northern coal seam.

Lower Level Extraction Management Plan

- 4. The Proponent shall prepare and implement 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 Director-General. This plan must:
 - (a) be submitted for approval to the Director-General 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 Director-General;
 - (c) provide for the achievement of the measures set out in condition 3 above;
 - (d) describe the measures that would be implemented to ensure:
 - 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 DRE and Oceanic Coal Pty Ltd, to manage the potential risks and impacts of spontaneous combustion or heating of coal, and which:
 - includes a detailed assessment, of the risks of spontaneous combustion and subsurface heating for each of the existing and proposed Extraction Areas:
 - clearly indentifies responsibilities to address management of spontaneous combustion and subsurface heating risks, for both day to day operations and long term management; and
 - includes appropriate short and long term contingency plans.

NOISE

Noise Criteria

5. The Proponent shall ensure that the noise generated by the project does not exceed the criteria in Table 2 at any residence on privately-owned land.

Table 2: Noise criteria dB(A)

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 _{Aeg(15 min)}	L _{Aeg(15 min)}	L _{Aeg(15 min)}	L _{A1(1 min)}
Α	38	38	37	35	45
В	42	46	36	35	45
С	42	42	35	35	45
D, E, G, H, I	35	35	35	35	45
F	37	38	38	35	45

Notes:

- 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.

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.

Hours of Operation

6. The Proponent shall comply with the operating hours set out in Table 3.

Table 3: Operating Hours

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

Note: Maintenance activities may occur at any time provided they are inaudible at privately-owned residences.

Operating Conditions

- 7. The Proponent shall:
 - (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

to the satisfaction of the Director-General.

Noise Management Plan

- 8. The Proponent shall prepare and implement a Noise Management Plan for the project to the satisfaction of the Director-General. This plan must:
 - (a) be submitted for approval to the Director-General within 4 months of the date of this approval;
 - (b) describe the measures that would be implemented to ensure:
 - 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;
 - (c) describe the proposed noise management system in detail; and
 - (d) include a monitoring program that:

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- 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.

BLASTING

Blasting Criteria

9. The Proponent shall ensure that the blasting on the site does not cause exceedances of the criteria in Table 4.

Table 4: Blasting criteria

Location	Airblast overpressure (dB(Lin Peak))	Ground vibration (mm/s)	Allowable exceedance
Any residence on	120	10	0%
privately owned land, or any public infrastructure	115	5	5% of the total number of blasts over a period of 12 months

However, these criteria do not apply if the Proponent has a written agreement with the relevant owner or infrastructure provider/owner, and the Proponent has advised the Department in writing of the terms of this agreement.

Blasting Hours

10. The Proponent shall 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 Director-General.

Blasting Frequency

11. The Proponent shall not carry out more than 1 blast a day on site, unless an additional blast is required following a blast misfire.

Note: A blast may involve a number of explosions within a short period, typically less than two minutes.

Property Inspections

- 12. 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 shall:
 - (a) commission a suitably qualified, experienced and independent person, whose appointment has been approved by the Director-General, to:
 - establish the baseline condition of any buildings and/or structures on the land, or update the previous property inspection report, and
 - identify any measures that should be implemented to minimise the potential blasting impacts of the project on these buildings and/or structures; and
 - (b) give the landowner a copy of the new or updated property inspection report.

Property Investigations

- 13. 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 shall:
 - (a) commission a suitably qualified, experienced and independent person, whose appointment is acceptable to both parties, to investigate the claim; and
 - (b) give the landowner a copy of the property investigation report.

If this independent property investigation confirms the landowner's claim, and both parties agree with these findings, then the Proponent shall repair the damages to the satisfaction of the Director-General.

If the Proponent or landowner disagrees with the findings of the independent property investigation, then either party may refer the matter to the Director-General for resolution.

Operating Conditions

- During blasting operations, the Proponent shall:
 - (a) implement best management practice to:
 - protect the safety of people and livestock in the surrounding area;
 - protect public or private infrastructure/property in the surrounding area from any damage;
 - minimise the dust and fume emissions of any blasting; and
 - (b) operate a suitable system to enable the public to get up-to-date information on the proposed blasting schedule on site.

to the satisfaction of the Director-General.

- 15. The Proponent shall not undertake blasting within 500 metres of:
 - (a) any public road without the approval of Council; or
 - (b) any land outside the site not owned by the Proponent, unless:
 - 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:
 - demonstrated to the satisfaction of the Director-General 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.

Blast Management Plan

- 16. The Proponent shall prepare and implement a Blast Management Plan for the project to the satisfaction of the Director-General. This plan must:
 - (a) be submitted to the Director-General 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;
 - (c) describe the measures that would be implemented to ensure:
 - best management practice is being employed; and
 - compliance with the relevant conditions of this approval;
 - (d) include a road closure management plan for blasting within 500 metres of a public road, that has been prepared in consultation with Council;
 - include a specific blast fume management protocol to demonstrate how emissions will be minimised including risk management strategies if blast fumes are generated; and
 - (f) include a monitoring program for evaluating the performance of the project including:
 - compliance with the applicable criteria; and
 - minimising fume emissions from the site.

AIR QUALITY

Air Quality Criteria

17. The Proponent shall 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.

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Table 5: Long-Term Impact Assessment Criteria for Particulate Matter

Pollutant	Averaging period	^d Criterion
Total suspended particulates (TSP)	Annual	^а 90 µg/m ³
Particulate matter < 10 μm (PM ₁₀)	Annual	^а 30 µg/m ³

Table 6: Short Term Impact Assessment Criteria for Particulate Matter

Pollutant	Averaging period	^d Criterion
Particulate matter < 10 µm (PM ₁₀)	24 hour	^а 50 µg/m ³

Table 7: Long-Term Impact Assessment Criteria for Deposited Dust

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	

Notes to Tables 5-7:

- ^a Total impact (ie incremental increase in concentrations due to the project plus background concentrations due to all other sources);
- b Incremental impact (ie 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 Director-General in consultation with EPA.

Greenhouse Gas Emissions

18. The Proponent shall implement all reasonable and feasible measures to minimise the release of greenhouse gas emissions from the site.

Operating Conditions

- 19. The Proponent shall:
 - (a) implement best management practice to minimise the dust emissions of the project,
 - (b) regularly assess air quality monitoring data and relocate, modify, and/or stop operations on site as may be required to ensure compliance with the relevant conditions of this approval,
 - (c) minimise the air quality impacts of the project during adverse meteorological conditions and extraordinary events (see Note d to Tables 5-7 above);
 - (d) minimise any visible off-site air pollution; and
 - (e) minimise surface disturbance of the site, other than as permitted under this approval.

Air Quality Management Plan

- 20. The Proponent shall prepare and implement an Air Quality Management Plan for the project to the satisfaction of the Director-General. This plan must:
 - (a) be prepared in consultation with Council, and submitted for approval to the Director-General within 4 months of the date of this approval;
 - (b) describes the measures that would be implemented to ensure:
 - best management practice is employed;
 - the air quality impacts of the project are minimised during adverse meteorological conditions and extraordinary events; and
 - compliance with the relevant conditions of this approval;
 - (c) describes the proposed air quality management system; and
 - (d) includes an air quality monitoring program that:
 - is capable of evaluating the performance of the project;

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- includes a protocol for determining any exceedances of the relevant conditions of approval;
- adequately supports the air quality management system; and
- · evaluates and reports on the adequacy of the air quality management system.

METEOROLOGICAL MONITORING

- 21. 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:
 - 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.

SOIL & WATER

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.

Water Supply

22. The Proponent shall 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.

Surface Water Discharges

23. 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.

On-Site Sewage Management

24. The Proponent shall manage on-site sewage to the satisfaction of Council and the EPA.

Storage of Chemicals & Petroleum Products

- 25. The Proponent shall ensure that all chemicals and/or petroleum products on site are held in appropriately bunded areas with impervious flooring and sufficient capacity to contain 110% of the largest container stored within the bund, and in accordance with Australian Standard AS1940-2004, The Storage and Handling of Flammable and Combustible Liquids. The flooring and bund(s) shall be designed in accordance with:
 - · the requirements of relevant Australian Standards; and
 - DECC's Storing and Handling Liquids: Environmental Protection Participants Manual.

Water Management Plan

26. The Proponent shall prepare and implement a Water Management Plan for the project to the satisfaction of the Director-General. 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 Director-General, and be submitted to the Director-General for approval within 6 months of the date of this approval and prior to any extraction activities within the Northern Extension area.

In addition to the standard requirements for management plans (see condition 3 of schedule 5), this plan must include a:

- (a) Site Water Balance that:
 - · includes details of:
 - o sources and security of water supply, including contingency planning;
 - water use on site;
 - o 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;

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 - (b) Surface Water Management Plan, that includes:
 - 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:
 - o clean water diversion systems;
 - o erosion and sediment controls; and
 - water storages;
 - design objectives and performance criteria for proposed:
 - erosion and sediment control structures;
 - o water storages; and
 - o control of water pollution from rehabilitated areas of the site;
 - performance criteria, including trigger levels for investigating any potentially adverse impacts, for surface water quality of local watercourses and Lake Macquarie;
 - - o the effectiveness of the water management system;
 - o 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
 - a detailed review the dirty water management system to:
 - o 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 The Blue Book - Managing Urban Stormwater (MUS): Soils and Construction (Landcom); and
 - (c) Groundwater Management Plan, that includes:
 - 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:
 - o surface water inflows into the groundwater system beneath the site;
 - o the impacts of the project on:
 - the local coal seam aquifer;
 - any groundwater bores on privately-owned land that could be affected by the project; and
 - groundwater dependent ecosystems; and
 - o 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;

Note: The Director-General may require the Proponent to implement upgrades and other changes identified under paragraph (b), in accordance with condition 4 of schedule 2.

VISUAL

Protection of Ridgelines

- 27. The Proponent shall 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.
- 28. The Proponent shall ensure that the:
 - eastern facing quarry benches of the Southern Extension are vegetated with native endemic (a) 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

to the satisfaction of the Director-General.

Operating Conditions

- 29. The Proponent shall
 - (a) implement all reasonable and feasible measures to minimise the visual impacts and any offsite lighting impacts of the project; and
 - (b) maintain and improve the effectiveness of the vegetated plantings on the quarry benches, over the life of the project.

Advertising Signage

 The Proponent shall not erect or display any advertising structure(s) or signs on the site without the written approval of the Director-General.

Note: This condition does not require approval for any business identification, traffic management, and/or safety or environmental signs.

TRANSPORT

Intersection Investigation and Wheel Wash

- 31. Within 6 months of the date of this approval the Proponent shall:
 - (a) commission a suitably qualified and experienced person endorsed by the Director-General to undertake a road safety audit report of the intersection of York Street and Anzac Parade in consultation with Council;
 - (b) submit the report and any recommendations to the Director-General for approval; and
 - (c) implement any recommendations of the road safety audit to upgrade the intersection of York Street and Anzac Parade to the satisfaction of Council.
- 32. The Proponent shall 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 Director-General.

Operating Conditions

- 33. The Proponent shall construct the tunnel and conveyor under Rhondda Road to the satisfaction of Council.
- 34. Within 6 months of the date of this approval, the Proponent shall cease transporting quarry material by truck between the quarry pits.
- 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.
- 36. The Proponent shall 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 (ie 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.
- 37. During the AM peak period and PM peak period, the Proponent shall 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 Director-General.
- 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.

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Maintenance

39. The Proponent shall 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 Director-General.

Monitoring of Product Transport

- 40. The Proponent shall:
 - (a) keep accurate records of:
 - · the amount of quarry products transported from the site (monthly and annually); and
 - all laden truck movements from the site (hourly, daily, weekly, monthly and annually); and
 - (b) publish these records on its website on a quarterly basis.

Road Signage

- 41. Within 6 months of the date of this approval the Proponent shall install flashing lights within Northville Drive for the 40 km school zones outside of Barnsley and Edgeworth Heights Public Schools, to the satisfaction of RMS.
- 42. Prior to carrying out quarrying operations under this approval, the Proponent shall install "Trucks entering" warning signs 200 metres either side of the quarry entrances on public roads.

Parking

43. The Proponent shall provide sufficient parking on-site for all project-related traffic in accordance with Council's parking codes and in consultation with Council.

Transport Management Plan

- 44. The Proponent shall prepare and implement a Transport Management Plan for the project to the Director-General. This plan must:
 - be prepared by a suitably qualified traffic consultant in consultation with the RMS and Council, and submitted to the Director-General for approval within 4 months of the date of this approval;
 - (b) include a drivers' code of conduct for the project;
 - (c) describe the measures that would be implemented to ensure:
 - 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
 - (d) include a program to monitor the effectiveness of the implementation of these measures.

BUSHFIRE MANAGEMENT

- 45. The Proponent shall:
 - a) ensure that the project is suitably equipped to respond to any fires on site; and
 - b) assist the Rural Fire Service, emergency services and National Parks and Wildlife Service as much as possible if there is a fire in the surrounding area.

WASTE

- 46. Prior to importing any Virgin Excavated Natural Material or excavated natural material to the site, the Proponent must obtain a 'resource recovery exemption' under the POEO Act and provide evidence of this approval to the Department.
- 47. The Proponent shall:
 - (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 Director-General.

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- 48. The Proponent shall prepare and implement a Waste Management Plan for the project to the satisfaction of the Director-General. This plan must:
 - (a) be prepared in consultation with DRE and Council, and submitted to the Director-General for approval prior within 4 months of the date of this approval;
 - (b) identify the various waste streams of the project;
 - 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.

ABORIGINAL HERITAGE

Heritage Management Plan

- 49. The Proponent shall prepare and implement a Heritage Management Plan for the project to the satisfaction of the Director-General. This plan must:
 - (a) be prepared in consultation with Aboriginal stakeholders:
 - (b) be submitted to the Director-General 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:
 - · 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.

LANDSCAPE

Fauna Habitat

- 50. The Proponent shall 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.
- 51. The Proponent shall, 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.

Biodiversity Offset Strategy

52. The Proponent shall implement the Biodiversity Offset Strategy, as described in the EA, summarised in Table 8 and shown conceptually in the figure in Appendix 5, to the satisfaction of the Director-General.

Table 8: Biodiversity Offset Strategy

Area	Offset Type	Minimum Size (ha)
Offset Area	Existing vegetation to be enhanced	142.6 ha
TOTAL		142.6

Long Term Security of Offsets

53. 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.

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.

Relocated Powerlines

54. The Proponent shall ensure that any relocation of existing powerlines on-site does not cause greater than minor environmental consequences within the Offset Area.

Rehabilitation Objectives

55. The Proponent shall rehabilitate the site to the satisfaction of the Director-General. 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.

Table 9: Rehabilitation Objectives

Feature	Objective
Site (as a whole)	Safe, stable & non-polluting.
Surface Infrastructure	To be decommissioned and removed, unless the Director-General agrees otherwise.
Benched Quarry Walls	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	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	Restore ecosystem function, including maintaining or establishing self-sustaining eco-systems comprised of: • native endemic species: and • a landform consistent with Figure 8 (Appendix 6) and the surrounding environment.

Progressive Rehabilitation

56. The Proponent shall rehabilitate the site progressively, that is, as soon as reasonably practicable following disturbance. All reasonable and feasible measures must be taken to minimise the total area exposed for dust generation at any time. Interim rehabilitation strategies shall be employed when areas prone to dust generation cannot yet be permanently rehabilitated.

Landscape Management Plan

- 57. The Proponent shall prepare and implement a Landscape Management Plan for the project to the satisfaction of the Director-General. This plan must:
 - (a) be prepared in consultation with DRE, DPI and Council;
 - (b) be submitted to the Director-General for approval prior within 12 months of the date of this approval;
 - 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:
 - manage remnant vegetation and habitat on site;
 - implement the Biodiversity Offset Strategy; and
 - ensure compliance with the rehabilitation objectives and progressive rehabilitation obligations in this approval;
 - include detailed performance and completion criteria for evaluating the performance of the Biodiversity Offset Strategy and the rehabilitation of the site, 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:

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- ensuring compliance with the rehabilitation objectives and progressive rehabilitation obligations in this approval;
- enhancing the quality of remnant vegetation and fauna habitat;
- restoring native endemic vegetation and fauna habitat within the biodiversity offset areas and rehabilitation area;
- 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 Tetratheca juncea population;
- 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;
- (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
- include details of who would be responsible for monitoring, reviewing, and implementing the plan.

Conservation & Rehabilitation Bond

- 58. 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:
 - (a) calculating the cost of implementing the Biodiversity Offset Strategy over the next 3
 years;
 - (b) calculating the cost of rehabilitating 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 Director-General.

Notes:

- If capital and other expenditure required by the Landscape Management Plan is largely complete, the Director-General may waive the requirement for lodgement of a bond in respect of the remaining expenditure.
- If the Biodiversity Offset Strategy and rehabilitation of the site area are completed to the satisfaction of the Director-General, then the Director-General will release the bond. If the Biodiversity Offset Strategy and rehabilitation of the site are not completed to the satisfaction of the Director-General, then the Director-General will call in all or part of the bond, and arrange for the completion of the relevant works.
- 59. Within 3 months of each Independent Environmental Audit (see condition 9 of schedule 5), the Proponent shall review, and if necessary revise, the sum of the Conservation and Rehabilitation Bond to the satisfaction of the Director-General. This review must consider the:
 - (a) effects of inflation:
 - (b) likely cost of implementing the Biodiversity Offset Strategy and rehabilitating the site (taking into account the likely surface disturbance over the next 3 years of the project); and
 - (c) performance of the implementation of the Biodiversity Offset Strategy and rehabilitation of the site to date.

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SCHEDULE 4 ADDITIONAL PROCEDURES

NOTIFICATION OF LANDOWNERS

- 1. As soon as practicable after obtaining monitoring results showing an:
 - exceedance of any relevant criteria in schedule 3, the Proponent shall notify affected landowners in writing of the exceedance, and provide regular monitoring results to each affected landowner until the project is again complying with the relevant criteria; and
 - an exceedance of the relevant air quality criteria in schedule 3, the proponent shall send a (b) copy of the NSW Health fact sheet entitled "Mine Dust and You" (as may be updated from time to time) to the affected landowners and/or existing tenants of the land.

INDEPENDENT REVIEW

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 Director-General in writing for an independent review of the impacts of the project on his/her land.

If the Director-General is satisfied that an independent review is warranted, then within 2 months of the Director-General's decision the Proponent shall:

- commission a suitably qualified, experienced and independent expert, whose appointment has been approved by the Director-General, to:
 - consult with the landowner to determine his/her concerns;
 - conduct monitoring to determine whether the project is complying with the relevant criteria in schedule 3; and
 - if the project is not complying with these criteria, then identify the measures that could be implemented to ensure compliance with the relevant criteria; and
- give the Director-General and landowner a copy of the independent review. (b)
- If the independent review determines that the project is complying with the relevant criteria in 3. schedule 3, then the Proponent may discontinue the independent review with the approval of the Director-General.

If the independent review determines that the project is not complying with the relevant criteria in schedule 3, then the Proponent shall:

- 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
- secure a written agreement with the landowner to allow exceedances of the relevant criteria, to the satisfaction of the Director-General.

SCHEDULE 5 ENVIRONMENTAL MANAGEMENT, REPORTING AND AUDITING

ENVIRONMENTAL MANAGEMENT

Environmental Management Strategy

- 1. The Proponent shall prepare and implement an Environmental Management Strategy for the project to the satisfaction of the Director-General. This strategy must:
 - (a) be submitted to the Director-General 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:
 - keep the local community and relevant agencies informed about the operation and environmental performance of the project;
 - receive, handle, respond to, and record complaints;
 - resolve any disputes that may arise during the course of the project;
 - respond to any non-compliance; and
 - · respond to emergencies; and
 - (f) include:
 - copies of any strategies, plans and programs approved under the conditions of this approval; and
 - a clear plan depicting all the monitoring required to be carried out under the conditions of this approval.

Adaptive Management

2. The Proponent shall assess and manage project-related risks to ensure that there are no exceedances of the criteria and/or performance measures in schedule 3. Any exceedance of these criteria and/or performance measures constitutes a breach of this approval and may be subject to penalty or offence provisions under the EP&A Act or EP&A Regulation.

Where any exceedance of these criteria and/or performance measures has occurred, the Proponent shall, at the earliest opportunity:

- (a) take all reasonable and feasible measures to ensure that the exceedance ceases and does not recur:
- (b) consider all reasonable and feasible options for remediation (where relevant) and submit a report to the Department describing those options and any preferred remediation measures or other course of action; and
- (c) implement remediation measures as directed by the Director-General, to the satisfaction of the Director-General.

Management Plan Requirements

- 3. The Proponent shall ensure that the Management Plans required under this approval are prepared in accordance with any relevant guidelines, and include:
 - (a) detailed baseline data;
 - (b) a description of:
 - the relevant statutory requirements (including any relevant approval, licence or lease conditions);
 - any relevant limits or performance measures/criteria; and
 - the specific performance indicators that are proposed to be used to judge the performance of, or guide the implementation of, the project or any management measures:
 - (c) a description of the measures that would be implemented to comply with the relevant statutory requirements, limits, or performance measures/criteria;
 - (d) a program to monitor and report on the:
 - impacts and environmental performance of the project; and
 - effectiveness of any management measures (see (c) above);

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- (e) a contingency plan to manage any unpredicted impacts and their consequences;
- a program to investigate and implement ways to improve the environmental performance of the project over time;
- (g) a protocol for managing and reporting any:
 - incidents;
 - complaints;
 - non-compliances with statutory requirements; and
 - exceedances of the impact assessment criteria and/or performance criteria; and
- (h) a protocol for periodic review of the plan.

Note: The Director-General may waive some of these requirements if they are unnecessary or unwarranted for particular management plans.

Annual Review

- 4. By the end of March each year, the Proponent shall review the environmental performance of the project to the satisfaction of the Director-General. This review must:
 - (a) describe the development (including rehabilitation) that was carried out in the previous calendar year, and the development that is proposed to be carried out over the current calendar year;
 - include a comprehensive review of the monitoring results and complaints records of the project over the previous calendar year, which includes a comparison of these results against:
 - the relevant statutory requirements, limits or performance measures/criteria;
 - the monitoring results of previous years; and
 - the relevant predictions in the EA;
 - (c) identify any non-compliance over the last year, and describe what actions were (or are being) taken to ensure compliance;
 - (d) identify any trends in the monitoring data over the life of the project;
 - (e) identify any discrepancies between the predicted and actual impacts of the project, and analyse the potential cause of any significant discrepancies; and
 - (f) describe what measures will be implemented over the current calendar year to improve the environmental performance of the project.

Revision of Strategies, Plans & Programs

- 5. Within 3 months of the submission of an:
 - (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,

the Proponent shall review, and if necessary revise, the strategies, plans, and programs required under this approval to the satisfaction of the Director-General.

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.

Community Consultative Committee

6. The Proponent shall establish and operate a Community Consultative Committee (CCC) for the project to the satisfaction of the Director-General. This CCC must be operated in general accordance with the *Guidelines for Establishing and Operating Community Consultative Committees for Mining Projects* (Department of Planning, 2007, or its latest version), and be operating within four months of the date of this approval.

Notes.

- The CCC is an advisory committee. The Department and other relevant agencies are responsible for ensuring that the Proponent complies with this approval.
- In accordance with the guideline, the Committee should comprise an independent chair and appropriate representation from the Proponent, Council, recognised environmental groups and the local community.

REPORTING

Incident Reporting

7. 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. 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.

Regular Reporting

8. The Proponent shall 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.

INDEPENDENT ENVIRONMENTAL AUDIT

- 9. Within a year of the commencement of development on site under this approval, and every 3 years thereafter, unless the Director-General directs otherwise, the Proponent shall 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 Director-General;
 - (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.

Note: This audit team must be led by a suitably qualified auditor and include experts in any fields specified by the Director-General.

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

ACCESS TO INFORMATION

- 11. Within 4 months of the date of this approval, the Proponent shall:
 - (a) make the following information publicly available on its website:
 - the EA;
 - current statutory approvals for the project;
 - approved strategies, plans or programs;
 - a summary of the monitoring results of the project, which have been reported in accordance with the various plans and programs approved under the conditions of this approval:
 - a complaints register, updated on a quarterly basis;
 - minutes of CCC meetings;
 - copies of any annual reviews (over the last 5 years);
 - any independent environmental audit, and the Proponent's response to the recommendations in any audit; and
 - any other matter required by the Director-General; and
 - (b) keep this information up-to-date,

to the satisfaction of the Director-General.

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APPENDIX 1 PROJECT SITE & LAND REFERENCE PLAN

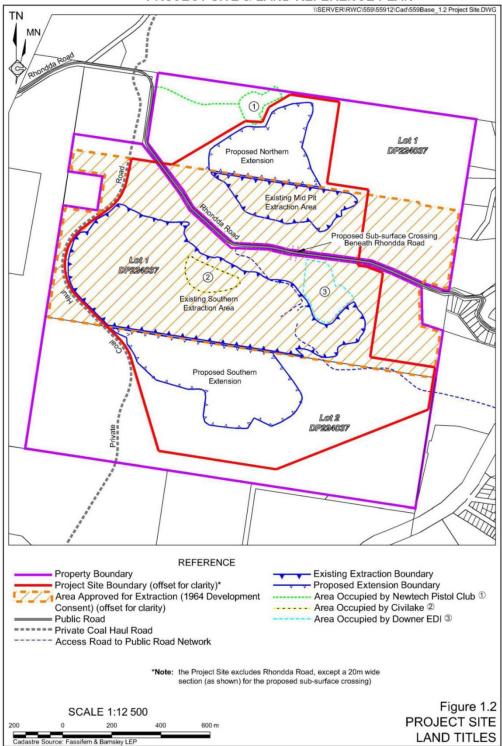


Figure 1: Property Descriptions (Lot and DP)

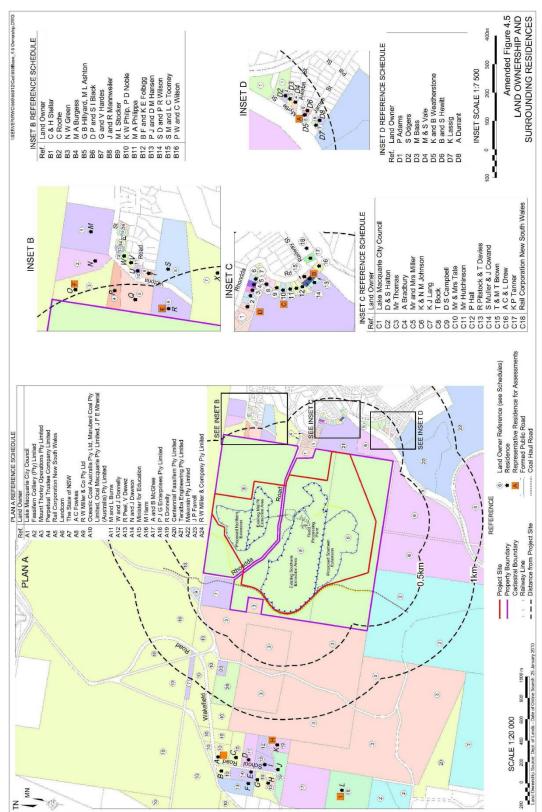


Figure 2: Site and Nearest Residential Receivers

Appendix 1

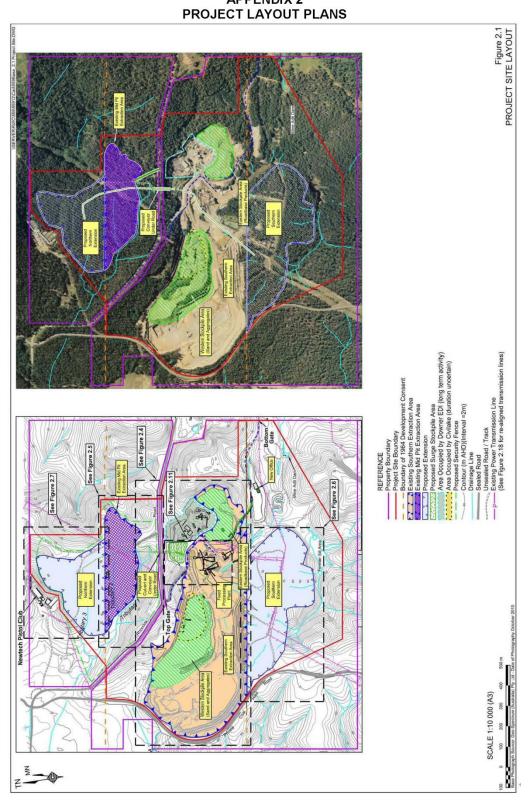


Figure 3: Extraction Area Dimensions and Site Features

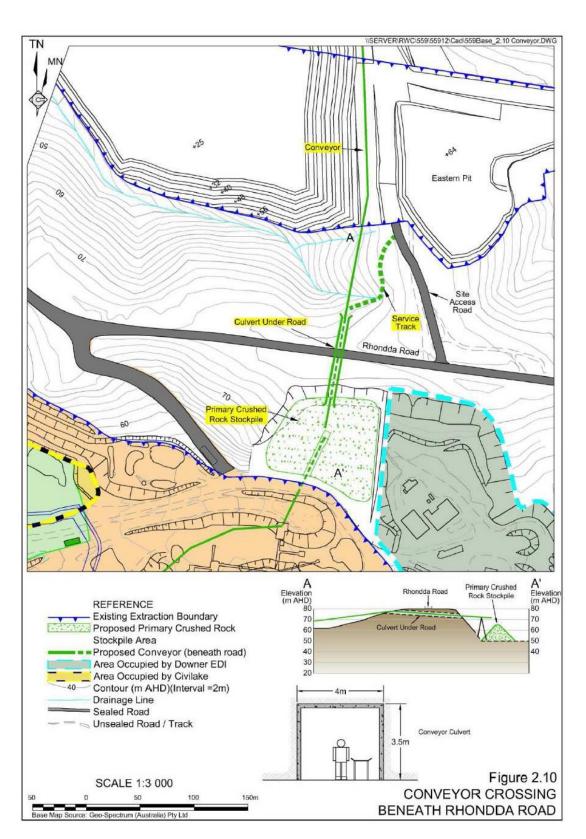


Figure 4: Conveyor crossing beneath Rhondda Road

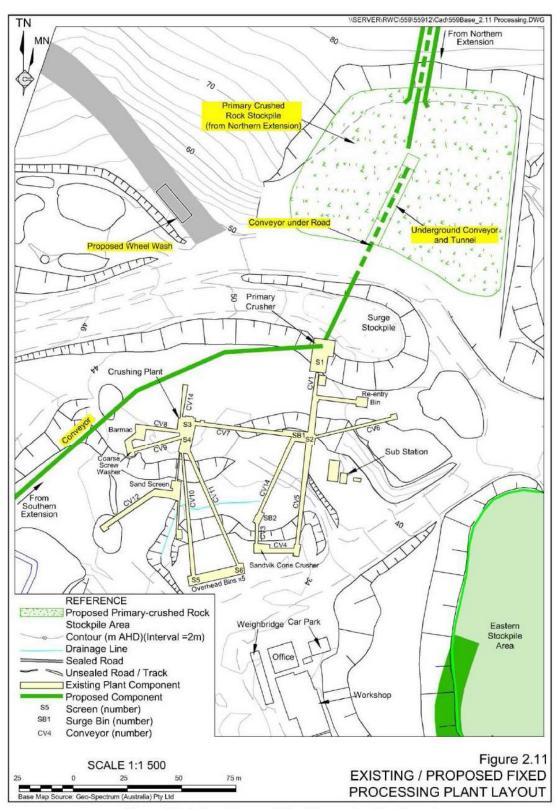


Figure 5: Existing / Proposed Fixed Processing Plant Layout

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APPENDIX 3 STATEMENT OF COMMITMENTS

Desired Outcome	Actio	n	Timing		
	1. Activities and Operations				
All approved activities are undertaken in the area(s) nominated on the approved plans and figures (unless moved slightly to avoid individual trees).	Clearl	y 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.		
		2. Operating Hours			
Management of operations in accordance with the approved operating hours. (Note: No activities and	2.1	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.		
operations are proposed on public holidays).	2.2	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.		
	2.3	Undertake product transportation activities 24hrs/day between 4:00am Monday to 6:00pm Saturday.	During operations.		
	2.4	Undertake all blasts between 10:00am and 4:00pm Monday to Friday.	During operations.		
	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.		
	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 Director-General and EPA within a reasonable period of the request(s).			
		3. Waste Management			
Minimisation of general waste creation and maximisation of recycling, wherever possible.	3.1	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.		
	3.2	Segregate waste into recyclables and non- recyclable materials for removal by a licensed contractor.	Ongoing.		
Minimisation of the potential risk of environmental impact	3.3	Organise the regular collection of industrial wastes.	Monthly or as needs basis.		
due to waste creation, storage and/or disposal.	3.4	Store waste oils and greases within the workshop area in either self-bunding containers or within suitably contained areas.	Ongoing.		

Page 2 of 11 Desired Outcome Action Timing 4. Security and Safety All members of the public are 4.1 Construct and maintain the perimeter fence around Prior to commencement of safe when near Teralba the Northern Extension. Quarry. clearing works. 4.2 Maintain lockable gates at all entry/exit points. Lock Ongoing. gates outside of operational hours. Erect security warning signs at strategic locations around and within the Project Site. The signs would 4.3 Ongoing identify the presence of earthmoving equipment, deep excavations and steep slopes. 4.4 Continue to induct employees in safe working Ongoing. practices and hold regular follow-up safety meetings and reviews. 4.5 Install bunds along the margins of all internal haul Ongoing. 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. 4.6 Ensure all trucks from the Project Site are driven in a Ongoing. safe and courteous manner in accordance with Metromix's Driver Code of Conduct. 5. Rehabilitation and Biodiversity Offset Management Create a stable final landform Retain 142.6ha of existing vegetation and remnant In perpetuity able to support a range of final understorey vegetation as a legally protected land uses focused upon biodiversity offset. ecological corridors and ongoing industrial uses. Maintenance of long term 5.2 Ensure that 142.6ha of retained vegetation within the By 30 June 2014. ecological values within the Biodiversity Offset is legally protected through a Final Biodiversity Offset Conservation Agreement pursuant to Section 69B of the National Parks and Wildlife Act 1974. 6. Groundwater Prevention of groundwater Securely store all hydrocarbon products within Ongoing contamination designated and bunded areas - see Action 16.11 Refuel and maintain all earthmoving equipment within 62 Ongoing designated areas - see Action 16.11. 6.3 Prepare a Groundwater Management Plan, including Ongoing trigger levels for actions - see Action 16.3 6.4 Prepare a Spill Management Plan to address Ongoing potentially significant hydrocarbon spills - see Action Continuous monitoring of 6.5 Within 6 months of Develop and implement a monitoring program as part groundwater throughout the life of the Soil and Water Management Plan the receipt of project of the Project. approval

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Desired Outcome	Actio	n	Timing			
6. Groundwater (Cont'd)						
Continuous monitoring of groundwater throughout the life of the Project. (Cont'd)	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).			
	6.7	Record flows/discharges from the Mine Adit Dam as well as quarry water usage.	Continuous.			
	6.8	Review monitoring results to identify trends which may indicate impacts and allow mitigation measures to be implemented, if required.	Annually.			
	6.9	Ensure all monitoring data is incorporated into each Annual Environment Management Report for the Teralba Quarry.	Annually.			
		7. Surface Water				
Maintenance of surface water quality.	7.1	Conduct site clearing activities in accordance with the Blue Book (Landcom, 2004) guidelines for erosion and sediment control.	Ongoing.			
	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.			
	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.			
	7.4	Ensuring any off-site discharge is monitored and reported in accordance with Environment Protection Licence 536.	As Required.			
	7.5	Conduct site clearing activities in accordance with the Blue Book (Landcom, 2004) guidelines for erosion and sediment control.	Ongoing.			
	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.			
	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.			
	7.8	Ensuring any off-site discharge is monitored and reported in accordance with Environment Protection Licence 536.	As Required.			
Capture of sediment-laden water flows from project-related disturbance.	7.9	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.			
	7.10	Inspect all sediment dams and maintain as necessary (keep records).	Monthly or following rainfall exceeding 100mm in 2 days.			

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Desired Outcome	Action		Timing		
7. Surface Water (Cont'd)					
Capture of sediment-laden water flows from project-related disturbance. (Cont'd)	7.11	Remove accumulated sediment from sediment dams when storage capacity reduced by 25% - document activity in maintenance records.	Following routine inspection.		
Prevention of hydrocarbon contamination of water on the	7.12	Securely store all hydrocarbon products within designated and bunded areas.	Ongoing.		
Project Site.	7.13	Refuel all earthmoving equipment within designated areas (with spill control).	Ongoing.		
Separation of groundwater and surface water flows	7.14	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.		
		8. Terrestrial Flora and Fauna			
Minimisation of impacts on flora and fauna within the Project Site.	8.1	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.		
	8.2	Clearly define the <i>Tetratheca juncea</i> sub-populations to be retained.	For the life of the Project.		
	8.3	Continue the established rehabilitation practices in appropriate areas.	Ongoing.		
	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.		
	8.5	Transfer biomass directly from vegetation clearing operations to rehabilitation areas. If it is not possible to transfer directly, stockpile material.	Ongoing.		
	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.		
	8.7	Install species specific nesting boxes for fauna species displaced following clearing activities, re 20 boxes for microbats, 20 boxes for Little Lorikeets and 30 boxes for Sugar Gliders.	Prior to commencement of activities in the Northern Extension.		
9. Traffic and Transport					
Transport operations are undertaken with minimal impact on other road users and residents.	9.1	Limit laden quarry-related truck movement numbers through Teralba:	Ongoing.		
		9 per hour; and			
		 85 per day. 			
	9.2	Ensure that no product trucks from Teralba Quarry travel eastward through Teralba between 6:00pm and 6:00am.			

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Desired Outcome	Outcome Action				
9. Traffic and Transport (Cont'd)					
	9.3	Ensure all vehicles exiting the Project Site pass through a wheel-wash facility to remove dust generating material.	Prior to removal of product from within the extensions.		
	9.4	Provide a contribution to Lake Macquarie City Council during the ongoing life of the quarry if a suitable project approval is granted.	Quarterly.		
	9.5	Prepare, implement and enforce 'Drivers Code of Conduct' addressing:	Prepare within 4 months of receipt of		
		 times that trucks can operate, especially through Teralba 	project approval.		
		speed limits;			
		 duty of care to other drivers and pedestrians; 			
		 complaints procedure; 			
		covering loads; and			
		 avoidance of exhaust brakes. 			
Transport operations are undertaken with minimal impact on other road users and residents. (Cont'd)	9.6	Undertake all transport activities in accordance with the project approval and Environment Protection Licence 536.	Ongoing.		
	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.			
	9.8	Ensure that all project-related vehicles are regularly serviced to ensure engine efficiencies are maintained at a standard that limits truck noise.			
		10. Noise and Vibration			
The Project is designed to minimise and/or mitigate noise emissions received at	10.1	Ensure all mobile earthmoving equipment used on site is not fitted with high-frequency reversing alarms and is regularly serviced.	Ongoing.		
surrounding residences and other sensitive receivers.	10.2	Ensure all earthmoving equipment used on site (including temporary equipment) have sound power levels and frequency spectra consistent with those nominated in Section 6 of Spectrum Acoustics (2011).	When new or temporary equipment is brought to site.		
All activities are undertaken in such a manner as to reduce the noise level generated and minimise impacts on surrounding landholders and/or residents.	10.3	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.		
	10.4	Construct a 5m high bund on the eastern edge of the Mid Pit Extraction Area.	During Mid Pit Extraction operations.		

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Desired Outcome	Actio	n	Timing		
10. Noise and Vibration (Cont'd)					
All activities are undertaken in such a manner as to reduce	10.5	Limit transportation noise by ensuring: — all transport vehicles comply with the RTA's noise	Ongoing		
the noise level generated and minimise impacts on surrounding landholders and/or residents. (Cont'd)		limits at all times; — only trucks fitted with airbag suspension be used	Ongoing		
(3011.4)		to transport products from the quarry between 10:00pm and 6:00am; and	Ongoing		
		 drivers comply with Code of Conduct. 	Ongoing		
	10.6	Commission a noise monitoring program that comprises:	Within the first 3 months of		
		 attended noise monitoring for the Southern and Northern Extensions; and 	operations in the Southern and Northern Extensions		
		 General noise monitoring. 	Biannually for the first year of operation in the Southern and Northern Extensions, and further monitoring when substantiated complaints are filed.		
	10.7	Include a summary of all noise monitoring results in the AEMR.	Annually.		
	10.8	Ensure all trucks departing the Project Site via the bottom gate travel at speeds <15km/hr.	Ongoing.		
	10.9	Review blast designs and modify, if required.	When blasting within 500m of any residence.		
		11. Air Quality			
Site activities are undertaken	11.1	Minimise clearing ahead of extraction activities	Ongoing.		
without exceeding DECCW air quality criteria or goals.	11.2	Minimise the construction of minor roads and access tracks for soil stripping, extraction operations and rehabilitation.	Ongoing.		
	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.		
	11.4	Stockpile material in sheltered locations away from sensitive receptors	Ongoing.		
	11.5	Shield and/or suppress dust on conveyors and transfer points.	Ongoing.		

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Desired Outcome	Action	1	Timing
		11. Air Quality (Cont'd)	
Site activities are undertaken	11.6	Limit internal road dust lift off by:	Ongoing.
without exceeding DECCW air quality criteria or goals. (Cont'd)		 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. 	
	11.7	$\label{thm:minimise} \mbox{ Minimise dump heights from trucks, front-end loaders and conveyors.}$	Ongoing.
	11.8	Schedule blasts so that they do not occur during high wind situations.	Ongoing.
	11.9	Cease or modify activities on dry windy days when dust plumes are visible.	Ongoing.
	11.10	Water exposed areas not covered by gravel under dry and windy conditions when dust plumes are visible.	Ongoing.
	11.11	Adopt a complaints management system where all complaints are dealt with through investigation and implementation of corrective treatments.	Ongoing.
	11.12	Minimise truck queuing, unnecessary idling of trucks and unnecessary trips through logistical planning, where possible.	Ongoing.
	11.13	Ensure the on-site wheel wash reduces mud tracking along Railway Street.	Ongoing.
	11.14	Remove any mud tracking on Rhondda Road as a result of quarry movements.	Ongoing.
	11.15	Prepare and implement a Dust Management Plan for the quarry.	Within 4 months of the receipt of project approval.
Reduce the impact of Greenhouse Gas emissions from project related activities.	11.16	Minimise the impacts of greenhouse gases relating from diesel consumption by:	Ongoing.
		 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. 	

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Desired Outcome	Action	1	Timing		
11. Air Quality (Cont'd)					
Record and monitor the local environment regarding dust	11.17	Minimise the impacts of greenhouse gases relating from electricity consumption by:	Ongoing.		
impacts.		 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. 			
	11.18	Continue to monitor dust impacts through;	Ongoing.		
		 the existing five deposited dust gauges; and 			
		 on-site meteorological monitoring to record relevant parameters. 			
		12. Visibility			
Reduce the impact of the Project on the visual amenity of private and public vantage	12.1	Ensure all vegetation is maintained outside the Southern and Northern Extensions to provide long term shielding.	Ongoing.		
points.	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).		
	12.3	Progressively establish vegetation on extraction faces at 50mAHD and above in western section of the Southern Extension.	Years 3 to 11 (approx).		
	12.4	Advance extraction in the eastern section of the Southern Extension in strips parallel to north-south faces.	Years 22 to 30 (approx).		
	12.5	Include Annual photographs of the progressive rehabilitation of quarry benches in each AEMR.			
		13. Heritage			
Provide appropriate protection to existing and future identified Aboriginal artefacts.	13.1	Halt all works in the immediate area if cultural objects are found and contact a suitably qualified archaeologist and Aboriginal community representative.	Ongoing.		
	13.2	Halt all works in the immediate area if human remains are found and contact NSW Police, Aboriginal community representative and OEH.	Ongoing.		
	13.3	Maintain reasonable efforts to avoid impacts to Aboriginal cultural heritage values at all stages of the development works	Ongoing.		
	13.4	Invite representatives of Local Aboriginal stakeholders to monitor initial ground disturbance activities.	Prior to soil stripping campaigns.		
	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.		

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Desired Outcome	Actio	n	Timing		
13. Heritage (Cont'd)					
Provide appropriate protection to any non-Aboriginal artefacts identified in operational areas.	13.6	Halt all works in the immediate area if any non- Aboriginal artefacts are found and notify the Heritage Council of NSW.	Ongoing		
		14. Soils			
Prevent excessive soil deterioration during stripping and transportation.	14.1	Undertake soil stripping within slightly moist condition and avoid excessively wet or dry conditions.	During soil stripping operations.		
	14.2	Place stripped soil directly onto reshaped overburden or dedicated stockpile area.	During soil stripping operations.		
	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.		
Retention of soil viability until use in rehabilitation.	14.4	Leave the surface of soil stockpiles in as coarsely structured a condition as possible in order to promote infiltration and minimise erosion until vegetation is established.	Immediately following stockpile construction.		
	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.		
	14.6	Seed soil stockpiles with sterile cover crop (and limited fertiliser) as soon as possible where stockpiling is planned.	Immediately following stockpile construction.		
	14.7	Maintain an inventory of available soil to ensure adequate topsoil materials are available for planned rehabilitation activities.	Ongoing.		
	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.		
Achieve a good soil cover for long term rehabilitation.	14.9	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.		
15. Bushfire Hazard					
Avoidance of any fires on site, particularly in native vegetation.	15.1	Adopt appropriate controls during re-fuelling.	Ongoing.		
	15.2	Ensure fire extinguishers are fitted to all site vehicles.	Ongoing.		
	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.		

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Desired Outcome	Action		Timing
Desired Gateome		Occumentation and Further Approvals	riiiiig
To provide site personnel with the necessary guidance on the expectations of	16.1	Environmental Management Strategy.	Within 6 months of the receipt of project approval.
Metromix management and the NSW Government and LMCC to achieve the required level of	16.2	Environmental Management Plan (EMP). Focus on the next 5 years.	Within 6 months of receipt of project approval.
environmental performance.	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.
	16.4	Noise and Blast Management Plan. (Incorporating a blast and noise monitoring component.)	Within 4 months of the receipt of project approval.
	16.5	Air Quality Management Plan. (Incorporating an air quality monitoring component.)	Within 4 months of receipt of project approval.
	16.6	Transport Management Plan.	Within 4 months of receipt of project approval.
	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.
	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.
	16.9	Heritage Management Plan.	Within 4 months of the receipt of project approval.
	16.10	Annual Environmental Management Report (AEMR).	Annually (by 31 March each year covering the previous calendar month).
	16.11	Hydrocarbon Management Plan. (Incorporating the storage and use of fuel and spill management.)	Within 6 months of receipt of approval.
	16.12	Annual Production Statistics to the DTIRIS (Division of Resources and Energy).	Annually (by 31 July).
	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.

Teralba Quarry

Desired Outcome	Action	Timing
16	. Documentation and Further Approvals (Cont'd)	
Ensure planning is undertaken sufficiently ahead of quarry closure to achieve a smooth transition to the subsequent land uses		3 years prior to cessation of extraction north of Rhondda Road (approximately 2031) and south of Rhondda Road (approximately 2039).

APPENDIX 4 TRANSPORT ROUTES

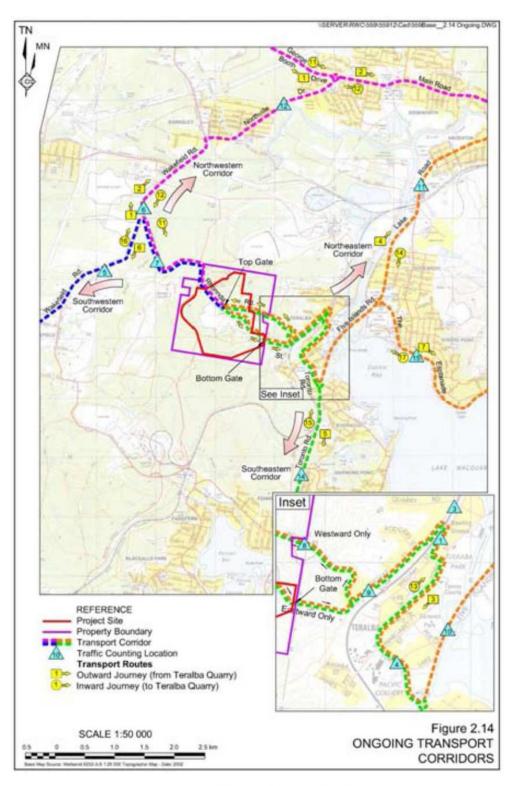


Figure 6: Transport Routes

Appendix 1

APPENDIX 5

BIODIVERSITY OFFSET STRATEGY

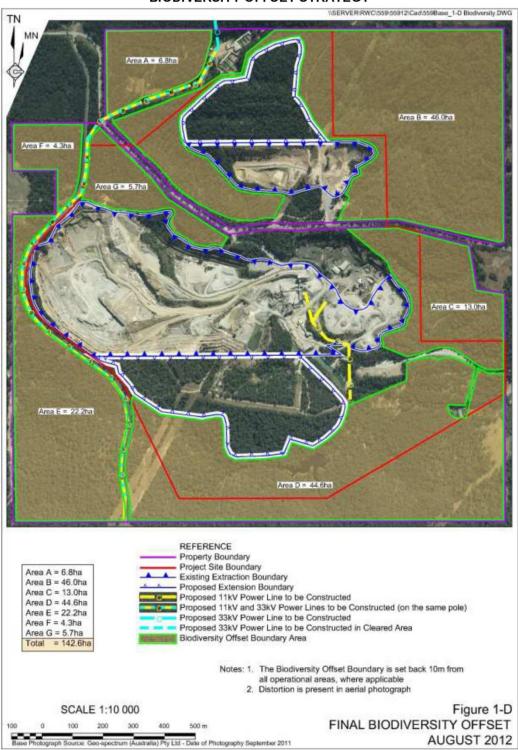


Figure 7: Biodiversity Offset

APPENDIX 6

REHABILITATION STRATEGY

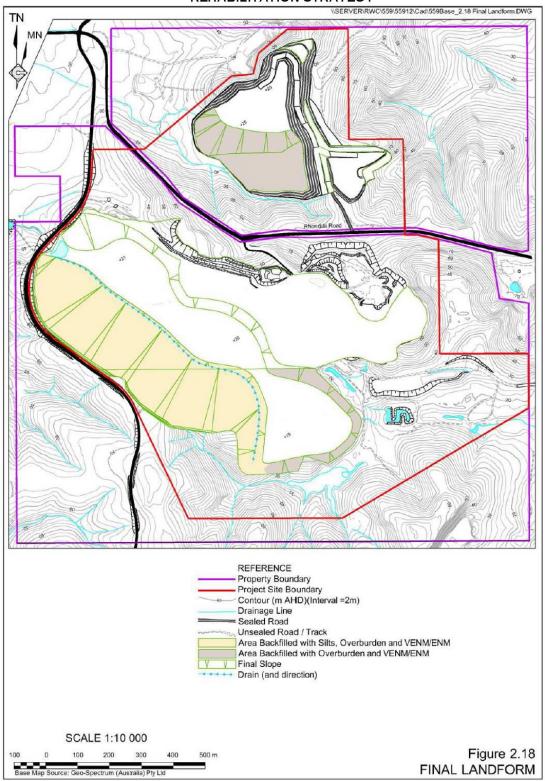


Figure 8: Indicative Final Landform