

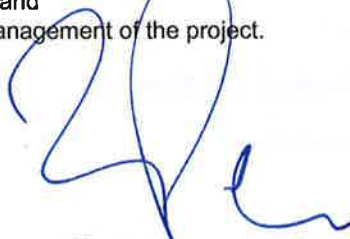
Project Approval

Section 75J of the *Environmental Planning & 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.



Richard Pearson
Deputy Director-General
Development Assessment and Systems Performance

Sydney

7 September

2012

SCHEDULE 1

Application Number:	07_0122
Proponent:	Mudgee Stone Company Pty Ltd
Approval Authority:	Minister for Planning and Infrastructure
Land:	Lot 2 DP 1089826
Project:	The Oberon White Granite Quarry Project

TABLE OF CONTENTS

DEFINITIONS	3
ADMINISTRATIVE CONDITIONS	4
Obligation To Minimise Harm To The Environment	4
Terms Of Approval	4
Limits On Approval	4
Surrender Of Existing Development Consent	4
Structural Adequacy	4
Demolition	5
Protection Of Public Infrastructure	5
Operation Of Plant And Equipment	5
Staged Submission Of Any Strategy, Plan Or Program	5
Notification Requirement	5
Production Data	5
Council Contributions	5
ENVIRONMENTAL PERFORMANCE CONDITIONS	6
Identification Of Boundaries	6
Noise	6
Blasting	7
Air Quality	9
Meteorological Monitoring	10
Soil And Water	10
Visual	11
Transport	12
Parking	12
Transport Management Plan	12
Waste	13
Landscape	13
ADDITIONAL PROCEDURES	16
Notification Of Landowners	16
Independent Review	16
ENVIRONMENTAL MANAGEMENT, REPORTING AND AUDITING	17
Environmental Management	17
Reporting	18
Independent Environmental Audit	19
Access To Information	19
APPENDIX 1 - PROJECT LAYOUT PLANS	20
APPENDIX 2 – SURROUNDING LANDOWNERS AND RESIDENCES	26
APPENDIX 3 – INDICATIVE FINAL LANDFORM AND BIODIVERSITY OFFSETS	27
APPENDIX 4 – STATEMENT OF COMMITMENTS	28

DEFINITIONS

Annual review	The review required by condition 4 of schedule 5
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 3
CCC	Community Consultative Committee
Conditions of this approval	Conditions contained in schedules 2 to 5 inclusive
Council	Oberon Council
CPI	Australian Bureau of Statistics Consumer Price Index
Department	Department of Planning and Infrastructure
Director-General	Director-General of the Department, or delegate
DRE	Division of Resources and Energy within the Department of Trade and Investment, Regional Services and Infrastructure
EA	The Environmental Assessment titled <i>Oberon White Granite Quarry</i> dated November 2010, as modified by the responses to submissions dated June 2011
EPA	Environment Protection Authority
EP&A Act	<i>Environmental Planning and Assessment Act 1979</i>
EP&A Regulation	<i>Environmental Planning and Assessment Regulation 2000</i>
EPL	Environment Protection Licence issued under the <i>POEO Act</i>
Feasible	Feasible relates to engineering considerations and what is practical to build or implement
Land	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
Quarry operations	Includes the removal of overburden and extraction, processing, handling, storage and transportation of extractive material
Minister	Minister for Planning and Infrastructure, or delegate
Negligible	Small and unimportant, such as to be not worth considering
NOW	NSW Office of Water, within the Department of Primary Industries
OEH	Office of Environment and Heritage, within the Department of Premier and Cabinet
POEO Act	<i>Protection of the Environment Operations Act 1997</i>
Privately-owned land	Land that is not owned by a public agency or the Proponent (or its subsidiary)
Project	The project described in the EA
Proponent	Mudgee Stone Company Pty Ltd, or any other person who seeks to carry out the development approved under this approval
Public infrastructure	Linear and related infrastructure that provides services to the general public, such as roads, railways, water supply, drainage, sewerage, gas supply, electricity, telephone, telecommunications, etc.
Reasonable	Reasonable relates to the application of judgement in arriving at a 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, and ensure it is safe, stable and non-polluting
RMS	Roads and Maritime Services
Site	The land listed in schedule 1
Site establishment phase	A period of 24 weeks starting from the commencement of development under this approval
Statement of Commitments	The Proponent's commitments in Appendix 4
Truck	A vehicle with a Gross Vehicle Mass of 5 tonnes or more

SCHEDULE 2 ADMINISTRATIVE CONDITIONS

OBLIGATION TO MINIMISE HARM TO THE ENVIRONMENT

1. 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
- The Statement of Commitments is reproduced in Appendix 4.

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:
 - (a) any strategies, plans, programs, reviews, audits, reports or correspondence that are submitted in accordance with this approval; and
 - (b) the implementation of any actions or measures contained in these documents.

LIMITS ON APPROVAL

Quarry Operations

5. The Proponent may carry out quarry operations on the site until 31 December 2042.

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 quarry operations until the rehabilitation of the site and those undertakings have been carried out to a satisfactory standard.

Extractive Material Extraction

6. The Proponent shall not carry out any development in the extraction area below a level of 1130 m AHD.

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:
 - (a) extract more than 250,000 tonnes of extractive materials from the site in any calendar year; or
 - (b) extract more than 5 million tonnes from the site over the life of the project.

Extractive Material Transport

8. The Proponent shall not transport more than:
 - (a) 250,000 tonnes of product from the site in any calendar year;
 - (b) 40 laden trucks from the site in a day; or
 - (c) 6 laden trucks from the site in an hour.

SURRENDER OF EXISTING DEVELOPMENT CONSENT

9. By the end of December 2013, or as otherwise agreed by the Director General, the Proponent shall surrender the existing development consent (DA 126/03) for the quarry in accordance with section 104A of the EP&A Act.

Prior to the surrender of this consent, the conditions of this approval shall prevail to the extent of any inconsistency with the conditions of the development consent.

STRUCTURAL ADEQUACY

10. The Proponent shall ensure that all new buildings and structures, and any alterations or additions to existing buildings and structures, are constructed in accordance with the relevant requirements of the BCA.

Notes:

- Under Part 4A of the EP&A Act, the Proponent is required to obtain construction and occupation certificates for the proposed building works; and
- Part 8 of the EP&A Regulation sets out the requirements for the certification of the project.

DEMOLITION

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

PROTECTION OF PUBLIC INFRASTRUCTURE

12. 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.

OPERATION OF PLANT AND EQUIPMENT

13. 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

14. 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.

NOTIFICATION REQUIREMENT

15. Prior to carrying out any development under this approval, the Proponent shall:
- (a) obtain approval for all the necessary management plans, strategies and programs; and
 - (b) give the Director-General written notice of the commencement date.

PRODUCTION DATA

16. 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.

COUNCIL CONTRIBUTIONS

17. Prior to carrying out any development on the site under this approval, the Proponent shall pay the contributions outlined in Table 1 to Council. These contributions are indexed to the 2010/2011 financial year, and must be increased in accordance with annual CPI.

Table 1 - Council Contributions

Public Infrastructure or Service	Contributions
Public open space	\$222
Emergency services	\$266
Rural roads	\$4,333
Community facilities	\$222

18. The Proponent shall pay Council an annual contribution of 10 cents per tonne of extractive material exported from the site. This contribution must be paid at the end of each calendar year, and increased over the life of the project in accordance with annual CPI.
19. The Proponent shall pay Council an annual contribution of \$1000 for administration and environmental monitoring. This contribution must be paid at the end of each calendar year, and increased over the life of the project in accordance with annual CPI.

SCHEDULE 3 ENVIRONMENTAL PERFORMANCE CONDITIONS

IDENTIFICATION OF BOUNDARIES

1. Prior to carrying out any development on the site under this approval, the Proponent shall:
 - (a) engage a registered surveyor to mark out the boundaries of the approved limits of extraction; and
 - (b) submit a survey plan of these boundaries to the Director-General.
2. During the project, 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.

NOISE

Hours of Operation

3. The Proponent shall comply with the restrictions in Table 2. These restrictions do not apply to activities that are inaudible at residential receivers.

Table 2 – Hours of operation

Activity	Permissible Hours
<ul style="list-style-type: none"> Site establishment Construction activities Blasting and small charge popping Dozer operations 	<ul style="list-style-type: none"> 9am to 5pm Monday to Friday (except public holidays).
Vegetation clearing campaigns	<ul style="list-style-type: none"> 9am to 5pm Monday to Friday (except public holidays), for up to 2 weeks per annum.
Drilling	<ul style="list-style-type: none"> 8am to 5pm Monday to Friday (except public holidays).
Rock hammering	<ul style="list-style-type: none"> 10am to 12pm Monday to Friday; and At no time on Saturday, Sunday or public holidays.
<ul style="list-style-type: none"> Processing; Heavy vehicle transportation (arrival at or departure from the site) 	<ul style="list-style-type: none"> 7am to 6pm Monday to Friday (except public holidays); 8am to 6pm Saturday; and At no time on Sunday or public holidays.

Noise Limits – Site Establishment and Vegetation Clearing Campaigns

4. During the site establishment phase and vegetation clearing campaigns, the Proponent shall ensure that the noise generated on site does not exceed 42dB(a) $L_{Aeq}(15min)$ at any residence on privately-owned land.

Note: The site establishment phase is defined as the period 24 weeks from the date work commences.

5. At least 2 weeks prior to any vegetation clearing campaign, the Proponent shall notify in writing all the residents that are likely to experience noise levels that are greater than the criteria in Table 3 during the campaign.

Noise Limits – Operations

6. The Proponent shall ensure that the noise generated by the project does not exceed the criteria in Table 3 at any residence on privately-owned land.

Table 3 – Noise limits

Land	Operations $L_{Aeq}(15 min)$ dB(A)
5	42
6	37
2	37
All other privately-owned land	35

Notes:

- To interpret the land referred to in Table 3, see the applicable figure in Appendix 2; and
- 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 an agreement with the owner/s of the relevant residence to generate higher noise levels, and the Proponent has advised the Department in writing of the terms of this agreement.

Additional Noise Mitigation Upon Request

7. Upon receiving a written request from the owner of any residence on property 5, the Proponent shall implement additional noise mitigation measures (such as double glazing, insulation, or air conditioning) at the residence in consultation with the owner. These measures must be reasonable and feasible and directed towards reducing the noise impacts of the project on the residence.

If within 3 months of receiving this request from the owner, the Proponent and the owner cannot agree on the measures to be implemented, or there is a dispute about the implementation of these measures, then either party may refer the matter to the Director-General for resolution.

Note: To identify property no. 5, see the figure in Appendix 2.

Operating Conditions

8. The Proponent shall:
- (a) implement best management practice, including all reasonable and feasible noise mitigation measures, to minimise the construction, operational, low frequency and traffic noise of the project;
 - (b) only operate rock hammers on the floor of the quarry pit and within 20 metres of the extraction face, and at no other location on the site;
 - (c) not operate rock hammers and drill rigs on the site concurrently;
 - (d) ensure that a six metre high acoustic bund is installed and maintained along the southern boundary of the extraction, and that the bund is in place within 3 months of the commencement of development on the site under this approval;
 - (e) maintain the effectiveness of noise suppression equipment on plant at all times and ensure that defective plant is not used operationally until fully repaired;
 - (f) ensure that noise attenuated plant is deployed preferentially in locations relevant to sensitive receivers; and
 - (g) minimise the noise impacts of the project during meteorological conditions when the noise limits in this approval do not apply,
- to the satisfaction of the Director-General.

Noise Management Plan

9. 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 prepared in consultation with the EPA by a suitably qualified and experienced person whose appointment has been approved by the Director-General;
 - (b) describe the measures that would be implemented to ensure:
 - best management practice is being employed;
 - the noise impacts of the project are minimised during vegetation clearing campaigns;
 - the noise impacts of the project are minimised during 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:
 - evaluates and reports on:
 - the performance of the project; and
 - the effectiveness of the noise management system on site; and
 - includes a protocol for determining exceedances of the relevant conditions of this approval.

The Proponent shall not carry out any development on the site under this approval before this plan has been approved by the Director-General.

BLASTING

Blasting Criteria

10. The Proponent shall ensure that blasting on the site does not cause exceedances of the criteria in Table 4. However, these criteria do not apply if the Proponent has a written agreement with the relevant landowner, and has advised the Department in writing of the terms of this agreement.

Table 4 - Blasting criteria

Location	Airblast Overpressure (dB(Lin Peak))	Ground Vibration (mm/s)	Allowable Exceedance
Residence on privately-owned land	120	10	0%
	115	5	5% of total blasts over a period of 12 months

Property Inspections

11. If the Proponent receives a written request from the owner of any privately-owned land within two kilometres of the quarry pit for a property inspection to establish the baseline condition of any buildings and/ or structures on his/her land, then within two months of receiving the request the Proponent shall:
- commission a suitably qualified, experienced and independent person, whose appointment is acceptable to both parties to:
 - establish the baseline condition of any buildings and other structures on the land; and
 - identify measures that should be implemented to minimise the potential blasting impacts of the project on these buildings and/ or structures; and
 - give the landowner a copy of the property inspection report.

If there is a dispute over the selection of the suitably qualified, experienced and independent person, or the Proponent or the landowner disagrees with the findings of the property inspection report, either party may refer the matter to the Director-General for resolution.

Property Investigations

12. If the owner of any privately-owned land claims that buildings and/ or structures on his/ her land have been damaged as a result of blasting on the site, then within two months of receiving this claim the Proponent shall:
- commission a suitably qualified, experienced and independent person, whose appointment is acceptable to both parties to investigate the claim; and
 - 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 damage to the satisfaction of the Director-General.

If there is a dispute over the selection of the suitably qualified, experienced and independent person, or the Proponent or the landowner disagrees with the findings of the independent property investigation, either party may refer the matter to the Director-General for resolution.

Operating Conditions

13. During operation of the project, the Proponent shall:
- 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 from any blasting; and
 - comply with the blasting criteria in condition 10 of schedule 3; and
 - 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.
14. The Proponent shall not undertake blasting on site within 500 metres of any land outside the site that is 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

15. The Proponent shall prepare and implement a Blast Management Plan for the project to the satisfaction of the Director-General. This plan must:
- be prepared in consultation with the EPA by suitably qualified and experienced person whose appointment has been approved by the Director-General;
 - describe the measures that would be implemented to ensure:

- best management practice is being employed;
 - compliance with the relevant conditions of this approval;
- (c) include a monitoring program for evaluating and reporting on the performance of the project, including:
- compliance with the applicable criteria; and
 - minimising the fume emissions from the site.

The Proponent shall not carry out any blasting on the site under this approval before this plan has been approved by the Director-General.

AIR QUALITY

Air Quality Criteria

16. 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 listed in Table 5, Table 6 and Table 7 at any residence on privately-owned land or on more than 25 per cent of any privately-owned land.

Table 5 - Long term impact assessment criteria for particulate matter

Pollutant	Averaging Period	^d Criterion
Total suspended particulate (TSP) matter	Annual	^a 90 µg/m ³
Particulate matter < 10 µm (PM ₁₀)	Annual	^a 30 µg/m ³

Table 6 - Short term impact assessment criterion for particulate matter

Pollutant	Averaging Period	^d Criterion
Particulate matter < 10 µm (PM ₁₀)	24 hour	^a 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:

- ^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; and
- ^d Excludes extraordinary events such as bushfires, prescribed burning, dust storms, sea fog, fire incidents or any other activity agreed by the Director-General.

Greenhouse Gas Emissions

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

Operating Conditions

18. The Proponent shall:
- (a) implement best management practice to minimise the off-site fume and dust emissions of the project;
 - (b) minimise the air quality impacts of the project during adverse meteorological conditions and extraordinary events (see note d in condition 16 above);
 - (c) minimise any visible off-site air pollution; and
 - (d) minimise the surface disturbance of the site generated by the project, to the satisfaction of the Director-General.

Air Quality Management Plan

19. 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 the EPA by a suitably qualified and experienced person whose appointment has been approved by the Director-General;
 - (b) describe the measures that would be implemented to ensure:

- best management practice is being employed;
 - the air quality impacts of the project are minimised during adverse meteorological conditions and extraordinary events; and
 - compliance with the relevant conditions of this approval;
- (c) describe the proposed air quality management system;
- (d) include an monitoring program monitoring program that:
- evaluates and reports on:
 - the performance of the project; and
 - the effectiveness of the noise management system on site; and
 - includes a protocol for determining exceedances of the relevant conditions of this approval.

The Proponent shall not carry out any development on the site under this approval before this plan has been approved by the Director-General.

METEOROLOGICAL MONITORING

20. During the life of the project, the Proponent shall ensure that there is a suitable meteorological station 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.

SOIL AND WATER

Note: The Proponent is required to obtain the necessary water licences for the project under the Water Act 1912 and/or Water Management Act 2000.

Surface Water Supply

21. The Proponent shall ensure that it has sufficient water for all stages of the project, and if necessary, adjust the scale of quarry operations to match its available water supply.

Surface Water Discharges

22. The Proponent shall ensure that all surface water discharges from the site comply with:
- (a) section 120 of the POEO Act; or
 - (b) the discharge limits (both volume and quality) set for the project in any applicable EPL.

Compensatory Water Supply

23. The Proponent shall provide a compensatory water supply to the owner of any privately-owned land whose water supply is adversely impacted (other than an impact that is negligible) as a result of the project, in consultation with NOW, and to the satisfaction of the Director-General.

The compensatory water supply measures must provide an alternative long-term supply of water that is equivalent to the loss attributed to the project. Equivalent water supply should be provided (at least on an interim basis) within 24 hours of the loss being identified, unless otherwise agreed with the landowner.

If the Proponent and the affected landowner cannot agree on the measures to be implemented, or there is a dispute about the implementation of these measures, then either party may refer the matter to the Director-General for resolution.

If the Proponent is unable to provide an alternative long-term supply of water, then the Proponent shall provide alternative compensation to the satisfaction of the Director-General.

Note: The Water Management Plan prepared in accordance with condition 25 shall describe the procedures for assessing the impacts of the projects on water entitlements on privately owned land and the provision of compensatory water supply.

On-Site Sewage Management

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

Storage of Chemicals & Petroleum Products

25. The Proponent shall ensure all chemicals and/or petroleum products on site are stored in accordance with Australian Standard AS1940-2004, *The Storage and Handling of Flammable and Combustible Liquids*, and in appropriately bunded areas with impervious flooring and of sufficient capacity to contain 110% of the largest container stored within the bund. The flooring and bund(s) shall be designed in accordance with:
- (a) the requirements of relevant Australian Standards; and
 - (b) the EPA'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 the EPA and NOW by suitably qualified and experienced persons whose appointment has been approved by the Director-General..

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:
 - sources and security of water supply, including contingency planning for future reporting periods;
 - water use on site; and
 - reporting procedures, including comparisons of the site water balance each calendar year; and
 - describes the measures that would be implemented to minimise clean water use on site;
- (b) Surface Water Management Plan, that includes:
 - detailed baseline data on surface water flows and quality in the water-bodies that could be affected by the project;
 - a detailed description of the surface water management system on site, including the:
 - clean water diversion systems;
 - erosion and sediment controls; and
 - water storages;
 - detailed plans, including design objectives and performance criteria, for:
 - the water storage dams;
 - reinstatement of drainage lines on the rehabilitated areas of the site;
 - control of water pollution from rehabilitated areas of the site;
 - performance criteria for the following, including trigger levels for investigating any potentially adverse impacts, for the following:
 - the water management system;
 - surface water quality of local waterways; and
 - ecosystem health of local waterways;
 - performance criteria for surface water quality attributes relevant to water quality impacts on biological diversity and aquatic ecological integrity, including salinity, heavy metals, sediment load, pH, hardness and biological oxygen demand;
 - a program to monitor
 - the effectiveness of the water management system;
 - surface water flows and quality in local water ways; and
 - ecosystem health of local water ways;
 - 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
- (c) Groundwater Management Plan, which includes:
 - detailed baseline data on groundwater levels, yield and quality in the area;
 - groundwater assessment criteria, including trigger levels for investigating any potentially adverse groundwater impacts;
 - a program to monitor:
 - groundwater inflows to the quarrying operations;
 - the impacts of the project on local alluvial aquifers; and
 - any groundwater bores and/or springs on privately-owned land that could be affected by the project;
 - a plan to respond to any exceedances of the groundwater assessment criteria.

The Proponent shall not carry out any development on the site under this approval before this plan has been approved by the Director-General.

VISUAL

Advertising

27. 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.

Operating Conditions

28. The Proponent shall:
- (a) minimise the visual impacts of the project;
 - (b) take all practicable measures to further mitigate off-site lighting impacts from the project; and
 - (c) ensure that all external lighting associated with project complies with *Australian Standard AS4282 (INT) 1995 – Control of Obtrusive Effects of Outdoor Lighting*,

Additional Visual Mitigation Measures

29. Upon receiving a written request from the owner of:
- residences 'O', 'P', 'Q', 'V' and 'W' marked on the figure in Appendix 2 ; and
 - the residence on the land marked '6' on the figure in Appendix 2 that was approved prior to the date of this approval,
- the Proponent shall implement visual mitigation measures (such as landscaping treatments or vegetation screens) on the land in consultation with the landowner.

These measures must be reasonable and feasible, and directed toward minimising the visibility of the project from the affected residence.

If within three months of receiving this request from the landowner, the Proponent and the landowner cannot agree on the measures to be implemented, or there is a dispute about the implementation of these measures, then either party may refer the matter to the Director-General for resolution.

Notes:

- The additional visual impact mitigation measures must be aimed at reducing the visibility of the quarrying operations on site from significantly affected residences, and are not required to be aimed at reducing the visibility of these operations from other locations on the affected properties; and*
- The additional visual impact mitigation measures do not necessarily have to be located on the property itself.*

TRANSPORT

Road Upgrades and Maintenance

30. The Proponent shall maintain the right of carriageway on the site to the satisfaction of the Director-General.
31. Prior to carrying out any development on the site under this approval, the Proponent shall:
- install reflector posts on Hampton Road; and
 - install give-way line markings and signage on Ferndale Road, to the satisfaction of Council.

Parking

32. The Proponent shall provide sufficient parking for all project-related traffic, in accordance with Council's parking code.

Operating Conditions

33. The Proponent shall ensure that:
- vehicles on site do not exceed a speed limit of 30 kilometres per hour;
 - all loaded vehicles entering or leaving the site have their loads covered;
 - all loaded vehicles leaving the site are cleaned of sand and other materials before they leave the site so they do not track dirt onto the public roads and
 - the transportation of all dangerous goods to or from the site is undertaken in strict accordance with the *Australian Code for the Transport of Dangerous Goods by Road and Rail*.

Monitoring of Product Transport

34. The Proponent shall:
- keep accurate records of the:
 - amount of quarry products transported from the site (on a monthly basis); and
 - the date and time of loaded truck movements from the site; and
 - publish these records on its website on a quarterly basis..

Transport Management Plan

35. The Proponent shall prepare and implement a Transport Management Plan for the project to the Director-General. This plan must:
- be submitted prepared in consultation with the RMS and Council,;
 - include a drivers' code of conduct for the project;
 - describe the measures that would be implemented to ensure:
 - establishing a CB radio communication protocol with the local bus companies, to improve driver awareness of quarry truck and school bus locations along haulage routes;
 - the drivers of project-related vehicles comply with the drivers' code of conduct for the project; and
 - compliance with the relevant conditions of this approval; and
 - include a program to monitor the effectiveness of the implementation of these measures.

The Proponent shall not carry out any development on the site under this approval before this plan has been approved by the Director-General.

WASTE

36. The Proponent shall:
- monitor the amount of waste generated by the project;
 - investigate ways to minimise waste generated by the project;
 - implement reasonable and feasible measures to minimise waste generated by the project;
 - ensure that all waste generated by the project is lawfully disposed of to an appropriate facility; and
 - report on waste management and minimisation in the annual review, to the satisfaction of the Director-General.

LANDSCAPE

Biodiversity Offset

37. The Proponent shall implement the biodiversity offset strategy for the project to the satisfaction of the Director-General. This strategy must include the 3.1 hectares of land shown in Appendix 2 as 'Potential Additional Biodiversity Offset'.
38. The Proponent shall ensure that the biodiversity offset strategy includes measures to create and/or enhance the habitat for threatened species that are known to occur on the site.

Note: Threatened species that are known to occur on the site are Scarlet Robin and Flame Robin.

Long Term Security of Offsets

39. By the end of December 2013, the Proponent shall make suitable arrangements to provide appropriate long-term security for the offset area in the biodiversity offset strategy to the satisfaction of the Director-General.

Pre-clearance Survey

40. Prior to the carrying out any development under this approval, the Proponent shall:
- commission a suitably qualified and experienced ecologist to carry out a further survey of the disturbance area to determine whether the following endangered ecological communities are present: *Tablelands Snow Gum, Black Sallee, Candlebark and Ribbon Gum Grassy Woodland in the South Eastern Highlands, Sydney Basin, South East Corner and NSW South Western Slopes Bioregions*;
 - provide a copy of the survey report to OEH and the Department.
41. If the pre-clearance survey above, determines that the endangered ecological communities are present in the approved disturbance area, then the Proponent shall revise the biodiversity offset strategy to the satisfaction of the Director-General. The revised strategy must be prepared in consultation with OEH and provide a suitable offset for the clearing of the endangered ecological community.. Following approval of the revised strategy, the Proponent shall implement the revised strategy to the satisfaction of the Director-General.

Rehabilitation Objectives

42. 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 comply with the objectives in Table 8.

Table 8 - 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 with native endemic flora species
Quarry Pit Floors	Compatible with the adjacent natural landscape
Other Land affected by the project	Restore ecosystem function, including maintaining or establishing self-sustaining eco-systems comprised of: <ul style="list-style-type: none"> local native species: and a landform consistent with the surrounding environment

Progressive Rehabilitation

43. 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

44. The Proponent shall prepare and implement Landscape Management Plan for the project to the satisfaction of the Director-General. This plan must:
- (a) prepared in consultation with OEH by suitably qualified and experienced persons;
 - (b) include:
 - a Biodiversity Management Plan that:
 - describes how the implementation of the biodiversity offset strategy would be integrated with the overall rehabilitation of the site;
 - describes the short, medium and long term measures that would be implemented to:
 - manage the remnant vegetation on the site; and
 - implement the biodiversity offset strategy;
 - includes detailed performance and completion criteria for evaluating the performance of the biodiversity offset strategy, and triggering remedial action (if necessary);
 - includes a detailed description of the measures that would be implemented over the next 3 years, including the procedures to be implemented for:
 - enhancing the quality of existing vegetation and fauna habitat;
 - restoring native vegetation and fauna habitat on the biodiversity areas and rehabilitation area through focusing on assisted natural regeneration, targeted vegetation establishment and the introduction of naturally scarce fauna habitat features (where necessary);
 - maximising the salvage of resources within the approved disturbance area – including vegetative, and soil resources – for beneficial reuse in the enhancement of the biodiversity areas or rehabilitation area;
 - collecting and propagating seed;
 - minimising the impacts on fauna on site, including undertaking pre-clearance surveys;
 - controlling weeds and feral pests; controlling erosion;
 - controlling access; and
 - bushfire management;
 - includes a seasonally-based program to monitor and report on the effectiveness of these measures, and progress against the detailed performance and completion criteria;
 - identifies the potential risks to the successful implementation of the biodiversity offset strategy, and include a description of the contingency measures that would be implemented to mitigate against these risks; and
 - a Rehabilitation Management Plan that:
 - describes how the rehabilitation of the site would be integrated with the implementation of the biodiversity offset strategy;
 - includes detailed performance and completion criteria for evaluating the performance of the rehabilitation of the site, and triggering remedial action (if necessary);
 - describe the measures that would be implemented to ensure compliance with the relevant conditions of this approval, and address all aspects of rehabilitation including quarry closure, final landform and final land use;
 - include interim rehabilitation where necessary to minimise the area exposed for dust generation;
 - includes a program to monitor and report on the effectiveness of these measures, and progress against the detailed performance and completion criteria; and
 - build to the maximum extent practicable on the other management plans required under this approval.

The Proponent shall not carry out any development on the site under this approval before this plan has been approved by the Director-General

Rehabilitation and Conservation Bond

45. Within 6 months of the approval of the Landscape Management Plan, the Proponent shall lodge a Rehabilitation and Conservation Bond with the Department to ensure that the rehabilitation of the site and the biodiversity offset strategy are implemented in accordance with the relevant performance and completion criteria in the plan.

The sum of the bond shall be determined to the satisfaction of the Director-General by suitably qualified persons whose appointment has been approved by the Director-General, provide for the full cost of rehabilitating the site and implementing the biodiversity offset strategy.

If the rehabilitation of the site and implementation of the biodiversity offset strategy are completed to the satisfaction of the Director-General, in general accordance with the relevant completion criteria in the Landscape Management Plan, then the Director-General will release the bond.

If the rehabilitation of the site and implementation of the biodiversity offset strategy are not completed to the satisfaction of the Director-General, the Director-General will call in all or part of the bond, and arrange for the satisfactory completion of the relevant works.

46. 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 Rehabilitation and Conservation Bond to the satisfaction of the Director-General. This review must consider:
- (a) the effects of inflation;
 - (b) the likely cost of implementing the biodiversity offset rehabilitating the site and; and
 - (c) the performance of the implementation of the biodiversity offset strategy and rehabilitation of the site to date.
-

SCHEDULE 4 ADDITIONAL PROCEDURES

NOTIFICATION OF LANDOWNERS

1. Prior to carrying out any development on the site under this approval, the Proponent shall notify in writing the owner/s of:
 - (a) any privately-owned land within two kilometres of the approved blasting on site that they are entitled to request an inspection to establish the baseline condition of any buildings or structures on their land;
 - (b) residences 'O', 'P', 'Q', 'V' and 'W' marked on the figure in Appendix 2 and the residence on the land marked '6' on the figure in Appendix 2 (that was approved prior to the date of this approval), that they have the right to request visual mitigation measures (such as landscaping treatments or vegetation screens) on their land at any stage of the project; and
 - (c) residence on the Breed land that they have the right to ask for additional noise mitigation measures to be installed at their residence at any stage of the project.
2. As soon as practicable after obtaining monitoring results showing:
 - (a) an exceedance of any relevant noise criteria in schedule 3, the Proponent shall notify affected landowners and/or tenants in writing of the exceedance, and provide regular monitoring results to each of these affected parties until the project is again complying with the relevant criteria; and
 - (b) an exceedance of any relevant air quality criteria in schedule 3, the Proponent shall send the affected landowners and/or tenants a copy of the NSW Health fact sheet entitled "Mine Dust and You" (as may be updated from time to time), including the tenants of any land owned by the Proponent.

INDEPENDENT REVIEW

3. 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:

- (a) commission a suitably qualified, experienced and independent person, 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 measures that could be implemented to ensure compliance with the relevant criteria;
 - (b) give the Director-General and landowner a copy of the independent review.
4. 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 Director-General.
 5. If the independent review determines that the project is not complying with the relevant criteria in schedule 3, then the Proponent shall:
 - (a) implement all reasonable and feasible mitigation measures, in consultation with the landowner and appointed independent person, and conduct further monitoring until the project complies with the relevant criteria; or
 - (b) secure a written agreement with the landowner to allow exceedances of the relevant criteria, to the satisfaction of the Director-General.
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**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 for approval to the Director-General prior to the commencement of development on the site under this approval;
 - (b) provide the strategic framework for the 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;
 - 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;
 - 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;
 - effectiveness of any management measures (see c above);
 - (e) a contingency plan to manage any unpredicted impacts and their consequences and to ensure that ongoing impacts reduce to levels below relevant impact assessment criteria as quickly as possible;
 - (f) a 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
- (g) a protocol for periodic review of the plan.

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

Annual Review

4. At the end of each calendar year after the commencement of development on the site under this approval, 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 any rehabilitation) that was carried out in the previous 12 months, and the development that is proposed to be carried out over the next 12 months;
 - (b) include a comprehensive review of the monitoring results and complaints records of the project over the past 12 months, which includes a comparison of these results against the:
 - the relevant statutory requirements, limits or performance measures/criteria;
 - requirements of any plan or program required under this approval;
 - the monitoring results of previous years; and
 - the relevant predictions in the EA;
 - (c) identify any non-compliance over the past 12 months, 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 next 12 months to improve the environmental performance of the project.

Revision of Strategies, Plans and Programs

5. Within three months of:
 - (a) the submission of an annual review under condition 4 above;
 - (b) the submission of an incident report under condition 7 below;
 - (c) the submission of an audit under condition 9 below; and
 - (d) any modification to the conditions of 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 established and 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 prior to the carrying out of any development on the site under 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; and*
- *In accordance with the guideline, the Committee should be comprised of an independent chair and appropriate representation from the Proponent, Council and the local community.*

REPORTING

Incident Reporting

7. At the earliest opportunity, the Proponent shall notify 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. One year after the commencement of development on the site under this approval, and every three 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. The audit must:
 - (a) be conducted by a 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 assess whether it is complying with the requirements in this approval and any relevant EPL or Mining Lease (including any assessment, plan or program required under these approvals);
 - (d) review the adequacy of strategies, plans or programs required under the abovementioned approvals; and
 - (e) recommend appropriate measures or actions to improve the environmental performance of the project, and/ or any assessment, plan or program required under the abovementioned approvals.

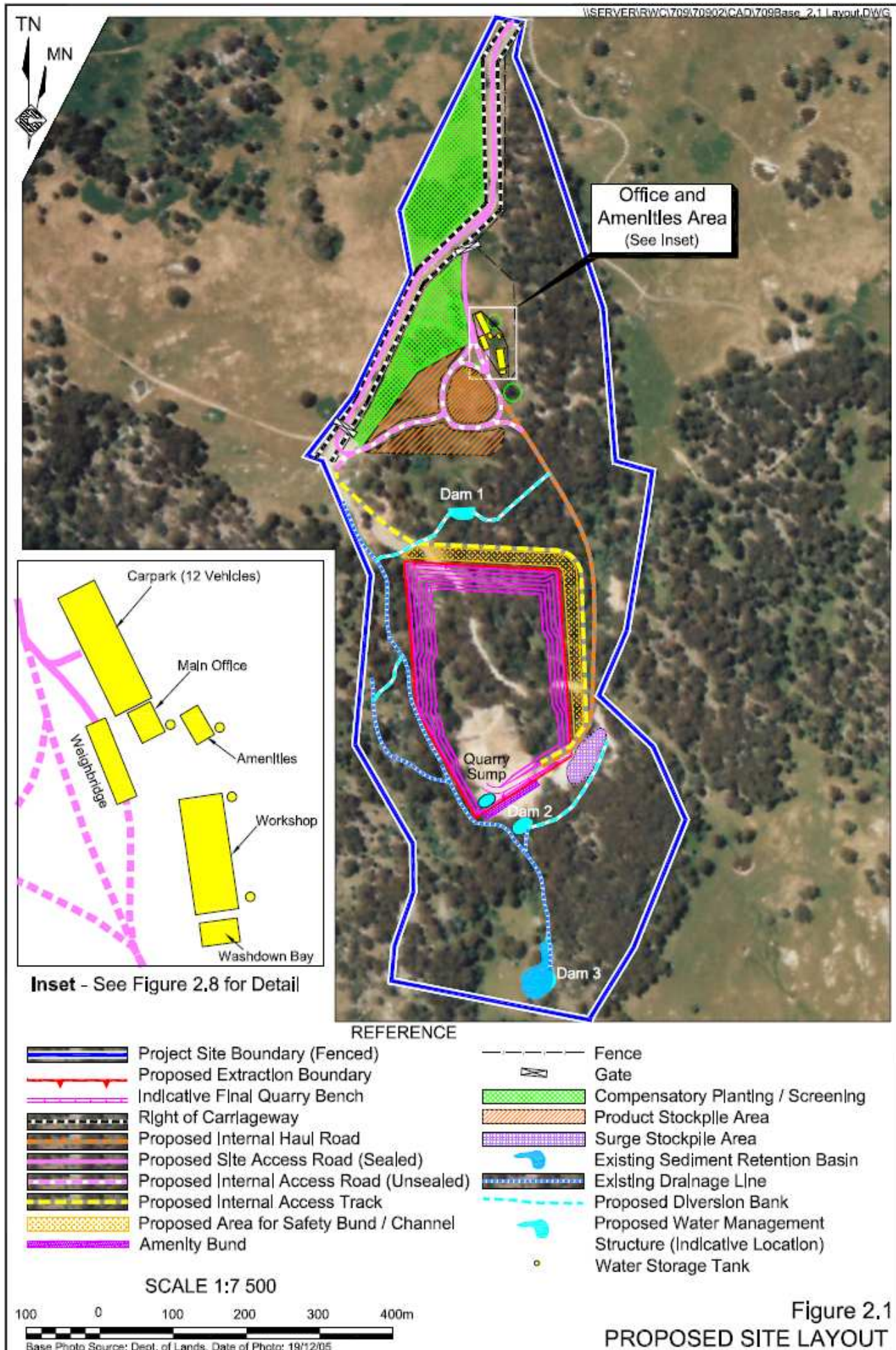
Note: This audit team must be led by a suitably qualified auditor and include experts in any fields specified by the Director-General.

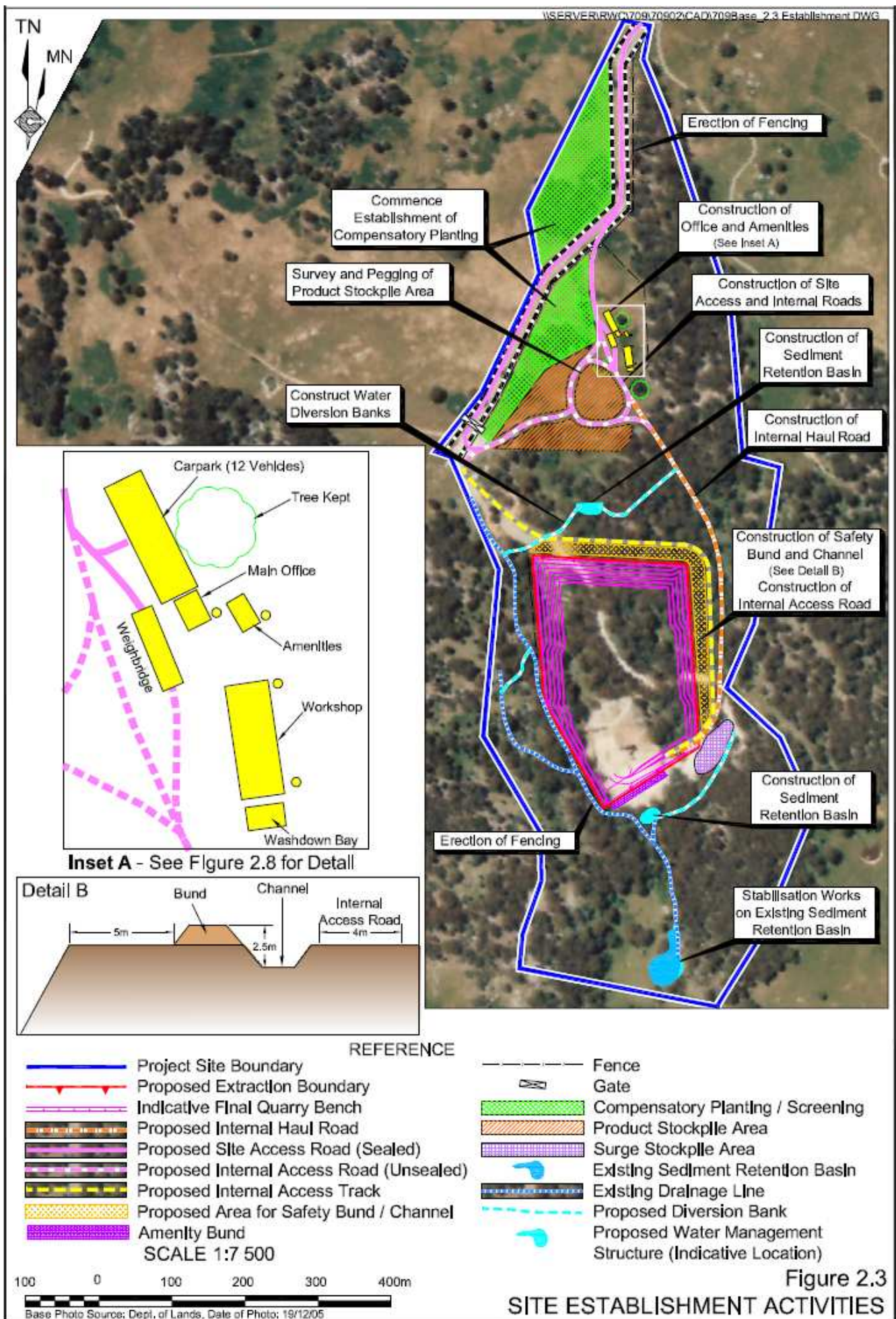
10. Within six weeks of the completion of this audit, or as otherwise agreed by the Director-General, the Proponent shall submit a copy of the audit report to the Director-General, together with its response to any recommendations contained in the audit report.

ACCESS TO INFORMATION

11. Before the commencement of the site establishment phase and for the duration of the project, the Proponent shall:
 - (a) make copies of the following publicly available on its website:
 - the documents referred to in condition 2 of schedule 2;
 - all relevant statutory approvals for the project;
 - all approved strategies, plans and programs required under the conditions of this approval;
 - a comprehensive summary of the monitoring results of the project, reported in accordance with the specifications in any approved plans or programs required under the conditions of this or any other approval;
 - a complaints register, which is to be updated on a monthly basis;
 - minutes of CCC meetings;
 - the annual reviews required under this approval;
 - any independent environmental audit of the project, and the Proponent's response to the recommendations in any audit;
 - 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 LAYOUT PLANS







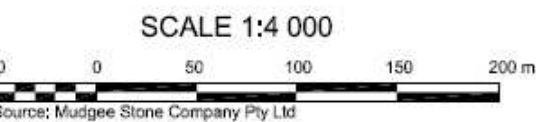
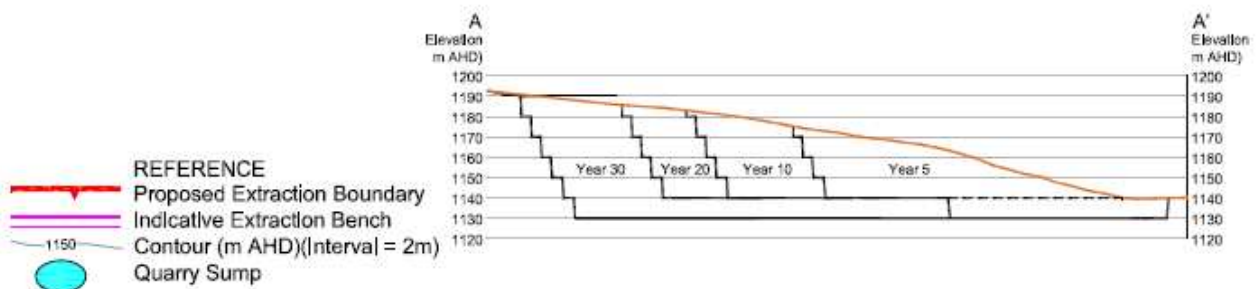
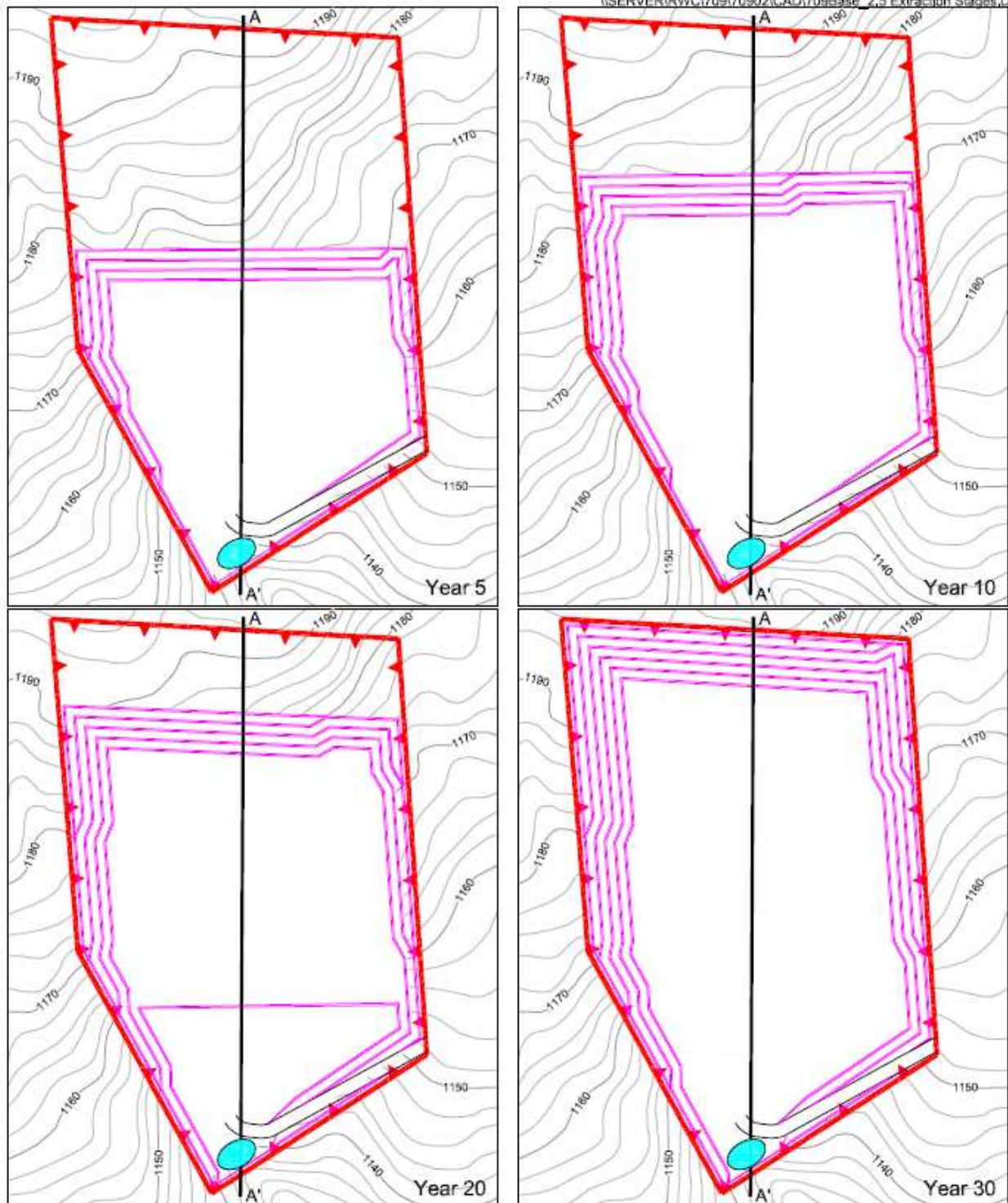
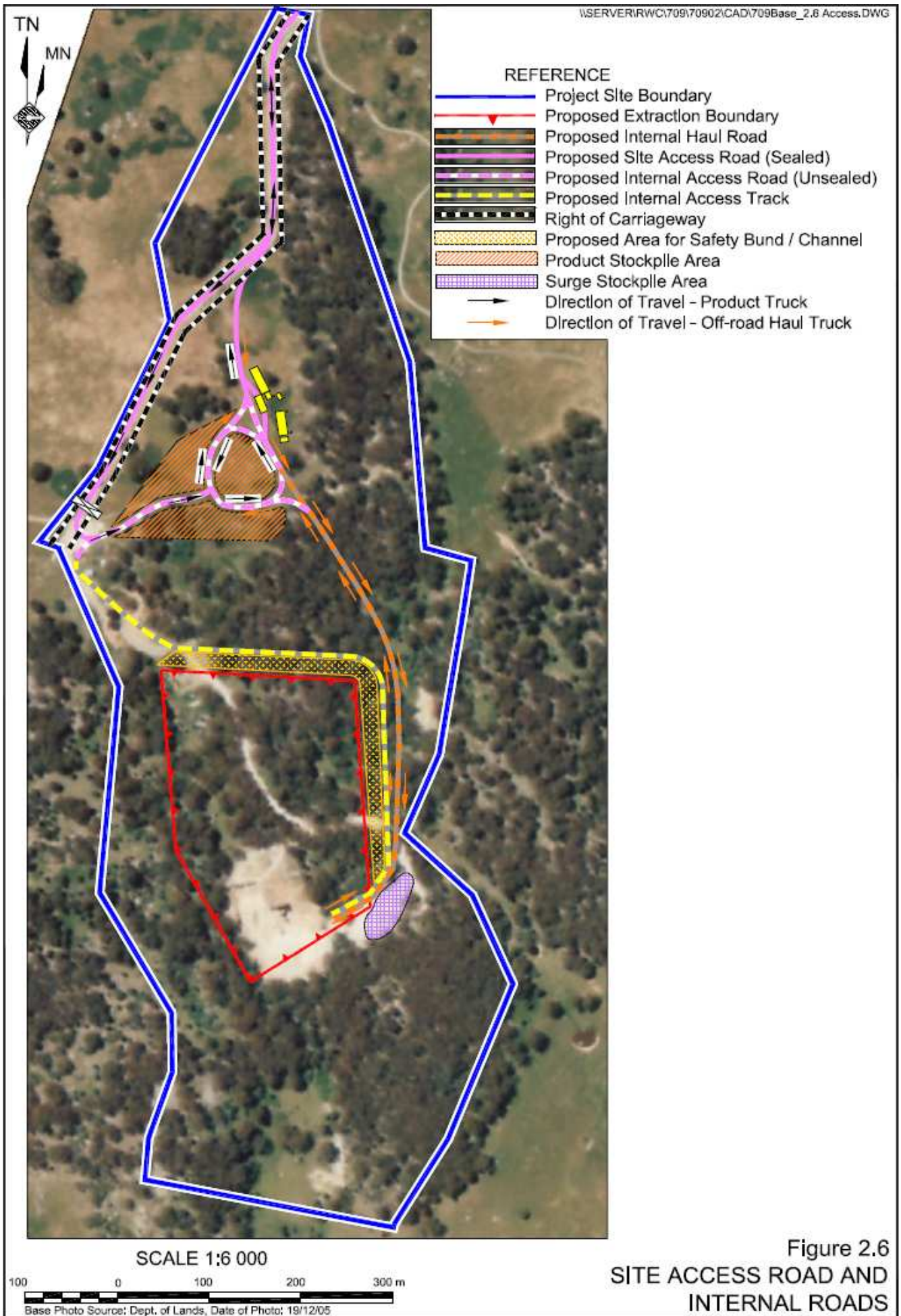
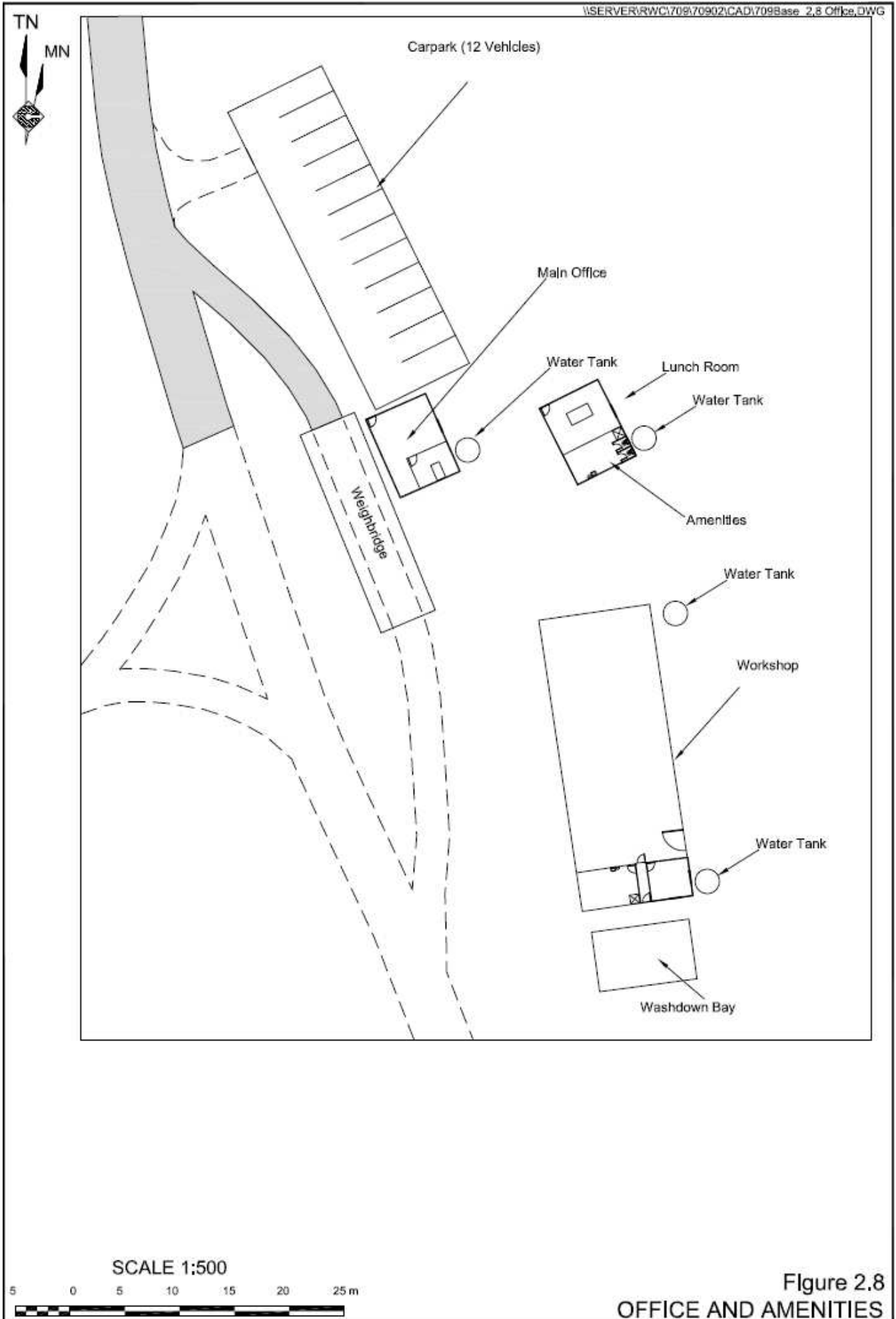
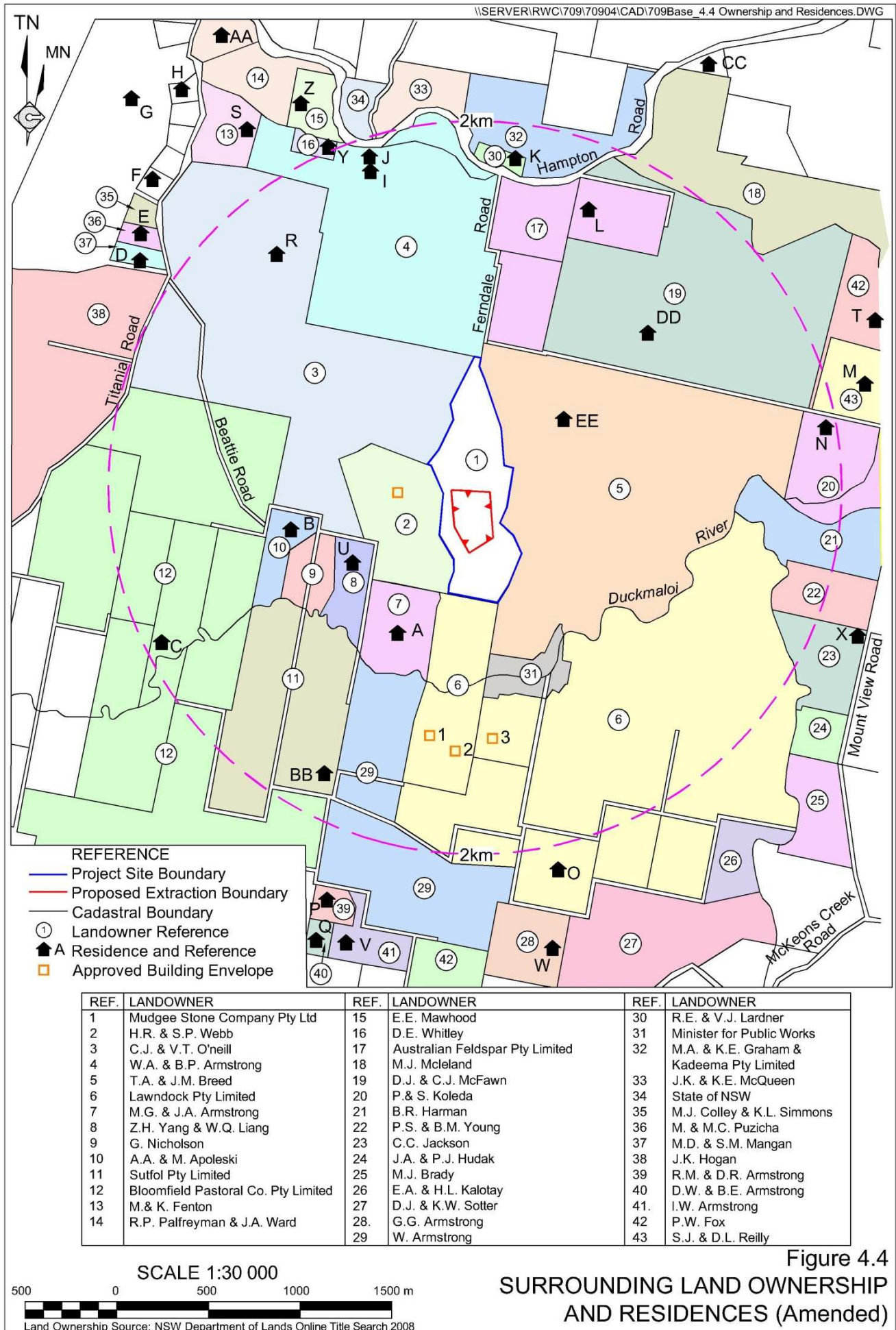


Figure 2.5
INDICATIVE
EXTRACTION STAGES





APPENDIX 2 – SURROUNDING LANDOWNERS AND RESIDENCES



APPENDIX 3 – INDICATIVE FINAL LANDFORM AND BIODIVERSITY OFFSETS

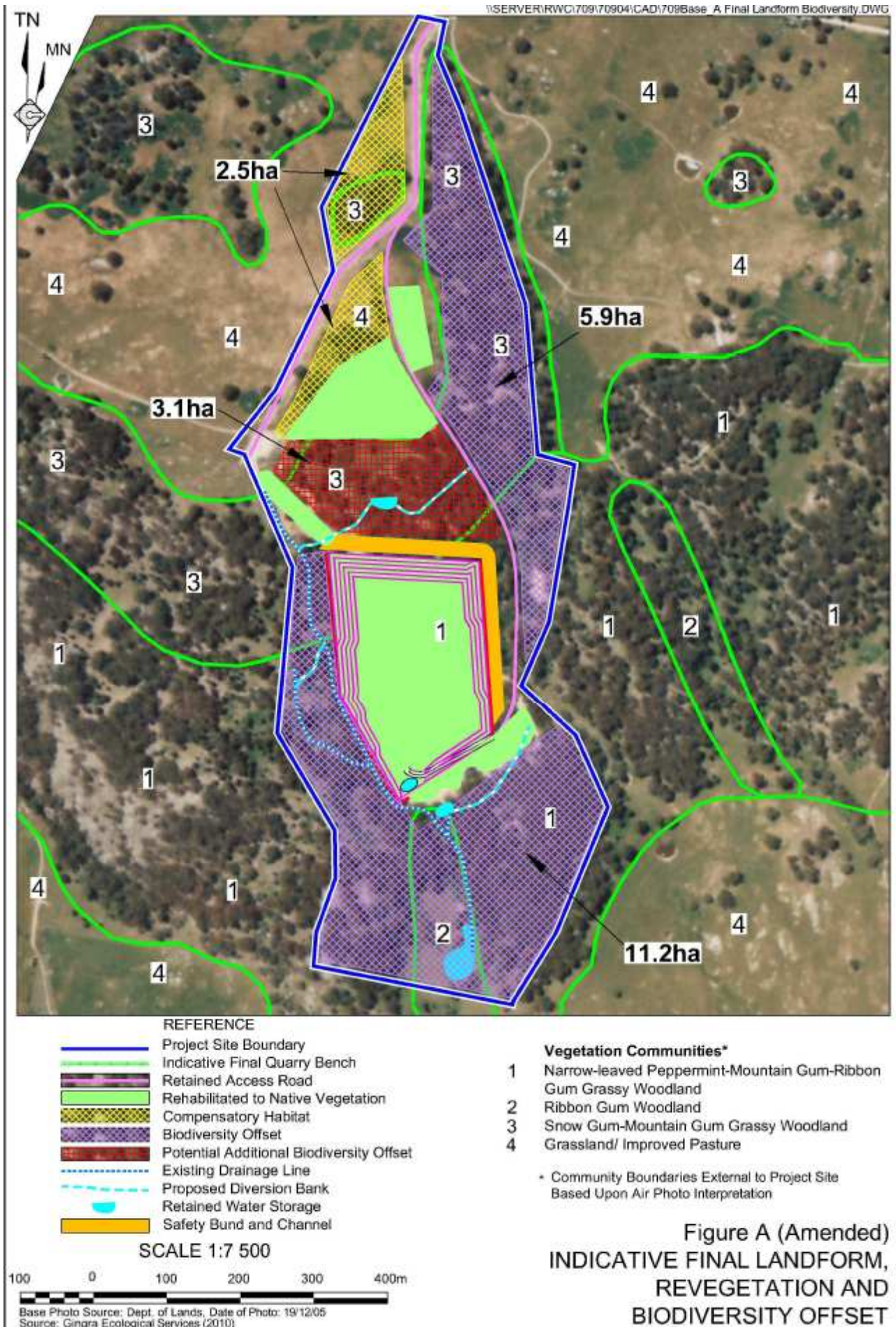


Figure A (Amended)
INDICATIVE FINAL LANDFORM,
REVEGETATION AND
BIODIVERSITY OFFSET

APPENDIX 4 – STATEMENT OF COMMITMENTS

Final Statement of Commitments

Page 1 of 8

Desired Outcome	Action	Timing
1. Area of Activities		
All approved Project components are constructed and activities are undertaken in the area(s) nominated on the approved plans and figures (unless moved slightly to avoid individual trees).	1.1 Survey and mark the boundaries of the areas of disturbance.	Prior to site establishment and each clearing campaign.
2. Extraction and Processing Activities		
Extraction and processing rates do not exceed assessed maximum rates.	2.1 Ensure total extraction rates do not exceed 250 000t per year.	Continuous during operations.
3. Operating Hours		
Management of operating hours in accordance with project approval conditions.	3.1 Undertake all site establishment and vegetation clearing activities between 9:00am and 5:00pm Monday to Friday.	During site establishment and vegetation clearing.
	3.2 Undertake all drilling works between 7:00am and 5:00pm Monday to Friday.	During operations.
	3.3 Undertake all blasting and small charge popping between 9:00am to 5:00pm Monday to Friday.	During operations.
	3.4 Undertake all rock hammering between 10:00am to 12:00noon Monday to Friday.	During operations.
	3.5 Undertake all processing activities between 7:00am and 6:00pm Monday to Friday and 8:00am to 6:00pm Saturdays.	During operations.
	3.6 Undertake all product loading and despatch between 7:00am and 6:00pm Monday to Friday and 8:00am to 6:00pm Saturdays and Sundays.	During Operations.
	3.7 Undertake audible site maintenance between 7:00am to 6:00pm Monday to Friday and 8:00am to 6:00pm Saturdays.	During operations.
	3.8 Undertake inaudible / non-intrusive site maintenance at any time.	During operations.
4. Surface Water		
Minimisation of the volumes of sediment-laden water generated and prevention of sediment-laden water discharge off site.	4.1 Construct a sediment retention basin (Dam 1) with a capacity of at least 0.7ML immediately to the north of the proposed extended extraction area boundary to capture and divert clean water runoff.	During site establishment.
	4.2 Construct a sediment retention basin (Dam 2) with a capacity of at least 2.78ML at the southern base of the amenity bund to manage sediment laden water.	During site establishment.
	4.3 Construct clean water diversion banks north of the extraction area to divert clean water into the existing drainage lines west of the extraction area.	During site establishment.
	4.4 Pump or siphon excess water from the quarry sump to Dam 2.	As required.

Final Statement of Commitments

Page 2 of 8

Desired Outcome	Action	Timing
4. Surface Water (Cont'd)		
Minimisation of erosion and sedimentation.	4.5 Install additional stabilisation works, such as geofabric and rock ballast, within the channel at the entrance and exit of the pipe culvert for the crossing of the diversion bank by the internal access track.	During site establishment.
	4.6 Construct spoon drains along the internal haul road at lengths as necessary to reduce the concentration and velocity of water flows within the road-side drainage.	During site establishment.
	4.7 Install and maintain sediment fences on the downstream periphery of all stockpile footprint areas, including the proposed stockpile area and surge stockpile, and temporary disturbance areas where the area draining to the fence is less than 0.6ha, the slope length is less than 60m and the slope is no greater than 1:2 (V:H).	Ongoing.
	4.8 Rehabilitate exposed and disturbed areas as soon as possible and practicable.	As areas become available.
	4.9 Sow the diversion banks with a non-persistent cover crop within 10 days of construction to prevent erosion of the bank and drain until native grasses and groundcover are established.	Following construction of diversion banks.
Implementation of a comprehensive surface water monitoring program.	4.10 Prepare a Surface Water Management and Monitoring Plan.	Within 6 months of Project Approval.
	4.11 Monitor surface water quality within Dams 1, 2 and 3 for pH, EC and TSS.	Quarterly and following discharge (up to 4 times per year).
Implementation of a comprehensive surface water monitoring program.	4.12 Monitoring water quality within Duckmaloi River upstream and downstream including pH, TSS, TDS, specific conductance, CO ₃ , HCO ₃ , Calcium, Chloride, Iron (filterable), Potassium, Magnesium, Manganese, Sodium, Sulfur and Total Hardness.	Annually and following discharge (up to 4 times per year).
	4.13 Review the monitoring program following the first 12 months of operation and determine a diagnostic set of analytes for long-term monitoring.	Following first 12 months of operation.
5. Groundwater		
Demonstration that no significant groundwater impacts are occurring as a result of operations.	5.1 Prepare a Groundwater Management Plan.	Within 6 months of Project Approval
	5.2 Monitor the standing water level within the closest registered bore (GW801330) and springs on adjacent landholdings (with landholder permission).	Monthly during operations.
	5.3 Record the approximate volume of any groundwater inflows into the extraction area.	Ongoing during operations.
	5.4 Review the frequency of monitoring / need for ongoing monitoring.	Annually.

Desired Outcome	Action	Timing
6. Flora		
Minimisation of short and long-term impacts on flora within the Project Site.	6.1 Clearly define and mark vegetation to be retained to ensure that native vegetation clearing is confined only to those areas required for Project operations.	Prior to the commencement of site establishment/ additional vegetation clearing.
	6.2 Control noxious weeds on the Project Site.	Ongoing.
	6.3 Clean down machinery which has been working within foreign soil material to minimise the risk of introducing weeds and plant pathogens.	Before being brought to site.
	6.4 Exclude domestic grazing animals from the Project Site (except where required to manage fire and fuel control).	Ongoing.
	6.5 Establish the biodiversity offset of in consultation with the Office of Environment and Heritage.	Within agreed timeframe.
	6.6 Establish and maintain two compensatory planting areas totalling approximately 2.5ha.	During site establishment and ongoing during operations.
	6.7 Prepare a Flora and Fauna / Biodiversity Management Plan.	Prior to additional vegetation clearing.
7. Fauna		
Minimisation of impacts on fauna within the Project Site.	7.1 Undertake a pre-clearance inspection prior to each vegetation clearing campaign to determine the presence of breeding/nesting native fauna within the disturbance area. This survey would be undertaken by inspection of trees from the ground and by searches for other evidence of nesting, particularly by threatened bird species.	Prior to vegetation clearing.
	7.2 Restrict clearing to between February and August when possible to avoid the breeding season of threatened species that may potentially occur within the Project Site and surroundings.	During vegetation clearing.
	7.3 Set aside small tree limbs and trunks for use in habitat improvement and rehabilitation.	During vegetation clearing.

Desired Outcome	Action	Timing
8. Transportation		
Achieve safe and efficient transport operations.	8.1 Prepare and supply a "code of conduct" or similar to all drivers outlining the required conduct during the delivery of materials and details of the local school bus route and times. The code would require: <ul style="list-style-type: none"> – all loads to be covered prior to exiting the quarry; – all loaded trucks to exit the site over the weighbridge; – minimisation of the use of exhaust breaks when travelling on Ferndale Road; – truck drivers to be conscious of the school bus and school children, particularly during specified pick up / drop off times (details of which would be outlined within the code); and – driving in a courteous and safe manner. 	Within 6 months of project approval or prior to site establishment (whichever is the sooner).
	8.2 Continue use of the 40km/hr speed limit for trucks whilst travelling along the site access road (including the right of carriageway).	Ongoing.
	8.3 Restrict transportation of materials to between 7.00am and 6.00pm daily (Monday to Saturday) and 8.00am and 6.00pm (Sunday).	Ongoing.
	8.4 Direct any overloaded trucks to unload a portion of their load to ensure that the vehicle mass remains within legal weight loadings.	Ongoing.
Minimise potential for amenity impacts upon surrounding landholders.	8.5 Do not load and transport more than three (3) truckloads of product from site on Sundays.	Sundays
Achieve safe and efficient transport operations.	8.6 Install reflector posts or similar on Hampton Road, in consultation with the RTA, to allow the assessment of visibility during poor weather conditions such as fog.	Within 6 months of project approval or prior to commencing site establishment or transport activities under the new project approval (whichever is sooner).
	8.7 Maintain the roadways within the right of carriage ways within the Project Site and between the Project Site and Ferndale Road.	Ongoing during operations.
	8.8 Pay contributions in accordance with the Oberon Council Contributions Plan (2004) or enter into a Voluntary Planning Agreement with Council for maintenance of Ferndale Road.	Annually or as otherwise agreed with Council.

Desired Outcome	Action	Timing
9. Noise and Vibration		
All activities are undertaken in such a manner as to reduce the noise level generated and minimise impacts on surrounding landholders and/or residents.	9.1 Install an on-site weather station to enable assessment of adverse weather conditions and management of potentially noise intrusive activities.	Within 6 months of project approval or prior to production exceeding 25 000tpa (whichever occurs sooner).
	9.2 Notify all immediately adjacent neighbouring residents or those potentially affected prior to the planned site establishment and subsequent vegetation clearing campaigns including the expected commencement and completion dates.	Prior to site establishment and vegetation clearing campaigns.
	9.3 Restrict vegetation clearing campaigns to between 9:00am and 5:00pm Monday to Friday.	During vegetation clearing.
	9.4 Locate, as far as practicable, the crusher behind product or raw material stockpiles to create additional acoustic shielding. This would be achieved by preferential stockpiling of products in the appropriate locations behind product or raw material stockpiles to create additional acoustic shielding.	During crushing.
	9.5 Ensure no rock hammering is undertaken during the operation of the drill rig or during vegetation clearing campaigns.	During drill rig or dozer operation.
	9.6 Ensure that the dozer is not operated during the operation of a vegetation chipper / mulcher.	During operation of a vegetation chipper / mulcher.
	9.7 Undertake all rock hammering on the quarry floor within 20m of the eastern or western quarry faces (for acoustic shielding purposes).	During rock hammering.
	9.8 Restrict the operation of the excavator to the quarry floor during operation of the drill rig.	During drill rig operation.
	9.9 Maintain a minimum 6m acoustic bund along the southern boundary of the extraction area (see also Action No.12.7).	Ongoing.
	9.10 Cease operation of the drill rig in accordance with the Noise Management Plan.	During adverse weather conditions likely to cause noise exceedances.
	9.11 Ensure all mobile plant on site use frequency modulated reversing alarms (as opposed to beeping reversing alarms).	Ongoing.
	9.12 Regularly service all plant and equipment on site to ensure no unnecessary noise emissions due to poor maintenance.	Ongoing.

Desired Outcome	Action	Timing
9. Noise and Vibration (Cont'd)		
All activities are undertaken in such a manner as to reduce the noise level generated and minimise impacts on surrounding landholders and/or residents.	9.13 Ensure the on-site road network is regularly maintained to limit noise from the bodies of empty trucks travelling on the internal roads.	Ongoing.
	9.14 Ensure product trucks being loaded within the stockpile area are preferentially loaded on the western side of the product stockpiles, whenever possible, particularly during early morning loading operations.	During loading of products from the product stockpile area.
	9.15 Undertake operations in a manner so as to minimise potential noise impacts upon surrounding landholders.	Ongoing.
	9.16 Prepare a Noise Management Plan.	Within 6 months from project approval.
	9.17 Undertake noise monitoring at representative residences, or at residences as reasonably requested, in consultation with the OEH and local residents.	During site establishment, vegetation clearing campaigns and annually during normal operations.
Achieve compliance with all ANZECC Blasting Guidelines.	9.18 Ensure the use of burden distance and stemming so that explosion gases are almost completely without energy by the time they emerge into the atmosphere.	During blasting.
	9.19 Ensure setting of charges in carefully designed sequences and with inter-row delays so as to consistently detonate and provide good progressive release of burden.	During blasting.
	9.20 Ensure use of appropriate stemming materials, eg. 20mm aggregates.	During blasting.
	9.21 Limit the maximum weight of explosive detonated in a given delay period (the maximum instantaneous charge (MIC)) to conservative and proven levels.	During blasting.
	9.22 Ensure the blast design is optimised as required to minimise adverse impacts upon surrounding residential receivers.	During blasting.
	9.23 Ensure monitoring of all blasts is undertaken at the nearest non-project related residential receiver or location otherwise approved by OEH.	During blasting.

Desired Outcome	Action	Timing
10. Air Quality		
Site activities are undertaken without exceeding OEH air quality criteria or adversely impacting upon surrounding receivers.	10.1 Locate the mobile crushing plant within the extraction area which provides topographical shielding from the effects of winds.	Prior to commencement of crushing.
	10.2 Fit dust suppression sprays to the crushing plant.	Prior to commencement of crushing.
	10.3 Use a water truck to wet the active internal unsealed roads when trucks are planned to travel on those roads and weather conditions require application of water.	As required during dry conditions.
	10.4 Ensure progressive rehabilitation of disturbed areas, wherever practicable, to reduce the disturbed area exposed to wind erosion.	As areas become available.
	10.5 Minimise the drop heights between front-end loader buckets and trucks carrying raw materials, products or soil through operator training and education on the management of dust.	Ongoing.
	10.6 Ensure the drill rig used for drilling and blasting utilises water injection or alternatively, be fitted with dust collectors.	During drilling operations.
	10.7 Avoid blasting when winds are blowing from the northeast to southeast direction (ie. towards the dwelling on Lot 12 DP 603429).	During blasting.
	10.8 Undertake monitoring of deposited dust levels at two or three locations surrounding the Project Site for a period of 5 years following commencement of operations. Following the initial 5 years of operation, the need for ongoing dust monitoring would be reviewed in consultation with OEH.	Within 6 months of Project Approval.
	10.9 Commence monitoring of particulate matter <10 microns (PM ₁₀) at a location agreed with the OEH. Continue monitoring unless otherwise agreed with the OEH and DP&I following a suitable timeframe during which compliance has been demonstrated.	Within 6 months of project approval or prior to production exceeding 25 000tpa (whichever is sooner).
	10.10 Determine the location of the monitoring sites in consultation with the OEH and surrounding landholders.	Prior to commencement of monitoring.
	10.11 Prepare an Air Quality Management Plan incorporating an air monitoring program.	Within 6 months of Project Approval.

Page 8 of 10

Desired Outcome	Action	Timing
11. Aboriginal Heritage		
Site activities are undertaken without impacting upon any Aboriginal heritage items.	11.1 Stop works at and in the vicinity of any Aboriginal heritage sites or relics, if found.	During site establishment, construction and operational phases.
	11.2 Contact OEH if any Aboriginal heritage sites or relics are found.	
	11.3 Receive authorisation from OEH prior to proceeding with any works in the vicinity of any identified Aboriginal heritage sites or relics that are found.	
12. Visibility		
Limit the visibility of operational areas from nearby residences and landholdings.	12.1 Plant a visual screen (the Compensatory Planting areas) along the right of carriageway to supplement existing vegetation and reduce potential views of stockpiling and transport activities.	At commencement of operations.
	12.2 Ensure the Project Site is progressively rehabilitated so that non-vegetated areas would be minimised.	As areas become available.
	12.3 Ensure the Project Site is maintained in a clean and tidy condition at all times.	Ongoing.
	12.4 Ensure air quality controls are implemented to reduce visible dust.	Ongoing.
	12.5 Position and direct any artificial lighting required so as to minimise light emissions in accordance with <i>Australian Standard AS4282(INT) 1995 – Control of Obtrusive Effects of Outdoor Lighting</i> .	During operation of lighting.
	12.6 Do not direct artificial light onto the quarry face after 5:00pm and, where lighting is not required at any given time, it would not be used.	During operation of lighting.
	12.7 Investigate and implement, in consultation with potentially affected landholders, reasonable and practical techniques to reduce the visual impact of upper extraction faces prior to establishment of vegetation.	Ongoing.
	12.8 Increase the effective height of the existing 6m amenity bund on the southern boundary of the extraction area to 10m through one of the three options displayed in Figure A.	Within 12 months of project approval.
13. Consultation, Monitoring and Reporting		
Continued dialogue with the local community and rectification of issues of community concern, where possible.	13.1 Maintain a community complaints response system.	Ongoing.
	13.2 Participate, if requested, in a community consultative committee.	Ongoing.
Collection of meaningful monitoring data and regular review of performance.	13.3 Review all monitoring data on an annual basis and reassess the required monitoring frequency and parameters.	Annually.
	13.4 Report all monitoring results within the Annual Environmental Management Report.	Annually.
Preparation of documentation to guide on-site environmental management.	13.5 Prepare an Environmental Management Strategy.	Within 6 months of Project Approval.