

Development Consent

Section 4.38 of the Environmental Planning and Assessment Act 1979

The Independent Planning Commission of NSW (the Commission), as the declared consent authority under clause 8A of the *State Environmental Planning Policy (State and Regional Development) 2011* and section 4.5(a) of the *Environmental Planning and Assessment Act 1979*, approves the development application referred to in Schedule 1, subject to the conditions in Schedule 2.

These conditions are required to:

- prevent, minimise, 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 development.

[Name of Commissioner] Member of the Commission	[Name of Commissioner] Member of the Commission	[Name of Commissioner] Member of the Commission
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Sydney	20243
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SCHEDULE 1

Application Number:	SSD-11591659
Applicant:	Ironstone Developments Pty Ltd
Consent Authority:	The Independent Planning Commission of NSW
Site:	The land defined in Appendix 1
Development:	Deep Creek Quarry

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DEFINITIONS

Aboriginal object / Aboriginal place	Has the same meaning as the definition of the term in section 5 of the <i>National Parks and Wildlife Act 1974</i>
Annual Review	The review required by condition D9
Applicant	Ironstone Developments Pty Ltd, or any person carrying out any development under this consent
Approved disturbance area	The area identified as such on the development layout
Approved extraction area	The area identified as such on the development layout
BCA	Building Code of Australia
BC Act	<i>Biodiversity Conservation Act 2016</i>
BCD	Biodiversity Conservation Division within the Department
BCT	Biodiversity Conservation Trust
Blast misfire	The failure of one or more holes in a blast pattern to initiate
Calendar year	A period of 12 months from 1 January to 31 December
CCC	Community Consultative Committee required by condition A19
Conditions of this consent	Conditions contained in Schedule 2
Construction	All physical works to enable quarrying operations to be carried out, including demolition and removal of buildings or works, and erection of buildings and other infrastructure permitted by this consent
Council	Mid-Coast Council
Date of commencement	The date notified to the Department by the Applicant under condition A16 for the commencement of construction or quarrying operations.
Day	The period from 7 am to 6 pm on Monday to Saturday, and 8 am to 6 pm on Sundays and Public Holidays
DCCEEW	Commonwealth Department of Climate Change, Energy, the Environment and Water
Decommission	The deconstruction or demolition and removal of works installed as part of the development
Demolition	The deconstruction and removal of buildings, sheds and other structures on the site
Department	NSW Department of Planning and Environment
Development	The development described in the document/s listed in condition A2(c), as modified by the conditions of this consent.
Development Layout	The plan in Appendix 2
DPE Crown Lands	Crown Lands within the Department
DPE Water	Water Group within the Department
EIS	The Environmental Impact Statement titled " <i>Deep Creek Quarry Environmental Impact Statement</i> ", dated November 2021 and prepared by Kleinfelder (Australia) Pty Limited; " <i>Response to Submissions Report</i> " dated December 2022 and prepared by Wedgetail Project Consulting Pty Limited; and the Applicant's additional information responses in support of the application and included in Appendix C of the Department's assessment report on Deep Creek Quarry Project, dated November 2023.
Environment	Includes all aspects of the surroundings of humans, whether affecting any human as an individual or in his or her social groupings
EPA	NSW Environment Protection Authority
EP&A Act	<i>Environmental Planning and Assessment Act 1979</i>
EP&A Regulation	<i>Environmental Planning and Assessment Regulation 2021</i>
EPBC Act	<i>Commonwealth Environment Protection and Biodiversity Conservation Act 1999</i>
EPL	Environment Protection Licence under the POEO Act

Feasible	Means what is possible and practical in the circumstances
GPS	Global Positioning System
Incident	An occurrence or set of circumstances that causes or threatens to cause material harm and which may or may not be or cause a non-compliance
Land	Has the same meaning as the definition of the term in section 1.4 the EP&A Act, except for where the term is used in the noise and air quality conditions in PART B of this consent 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 consent
Local roads	All public roads for which the Council of a local government area is the roads authority as prescribed under Clause 7 of the <i>NSW Roads Act 1993</i>
Material harm	<p>Is harm that:</p> <ul style="list-style-type: none"> involves actual or potential harm to the health or safety of human beings or to the environment that is not trivial; or results in actual or potential loss or property damage of an amount, or amounts in aggregate, exceeding \$10,000, (such loss includes the reasonable costs and expenses that would be incurred in taking all reasonable and practicable measures to prevent, mitigate or make good harm to the environment) <p>This definition excludes "harm" that is authorised under either this consent or any other statutory approval'</p>
MEG	Department of Regional NSW – Mining, Exploration and Geoscience
Minimise	Implement all reasonable and feasible mitigation measures to reduce the impacts of the development
Minister	NSW Minister for Planning and Public Spaces, or delegate
Minor	Not very large, important or serious
MNES	Matters of National Environmental Significance under the Commonwealth EPBC Act
Negligible	Small and unimportant, such as to be not worth considering
Night	The period from 10 pm to 7 am on Monday to Saturday, and 10 pm to 8 am on Sundays and Public Holidays
Non-compliance	An occurrence, set of circumstances or development that is a breach of this consent
Planning Secretary	Planning Secretary under the EP&A Act, or nominee
POEO Act	<i>Protection of the Environment Operations Act 1997</i>
Privately-owned land	Land that is not owned by public agency or a mining, petroleum or extractive industry company (or its subsidiary or related party)
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
Quarrying operations	The extraction, processing, stockpiling and transportation of extractive materials on the site and the associated removal of vegetation, topsoil and overburden
Quarry products	Includes all saleable quarry products, but excludes wastes and rehabilitation material
Reasonable	Means applying judgement in arriving at a decision, taking into account: mitigation benefits, costs of mitigation versus benefits provided, community views, and the nature and extent of potential improvements
Registered Aboriginal Parties	As described in the <i>National Parks and Wildlife Regulation 2019</i>
Rehabilitation	The restoration of land disturbed by the development to a good condition, to ensure it is safe, stable and non-polluting
Residence	Existing or approved dwelling at the date of grant of this consent
RFS	NSW Rural Fire Service
Site	The Project Area shown in Appendix 2

TfNSW	Transport for NSW
Waste	Has the same meaning as the definition of the term in the Dictionary to the POEO Act

Recommended

SCHEDULE 2

PART A ADMINISTRATIVE CONDITIONS

OBLIGATION TO MINIMISE HARM TO THE ENVIRONMENT

- A1. In addition to meeting the specific performance measures and criteria in this consent, all reasonable and feasible measures must be implemented to prevent, and if prevention is not reasonable and feasible, minimise, any material harm to the environment that may result from the construction and operation of the development, and any rehabilitation required under this consent.

TERMS OF CONSENT

- A2. The development may only be carried out:
- (a) in compliance with the conditions of this consent;
 - (b) in accordance with all written directions of the Planning Secretary; and
 - (c) generally in accordance with the EIS and Development Layout.
- A3. Consistent with the requirements in this consent, the Planning Secretary may make written directions to the Applicant in relation to:
- (a) the content of any strategy, study, system, plan, program, review, audit, notification, report or correspondence submitted under or otherwise made in relation to this consent, including those that are required to be, and have been, approved by the Planning Secretary; and
 - (b) the implementation of any actions or measures contained in any such document referred to in condition A3(a).
- A4. The conditions of this consent and directions of the Planning Secretary prevail to the extent of any inconsistency, ambiguity or conflict between them and a document/s listed in condition A2(c). In the event of an inconsistency, ambiguity or conflict between any of the document/s listed in condition A2(c), the most recent document prevails to the extent of the inconsistency, ambiguity or conflict.

LIMITS OF CONSENT

Identification of Approved Extraction Area

- A5. At least one month before the commencement of construction:
- (a) a registered surveyor must be engaged to mark out the boundaries of the approved areas of extraction within the site (as set out in Appendix 2); and
 - (b) the Planning Secretary must be provided with a survey plan of such boundaries and their GPS coordinates.
- A6. The boundaries of the approved areas of extraction within the site must be clearly marked in a manner that allows them to be easily identified at all times during the carrying out of quarrying operations.

Quarrying Operations

- A7. Quarrying operations may be carried out on the site for a period of 30 years from the date of the commencement of the development.

Note: Under this consent, the Applicant is required to decommission and rehabilitate the site and carry out other requirements in relation to quarrying operations. Consequently, this consent will continue to apply in all respects other than to permit the carrying out of quarrying operations until the rehabilitation of the site and other requirements have been carried out to the required standard.

- A8. Extraction must remain at least 10 metres above the shale geological unit containing the regional groundwater system.
- A9. The Applicant must not extract more than 500,000 tonnes of hard rock quarry products at the site in each calendar year.

Transport Operations

- A10. The Applicant must not transport quarry products from the site until the requirements relating to the:
- (a) new quarry access road off The Bucketts Way to the quarry; and
 - (b) upgraded T-intersection at the junction of the new quarry access road and The Bucketts Way;
- in conditions B35 and B36 have been met to the satisfaction of the Planning Secretary.

A11. The Applicant must not transport quarry products from the site until the completion of works to upgrade the Limeburners Creek Bridge.

A11-A12. The Applicant must not transport more than 4,000 tonnes of quarry products in total from the site per day.

A12-A13. The Applicant must limit total truck movements at the site (i.e.. arrivals and dispatches) to a maximum of:

- (a) 250 truck movements per day; and

- (b) 50 truck movements per hour.

Note: Truck movements to and from the site are also controlled by the operating hours specified in condition A44A15.

A13.A14. The Applicant must ensure that:

- (a) no quarry-related vehicles use any portions of Deep Creek Road outside of the Project Area to access or leave the site during construction or quarrying operations;
- (b) vehicle movements along Forest Glen Road ~~do not exceed~~ *are kept to a minimum during construction; and*
- (i) *a once off, 8 heavy vehicles travelling to and from the site during construction; and*
- (b)(ii) *12 light vehicles accessing the site per day until the quarry access road is operational.*
- (c) no quarry-related vehicles use Forest Glen Road to access or leave the site during quarrying operations.

Note: *This condition does not apply during emergency situations when the roads may be required to be used to avoid the loss of lives, property, or to prevent environmental harm or to facilitate the necessary and urgent replacement of machinery.*

Hours of Operation

A14.A15. The Applicant must comply with the operating hours set out in Table 1.

Table 1: Operating hours

Activity	Permissible Operating Hours
Construction work	<ul style="list-style-type: none"> 7 am to 5 pm Monday to Friday 8 am to 1 pm Saturday At no time on Sundays or public holidays
Quarrying operations	<ul style="list-style-type: none"> 7 am to 5 pm Monday to Friday 8 am to 1:00 pm Saturday At no time on Sundays or public holidays
Loading and dispatch of product trucks	<ul style="list-style-type: none"> 6 am to 6 pm Monday to Friday 6 am to 1 pm Saturday At no time on Sundays or public holidays
Blasting	<ul style="list-style-type: none"> 9 am to 4 pm Monday to Friday At no time on Saturdays, Sundays or public holidays
Maintenance and environmental management	<ul style="list-style-type: none"> 24 hours per day, 7 days per week provided that these activities are not audible at any privately-owned residence if outside of the operational hours

A15.A16. The following activities may be carried out outside the hours and restrictions specified in Table 1:

- (a) delivery or dispatch of materials as requested by Police or other public authorities; and
- (b) emergency work to avoid the loss of lives, property or to prevent environmental harm.

In such circumstances, the Applicant must notify the Department and affected residents prior to undertaking the activities, or as soon as is practical thereafter.

NOTIFICATION OF COMMENCEMENT

A16.A17. The date of commencement of each of the following phases of the development must be notified to the Department in writing, at least one month before that date:

- (a) commencement of construction under this consent;
- (b) commencement of quarrying operations;
- (c) cessation of quarrying operations; and
- (d) any period of suspension of quarrying operations.

CONTRIBUTIONS TO COUNCILS

A17.A18. The Applicant must make annual financial contributions to Council and Port Stephens Council towards the maintenance of roads used for haulage of quarry products, where either council is the roads authority under the *Roads Act 1993*. The contributions must be determined in accordance with the relevant council local infrastructure contribution plan (including any updated or revised version of these plans) for local roads within the relevant local government area.

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A18-A19. If there is a dispute over the determination of the contributions in condition **A17A18**, the Applicant or the relevant council may refer the matter to the Planning Secretary for resolution. The decision of the Planning Secretary will be final.

COMMUNITY CONSULTATIVE COMMITTEE

A19-A20. Within 6 months from the date of commencement of development, a CCC must be established for the development in accordance with the Department's *Community Consultative Committee Guidelines: State Significant Projects* (2023) **and after consultation with Council on its experience with similar CCCs.**

EVIDENCE OF CONSULTATION

A21-A21. Where conditions of this consent require consultation with an identified party, the Applicant must:

- (a) consult with the relevant party prior to submitting the subject document; and
- (b) provide details of the consultation undertaken including:
 - (i) the outcome of that consultation, matters resolved and unresolved; and
 - (ii) details of any disagreement remaining between the party consulted and the Applicant and how the Applicant has addressed the matters not resolved.

STAGING, COMBINING AND UPDATING STRATEGIES, PLANS OR PROGRAMS

A22-A22. With the approval of the Planning Secretary, the Applicant may:

- (a) prepare and submit any strategy, plan or program required by this consent on a staged basis (if a clear description is provided as to the specific stage and scope of the development to which the strategy, plan or program applies, the relationship of the stage to any future stages and the trigger for updating the strategy, plan or program);
- (b) combine any strategy, plan or program required by this consent (if a clear relationship is demonstrated between the strategies, plans or programs that are proposed to be combined); and
- (c) update any strategy, plan or program required by this consent (to ensure the strategies, plans and programs required under this consent are updated on a regular basis and incorporate additional measures or amendments to improve the environmental performance of the development).

A23-A23. If the Planning Secretary agrees, a strategy, plan or program may be staged or updated without consultation being undertaken with all parties required to be consulted in this consent.

PROTECTION OF PUBLIC INFRASTRUCTURE

A23-A24. Unless the Applicant and the applicable authority agree otherwise, the Applicant must:

- (a) repair, or pay the full costs associated with repairing, any public infrastructure that is damaged by carrying out the development; and
- (b) relocate, or pay the full costs associated with relocating, any public infrastructure that needs to be relocated as a result of the development.

Note: This condition does not apply to any damage to roads or public infrastructure caused as a result of general road usage or otherwise addressed by contributions required by condition **A17A18** of this consent.

DEMOLITION

A24-A25. All demolition must be carried out in accordance with *Australian Standard AS 2601-2001 The Demolition of Structures* (Standards Australia, 2001).

STRUCTURAL ADEQUACY

A25-A26. All new buildings and structures, and any alterations or additions to existing buildings and structures, that are part of the development, must be constructed in accordance with the relevant requirements of the BCA.

Notes:

- Under Part 6 of the EP&A Act, the Applicant 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 development.

OPERATION OF PLANT AND EQUIPMENT

A26-A27. All plant and equipment used on site, or to monitor the performance of the development, must be:

- (a) maintained in a proper and efficient condition; and
- (b) operated in a proper and efficient manner.

COMPLIANCE

~~A27~~~~A28~~. The Applicant must ensure that all of its employees, contractors (and their sub-contractors) are made aware of, and are instructed to comply with, the conditions of this consent relevant to activities they carry out in respect of the development.

APPLICABILITY OF GUIDELINES

~~A28~~~~A29~~. References in the conditions of this consent to any guideline, protocol, Australian Standard or policy are to such guidelines, protocols, Standards or policies in the form they are in as at the date of this consent.

~~A29~~~~A30~~. However, consistent with the conditions of this consent and without altering any limits or criteria in this consent, the Planning Secretary may, when issuing directions under this consent in respect of ongoing monitoring and management obligations, require compliance with an updated or revised version of such a guideline, protocol, Standard or policy, or a replacement of them.

PRODUCTION DATA

~~A30~~~~A31~~. Each year, from the commencement of quarrying operations, the Applicant must provide calendar year quarry production data and an estimate of the remaining resource to MEG by no later than 30 January.

~~A31~~~~A32~~. The data referred to in condition ~~A30~~~~A31~~ must be provided using the relevant standard form and a copy of the data must be included in the Annual Review (required under condition D9).

CROWN ROADS

~~A32~~~~A33~~. Prior to the commencement of construction under this consent, the Applicant must transfer impacted portions of the Crown Road named Deep Creek Road to Council.

~~A33~~~~A34~~. Prior to undertaking any works within the portion of Crown Road dissecting Lot 472 DP 1162208, the Applicant must close and purchase that portion of Crown Road.

PART B SPECIFIC ENVIRONMENTAL CONDITIONS

NOISE

Operational Noise Criteria

- B1. The Applicant must ensure that the noise generated by the development does not exceed the criteria in Table 2 at any residence on privately-owned land.

Table 2: Operational noise criteria dB(A)

Noise Assessment Location	Day <i>L_{Aeq} (15 min)</i>	Night	
		<i>L_{Aeq} (15 min)</i>	<i>L_AF_{max}</i>
R30	40	36	52
All other privately-owned residences	40	35	52

Note: To identify the locations referred to in Table 2, refer to the 'Existing Receptor' points on the figure in Appendix 3.

- B2. Noise generated by the development must be measured in accordance with the relevant requirements and exemptions (including certain meteorological conditions) of the *NSW Noise Policy for Industry* (EPA, 2017). Appendix 4 sets out the meteorological conditions under which these criteria apply and the requirements for evaluating compliance with these criteria.
- B3. The noise criteria in Table 2 do not apply if the Applicant has an agreement with the owner/s of the relevant residence or land to exceed the noise criteria, and the Applicant has advised the Department in writing of the terms of this agreement.

Noise Operating Conditions

- B4. The Applicant must:
- take all reasonable steps to minimise all noise from construction, operational and road transport activities, including low frequency noise and other audible characteristics;
 - operate a comprehensive noise management system commensurate with the risk of impact to ensure compliance with the relevant conditions of this consent;
 - take all reasonable steps to minimise the noise impacts of the development during noise-enhancing meteorological conditions;
 - carry out ~~regular-attended~~ **real time** noise monitoring ~~(at least every three months, unless otherwise agreed with the Planning Secretary)~~ to determine whether the development is complying with the relevant conditions of this consent; and
 - ~~regularly~~ assess the **real time** noise monitoring data, and modify or stop operations on the site to ensure compliance with the relevant conditions of this consent.

Commented [IPC1]: The Commission's intention in this change is to ensure that the information available to the community is as contemporaneous as reasonably possible. The Commission proposes to establish access to real time noise monitoring for transparency and increased public confidence in the Applicant's management of noise.

Noise Management Plan

- B5. The Applicant must prepare a Noise Management Plan for the development. This plan must:
- be prepared by a suitably qualified and experienced person/s;
 - describe the measures to be implemented to ensure:
 - compliance with the noise criteria and operating conditions in this consent; and
 - best practice management is being employed;
 - include a monitoring program that:
 - is undertaken by a suitably qualified and experienced person/s;
 - uses ~~attended~~ **real time** monitoring to evaluate the performance of the development;
 - monitors noise at the nearest and/or most affected residences **existing at the date of this consent**;
 - adequately supports the noise management system; and
 - includes a protocol for identifying any noise-related exceedance, incident or non-compliance and for notifying the Department and relevant stakeholders of these events.
- B6. The Applicant must not commence construction or quarrying operations until the Noise Management Plan is approved by the Planning Secretary.
- B7. The Applicant must implement the approved Noise Management Plan.

BLASTING

Blasting Criteria

- B8. The Applicant must ensure that blasting on the site does not cause exceedances of the criteria in Table 3.

Table 3: Blasting criteria

Location	Airblast overpressure (dB(Lin Peak))	Ground vibration (mm/s)	Allowable exceedance
Any residence on privately- owned land	120	10	0%
	115	5	5% of the total number of blasts over a calendar year

- B9. The blasting criteria in Table 3 do not apply if the Applicant has an agreement with the owner/s of the relevant residence to exceed the blasting criteria, and the Applicant has advised the Department in writing of the terms of this agreement.

Blasting Frequency

- B10. The Applicant may carry out a maximum of 25 blasts per calendar year.
- B11. Condition B10 does not apply to blasts that generate ground vibration of 0.5 mm/s or less at any residence on privately-owned land, or to blast misfires or to blasts required to ensure the safety of the mine, its workers or the general public.

Notes:

- For the purposes of this condition, a blast refers to a single blast event, which may involve a number of individual blasts fired in quick succession in a discrete area of the quarry.
- For the avoidance of doubt, should an additional blast be required after a blast misfire, this additional blast and the blast misfire are counted as a single blast.

Property Inspections

- B12. If the Applicant receives a written request from the owner of any privately-owned land within 1 kilometre of any approved extraction area on the site for a property inspection to establish the baseline condition of any buildings and structures on their land, or to have a previous property inspection updated, then within 2 months of receiving this request the Applicant must:
- 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, or update the previous property inspection report; and
 - identify measures that should be implemented to minimise the potential blasting impacts of the development on these buildings and structures; and
 - give the landowner a copy of the new or updated property inspection report.
- B13. If there is a dispute over the selection of the suitably qualified, experienced and independent person, or the Applicant or the landowner disagrees with the findings of the property inspection report, either party may refer the matter to the Planning Secretary for resolution.

Property Investigations

- B14. If the owner of any privately-owned land within 2 kilometres of any approved extraction area on the site or any other landowner where the Planning Secretary is satisfied an investigation is warranted, claims in writing that buildings or structures on their land have been damaged as a result of blasting on the site, then within 2 months of receiving this written claim the Applicant must:
- 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.
- B15. If this independent property investigation confirms the landowner's claim, and both parties agree with these findings, then the Applicant must repair the damage to the satisfaction of the Planning Secretary.
- B16. If there is a dispute over the selection of the suitably qualified, experienced and independent person, or the Applicant or the landowner disagrees with the findings of the independent property investigation, then either party may refer the matter to the Planning Secretary for resolution.

Blast Operating Conditions

- B17. During blasting operations, the Applicant must:

- (a) take all reasonable steps to:
 - (i) ensure the safety of people and livestock from blasting impacts of the development;
 - (ii) protect public or private infrastructure and property in the vicinity of the site from blasting damage associated with the development; and
 - (iii) minimise blast-related dust and fume emissions;
- (b) operate a suitable system to enable members of the public to get up-to-date information on the proposed blasting schedule on the site and implement a protocol for investigating and responding to blast-related complaints;
- (c) identify any blast-related exceedance, incident or non-compliance and notify the Department and relevant stakeholders of these events; and
- (d) carry out regular blast monitoring to determine whether the development is complying with the relevant conditions of this consent.

AIR QUALITY

Odour

B18. The Applicant must ensure that no offensive odours are emitted from the site, as defined under the POEO Act.

Air Quality Criteria

B19. The Applicant must ensure that particulate matter emissions generated by the development do not cause exceedances of the criteria in Table 4 at any residence on privately-owned land.

Table 4: Air quality criteria

Pollutant	Averaging period	Criterion
Particulate matter < 10 µm (PM ₁₀)	Annual	^{a, c} 25 µg/m ³
	24 hour	^b 50 µg/m ³
Particulate matter < 2.5 µm (PM _{2.5})	Annual	^{a, c} 8 µg/m ³
	24 hour	^b 25 µg/m ³
Total suspended particulate (TSP) matter	Annual	^{a, c} 90 µg/m ³

Notes:

^a Total impact (i.e. incremental increase in concentrations due to the development plus background concentrations due to all other sources).

^b Incremental impact (i.e. incremental increase in concentrations due to the development on its own).

^c Excludes extraordinary events such as bushfires, prescribed burning, dust storms, fire incidents or any other activity agreed by the Planning Secretary.

B20. The air quality criteria in Table 4 do not apply if the Applicant has an agreement with the owner/s of the relevant residence or infrastructure to exceed the air quality criteria, and the Applicant has advised the Department in writing of the terms of this agreement.

Air Quality and Greenhouse Gas Operating Conditions

B21. The Applicant must:

- (a) take all reasonable steps to:
 - (i) minimise odour, fume, and dust (including PM₁₀ and PM_{2.5}) emissions of the development;
 - (ii) minimise any visible off-site air pollution generated by the development;
 - (iii) minimise the extent of potential dust generating surfaces exposed on the site at any given point in time; and
 - (iv) improve energy efficiency and minimise Scope 1 and Scope 2 greenhouse gas emissions generated by the development;
- (b) operate a comprehensive air quality management system that uses a combination of meteorological forecasting and air quality monitoring data to guide the day-to-day planning of quarrying operations and the implementation of both proactive and reactive air quality mitigation measures to ensure compliance with the relevant conditions of this consent;
- (c) minimise the air quality impacts of the development during adverse meteorological conditions and extraordinary events (see Note c to Table 4 above);

Commented [IPC2]: The Commission would like to know the reason why DPPI did not recommend the Applicant to prepare an air quality management plan as a condition of consent.

Commented [IPC3]: It is the Commission's understanding that respirable silica and diesel emissions are subject to and incorporated in these air quality criteria and will be detected by the existing recommended air quality monitoring system. Is this correct?

- (d) carry out routine air quality monitoring in accordance with the *Approved Methods for Sampling and Analysis of Air Pollutants in New South Wales* (EPA, 2022), no less frequently than every month to determine whether the development is complying with the relevant conditions in this consent; and
- (e) regularly assess meteorological and air quality monitoring data and relocate, modify or stop operations on the site to ensure compliance with the relevant conditions of this consent.

Quarry-owned Land

- B22. The Applicant must ensure that all reasonable and feasible avoidance and mitigation measures are employed so that particulate matter emissions generated by the development do not cause exceedances of the criteria in Table 4 at any occupied residence on quarry-owned land unless:
- (a) the tenant has been notified of any health risks associated with such exceedances in accordance with the notification requirements under Part C of this consent; and
 - (b) the tenant of any land owned by the Applicant can terminate their tenancy agreement without penalty at any time, subject to giving reasonable notice,
- to the satisfaction of the Planning Secretary.

METEOROLOGICAL MONITORING

- B23. Prior to the commencement of construction and for the life of the development, the Applicant must ensure that there is a suitable meteorological station operating in close proximity to the site that:
- (a) complies with the requirements in the *Approved Methods for Sampling and Analysis of Air Pollutants in New South Wales* (EPA, 2022); and
 - (b) is capable of measuring meteorological conditions in accordance with the *NSW Noise Policy for Industry* (EPA, 2017),
- unless a suitable alternative is approved by the Planning Secretary following consultation with the EPA.

SOIL AND WATER

Water Supply

- B24. The Applicant must ensure that it has sufficient water for all stages of the development, and if necessary, adjust the scale of the development, within the limits of consent set out in Part A of Schedule 2, to match its available water supply.
- B25. The Applicant must report on water take from the site each year (direct and indirect) in the Annual Review, including water taken under each water licence.
- Note:** Under the *Water Act 1912* and/or the *Water Management Act 2000*, the Applicant is required to obtain all necessary water licences for the development.

Compensatory Water Supply

- B26. The Applicant must provide a compensatory water supply to any landowner of privately-owned land whose rightful water supply is adversely and directly impacted (other than an impact that is minor or negligible) as a result of the development, in consultation with DPE Water, and to the satisfaction of the Planning Secretary.
- B27. The compensatory water supply measures must provide an alternative long term supply of water that is equivalent, in quality and volume, to the loss attributable to the development. Equivalent water supply should be provided (at least on an interim basis) as soon as practicable after the loss is identified, unless otherwise agreed with the landowner.
- B28. If the Applicant and the landowner cannot agree on whether the loss of water is to be attributed to the development or 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 Planning Secretary for resolution.
- B29. If the Applicant is unable to provide an alternative long term supply of water, then the Applicant must provide compensation, to the satisfaction of the Planning Secretary.
- Note:** The *Water Management Plan* (see condition B31) is required to include trigger levels for investigating potentially adverse impacts on water supplies.

Water Discharges

- B30. The Applicant must ensure that all surface water discharges from the site comply with all relevant provisions of the POEO Act, including any discharge limits (both volume and quality) set for the development in any EPL.

Water Management Plan

- B31. The Applicant must prepare a Water Management Plan for the development. This plan must:

- (a) be prepared by suitably qualified and experienced person/s whose appointment has been endorsed by the Planning Secretary;
- (b) be prepared in consultation with EPA and DPE Water; and
- (c) include a:
- (i) **Site Water Balance** that:
- includes details of:
 - sources and security of water supply;
 - water use and management on the site;
 - any off-site discharges or water transfers;
 - metering of water volumes in all water storages and volumes of water pumped between water storages and discharged off-site;
 - reporting procedures, including the annual preparation of a site water balance; and
 - minimises clean and potable water use on the site;
- (ii) **Surface Water Management Plan**, that includes:
- detailed baseline data on surface water flows, water quality, riparian condition and geomorphic stability in watercourses and/or water bodies that could potentially be affected by the development;
 - detailed information on predicted off-site discharges, including:
 - once constructed, baseline data on water quality in water storages on the site, including the quarry pit and sedimentation dams;
 - predicted discharge volumes, frequencies and rates;
 - dirty water treatment options to ensure compliance with condition B30;
 - measures to avoid, minimise or mitigate adverse water quality and geomorphological impacts of receiving waters from controlled discharges, including the downstream oyster aquaculture in consideration of the *Healthy Estuaries for Health Oysters – Guidelines* (HEHO 2017);
 - surface water impact assessment criteria, including trigger levels for investigating any potentially adverse impacts, and surface water management performance measures;
 - a detailed description of the surface water management system on the site, including the:
 - clean water diversion system;
 - erosion and sediment controls;
 - dirty water management system; and
 - water storages;
 - a program to monitor and report on:
 - any surface water discharges;
 - stream stability, riparian condition and geomorphic processes in receiving watercourses;
 - the effectiveness of the water management system;
 - surface water flows and quality in watercourses and/or waterbodies that could potentially be impacted by the development, including Deep Creek, Karuah River, the Port Stephens Marine Park and the downstream oyster aquaculture;
 - a protocol for identifying and investigating any exceedances of the surface water impact assessment criteria and for notifying the Department and relevant stakeholders of these events.
- (iii) **Groundwater Management Plan** that includes:
- detailed baseline data of localised groundwater levels, yield and quality for groundwater resources potentially impacted by the development, including groundwater supply for other water users and groundwater dependent ecosystems;
 - a detailed description of the groundwater management system, including ;
 - groundwater performance criteria, including trigger levels for investigating any potentially adverse groundwater impacts;
 - a program to periodically validate the groundwater model for the development in accordance with best practice methods, including an update of the model after the first 5 years of quarrying operations, and at least annual comparison of monitoring results with modelled predictions;
 - an expanded program to monitor and report on:
 - groundwater levels, yield and quality of groundwater resources potentially impacted by the development, including any groundwater associated with groundwater dependent ecosystems; between the quarry pit and Deep Creek; and downgradient of the petroleum storage area;

- groundwater inflows into the extraction area;
- seepage/leachate into the surrounding groundwater system;
- impacts of the development on groundwater dependent ecosystems; and
- impacts of the development on groundwater supply for other water users;
- a protocol for identifying and investigating any exceedances of the groundwater performance criteria and for notifying the Department and relevant stakeholders of these events; and
- a protocol to obtain appropriate water licence(s) to cover the volume of any unforeseen groundwater inflows into the extraction areas.

B32. The Applicant must not commence construction of the access road or quarrying operations until the Water Management Plan is approved by the Planning Secretary.

B33. The Applicant must implement the approved Water Management Plan.

TRANSPORT

Monitoring of Product Transport

B34. The Applicant must keep accurate records of all ~~laden~~ truck movements to and from the site (i.e. arrivals and dispatches) (including hourly truck movements) and publish a summary of these records on its website every 6 months.

Quarry Access Road and Intersection

B35. Prior to transporting any quarry products from the site, the Applicant must:

- (a) construct the new quarry access road off The Buckets Way to allow heavy vehicle access directly to the site and provide legal access for Lot 30 DP753178 and Lot 41 DP753178 at the northern end of Deep Creek Road; and
- (b) upgrade the T-intersection at the junction of the new quarry access road and The Buckets Way, as described in the EIS.

B36. The Applicant must ensure the access road and intersection works required under condition B35 are designed and constructed:

- (a) in accordance with:
 - (i) the latest Austroads standards;
 - (ii) the guidance series for "Controlled Activities- Guidelines for Watercourse Crossings on Waterfront Land" (DPI Water 2012);
 - (iii) "Why do Fish Need to Cross the Road? Fish Passage Requirements for Waterway Crossings" (DPI Fisheries 2003);
 - (iv) "Policy and Guidelines for Fish Habitat Conservation and Management" (DPI Fisheries 2013); and
- (b) in consultation with DPI Fisheries and Council.

Transport Operating Conditions

B37. The Applicant must:

- (a) ensure that all laden trucks entering or exiting the site have their loads covered; and
- (b) take all reasonable steps to minimise traffic safety issues and disruption to local road users.

Traffic Management Plan

B38. The Applicant must prepare a Traffic Management Plan for the development. This plan must:

- (a) be prepared by suitably qualified and experienced person/s;
- (b) be prepared in consultation with TfNSW, Council and Port Stephens Council;
- (c) include details of:
 - (i) construction related traffic management measures;
 - (ii) all transport routes and traffic types to be used for development-related traffic, including identification of bridge load restrictions and the route to be used by heavy vehicles as detailed in the EIS;
 - (iii) processes in place for the control of truck movements entering and exiting the site, including during peak holiday periods;
 - (iv) measure to mitigate the impact of heavy vehicle movements on the performance of The Buckets Way and Pacific Highway intersection, including during peak holiday periods; and
 - (v) measures to be implemented to:

- ensure compliance with the traffic operating conditions and other traffic related conditions of this consent;
 - manage the traffic impacts from contractors and subcontractors;
 - minimise traffic safety issues and disruption to local road users, including minimising potential for conflict with school bus operations;
 - minimise the transmission of dust and tracking of material onto the surface of public roads from vehicles exiting the site;
 - monitor driver behaviour; and
 - participate in transport management investigations initiated by Council or Port Stephens Council;
- (d) include a Drivers' Code of Conduct that includes procedures to ensure that drivers:
- (i) adhere to posted speed limits or other required travelling speeds;
 - (ii) adhere to designated transport routes and travel times; ~~and~~
 - (iii) implement safe and quiet driving practices, including restriction on the use of compression braking; and
 - (iii)(iv) minimise noise, pollution and queueing by not arriving early to the site.
- (e) describe the measures to be put in place to ensure compliance with the Drivers' Code of Conduct.

B39. The Applicant must not commence construction or quarrying operations until the Traffic Management Plan is approved by the Planning Secretary.

B40. The Applicant must implement the approved Traffic Management Plan.

HERITAGE

Protection of Aboriginal Heritage

B41. The Applicant must ensure that the development does not cause any direct or indirect impact on any identified Aboriginal object or Aboriginal place located outside the approved disturbance areas, beyond those predicted in the document/s listed in condition A2(c).

B42. If suspected human remains are discovered on the site, then all work surrounding the area must cease, and the area must be secured. The Applicant must immediately notify NSW Police Force and Heritage NSW, and work must not recommence in the area until authorised by NSW Police Force and Heritage NSW.

B43. The Applicant must:

- (a) ensure that all known Aboriginal objects or Aboriginal places on the site are properly recorded, those records are kept up to date and are reported to the Aboriginal Heritage Information Management System.
- (b) ensure all workers receive suitable Aboriginal cultural heritage training/inductions prior to carrying out any activities which may cause impacts to Aboriginal objects or Aboriginal places, and that suitable records are kept of these inductions;
- (c) protect, monitor and manage identified Aboriginal objects and Aboriginal places within the approved disturbance areas in accordance with the commitments made in the document/s listed in condition A2(c); and
- (d) facilitate ongoing consultation and involvement of Registered Aboriginal Parties in the conservation and management of Aboriginal cultural heritage on the site.

BIODIVERSITY AND REHABILITATION

Biodiversity Offset Strategy

B44. The Applicant must retire the biodiversity credits specified in Table 5 prior to commencing vegetation clearing.

The retirement of credits must be carried out in consultation with BCD and in accordance with the Biodiversity Offset Scheme of the BC Act¹. To the extent possible and if permissible under the BC Act, the required species and ecosystems credits must be retired:

- (a) Within the wider project locality (within a 20-kilometre radius of the subject land); and
- (b) In a manner that expands the area of conserved land around existing public or private conservation areas and/or within lands of identified wildlife connectivity.

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Table 5: Biodiversity credit requirements

Credit Type	Credits Required
Ecosystem Credits	

Credit Type	Credits Required
Plant Community Type (PCT) 1556 Tallowwood - Smooth-barked Apple - Blackbutt grass tall open forest of the Central and lower North Coast	5
PCT 1567: Tallowwood - Brush Box - Sydney Blue Gum moist shrubby tall open forest on foothills of the lower North Coast	52
PCT 1590: Spotted Gum - Broad-leaved Mahogany - Red Ironbark shrubby open forest	321
PCT 1619: Smooth-barked Apple - Red Bloodwood - Brown Stringybark – Hairpin Banksia heathy open forest of coastal lowlands	166
Species Credits	
<i>Tetradlea juncea</i> (Black-eyed Susan)	577
<i>Callistemon linearifolius</i> (Netted Bottlebrush)	92
<i>Phascolarctos cinereus</i> (Koala)	736
<i>Myotis macropus</i> (Southern Myotis)	409
<i>Petaurus norfolcensis</i> (Squirrel Glider)	714

¹ The available credit retirement options for the development include purchase and retirement of open market available biodiversity credits, payment into the Biodiversity Conservation Fund or establishment of a Biodiversity Stewardship Site(s). Credits retired for impacts on EPBC Act listed species and associated habitat must be like-for-like.

Note: With the approval of the Planning Secretary and in consultation with BCD, the retirement of credits can be staged to align with progressive vegetation clearing.

B45. Prior to the commencement of native vegetation clearing, the Applicant must:

- (a) plant a minimum of 450900 preferred *Phascolarctos cinereus* (Koala) feed trees within its landholding and within or adjacent to land along the Deep Creek riparian corridor, ensuring feed trees are properly established and maintained, and replaced if lost; and
- (b) erect nest boxes in retained vegetation at a ratio of one nest box for each tree hollow removed by the development.

Biodiversity Stewardship Site

B46. The Applicant must retire at least part of the biodiversity credits specified in Table 5 via the establishment of a Biodiversity Stewardship Site covering an area of 235 hectares of land within its land holding on the western and southern portion of the site.

B47. The Applicant must make suitable arrangements to provide long-term security and management funding for the Biodiversity Stewardship Site identified in B46 and any others incorporated in the future in accordance with the Biodiversity Offset Scheme of the BC Act, to the satisfaction of the Planning Secretary and BCD.

B47-B48. Prior to the commencement of operations, the Applicant must finalise and report to the Secretary on any arrangements relating to the potential acquisition of the additional Biodiversity Stewardship Site as set out in the Response to Submissions Report, to the satisfaction of the Secretary.

Biodiversity Management Plan

B48-B49. The Applicant must prepare a Biodiversity Management Plan for the development. This plan must:

- (a) be prepared by suitably qualified and experienced person/s;
- (b) be prepared in consultation with DCCEW, BCD and Council;
- (c) describe the short, medium, and long-term measures to be undertaken to:
 - (i) implement the Biodiversity Offset Strategy, including how significantly impacted species under the EPBC Act would be suitably offset on a like for like basis; and
 - (ii) manage the remnant vegetation and fauna habitat on the site;
- (d) include:

- (i) a New Holland Mouse Relocation Plan which provides details of:
 - an optimum habitat model to assist identification of potential sites for relocation / translocation of the disturbed local New Holland Mouse population;
 - timing and methodology for the relocation / translocation of the disturbed local New Holland Mouse population;
- (ii) a Black-eyed Susan Plan of Management which provides details of:
 - ongoing monitoring of the Black-eyed Susan plants to be retained beside the quarry pit area to check for their on-going health and persistence under changed hydrological conditions;
 - the offsetting regime that would be implemented in accordance with the Biodiversity Offsets Scheme of the BC Act if a change (partial or full direct impacts) in the plants is detected and found to be caused by changed hydrological conditions associated with the development;
- (iii) long term monitoring and management program of the local New Holland Mouse and Black-eyed Susan populations, including in the Biodiversity Stewardship Site, to:
 - identify key threats to the species;
 - assess the effectiveness of management actions and the need to adapt them, if necessary;
 - detect and, if necessary, remove invasive weeds that could be a threat to the species;
 - detect and control the presence of feral pigs and other feral animals, and *Phytophthora cinnamomic*; and
 - manage fire to ensure that the local populations have access to appropriate age classes of vegetation and areas of suitable habitat.
- (iv) a Koala Plan of Management to mitigate impacts on the Koala, which includes measures relating to compensatory feed tree planting, fauna movement structures, onsite speed limits and signage. The Plan shall guide the actions that conserve a viable local population of the Koala on the site and adjacent biodiversity stewardship land;
- (e) include a detailed description of the measures to be implemented on the site to:
 - (i) enhance the quality of existing vegetation, vegetation connectivity and fauna habitat, including through the assisted regeneration and/or targeted revegetation of appropriate canopy, sub-canopy, understorey and ground strata;
 - (ii) maximise the salvage of resources within the approved disturbance area, including tree hollows, vegetative and soil resources, for beneficial reuse on site, including fauna habitat enhancement;
 - (iii) minimise impacts on tree hollows where reasonable and feasible;
 - (iv) minimise impacts on fauna, including undertaking pre-clearance surveys;
 - (v) manage potential indirect impacts on threatened plant and animal species;
 - (vi) introduce naturally scarce fauna habitat features such as den structures, nest boxes and salvaged tree hollows, and promote the use of these introduced habitat features by threatened fauna species;
 - (vii) protect vegetation and fauna habitat outside the approved disturbance area;
 - (viii) establish and/or retain vegetation screening to minimise the visual impacts of the development on surrounding receivers;
 - (ix) control weeds and feral pests, with consideration of actions identified in relevant threat abatement plans;
 - (x) manage the collection and propagation of seed;
 - (xi) control unrestricted access; and
 - (xii) manage bushfire hazards;
- (f) set out activities and responsibilities associated with the clearing of vegetation and habitat for the development, including but not limited to: defining the limits of clearing, establishing ecological supervision and reporting requirements, hollow-bearing tree management activities, and the protocols and processes to be deployed during all the clearing activities.
- (f)(g) include a seasonally-based program to monitor and report on the effectiveness of biodiversity measures, and any progressive improvements that could be implemented to improve biodiversity outcomes;
- (g)(h) monitor and report on the impacts of the development on groundwater dependent ecosystems and riparian vegetation, and identify trigger levels for the remediation of any material impacts to these ecosystems; and
- (h)(i) include details of who would be responsible for monitoring, reviewing, and implementing the plan.

B49-B50. The Applicant must not commence construction of the access road or quarrying operations until the Biodiversity Management Plan is approved by the Planning Secretary.

B50-B51. The Applicant must implement the approved Biodiversity Management Plan.

Rehabilitation Objectives

B51-B52. The Applicant must rehabilitate the site to the satisfaction of the Planning Secretary. This rehabilitation must be consistent with the rehabilitation strategy set out in the EIS and the conceptual rehabilitation plan in Appendix 5 and must comply with the objectives in Table 6.

Table 6: Rehabilitation objectives

Feature	Objective
All areas of the site affected by the development	<ul style="list-style-type: none">• Safe• Hydraulically and geotechnically stable• Non-polluting• Fit for the intended post-quarrying operations land use(s)• Final landform integrated with surrounding natural landforms as far as is reasonable and feasible, and minimising visual impacts when viewed from surrounding land
Surface infrastructure areas	<ul style="list-style-type: none">• All infrastructure decommissioned and removed, unless otherwise agreed by the Planning Secretary• Landscaped and vegetated using native grassland and woodland species• Tree species to include Koala feed species
Quarry benches and pit floor	<ul style="list-style-type: none">• Landscaped and vegetated using native grassland and woodland species• Free draining pit floor
Riparian corridors along Deep Creek and its tributaries	<ul style="list-style-type: none">• Stabilised and revegetated
Final void	<ul style="list-style-type: none">• Minimise the size, depth and slope of the batters of the final void• Minimise the drainage catchment of the final void

Note: The rehabilitation objectives related to the establishment of native vegetation communities do not constitute an obligation or biodiversity offset purposes. Biodiversity offsets obligations in relation to development approved under this consent are regulated by conditions B45 and B46.

Progressive Rehabilitation

B52-B53. The Applicant must rehabilitate the site progressively, that is, as soon as reasonably practicable following disturbance. All reasonable steps must be taken to minimise the total area exposed at any time. Interim stabilisation and temporary vegetation strategies must be employed when areas prone to dust generation, soil erosion and weed incursion cannot be permanently rehabilitated.

Note: It is accepted that some parts of the site that are progressively rehabilitated may be subject to further disturbance at some later stage of the development.

Rehabilitation Management Plan

B53-B54. Within 12 months of commencement of development under this consent, the Applicant must prepare a Rehabilitation Management Plan for the development to the satisfaction of the Planning Secretary. This plan must:

- be prepared by suitably qualified and experienced person/s;
- describe the short, medium, and long-term measures to be undertaken to ensure compliance with the rehabilitation objectives in this consent;
- include a conceptual closure plan that considers the hydrological and hydraulic impacts of the final landform;
- include detailed performance and completion criteria for evaluating the performance of rehabilitation of the site, including triggers for remedial action, where these performance or completion criteria are not met;
- include a seasonally-based program to monitor and report on the effectiveness of rehabilitation measures, progress against the detailed performance and completion criteria, and any progressive improvements that could be implemented to improve rehabilitation outcomes;
- monitor and report on the impacts of the development on groundwater dependent ecosystems and riparian vegetation, and identify trigger levels for the remediation of any material impacts to these ecosystems;
- identify the potential risks to the successful implementation of the final rehabilitation, and include a description of the contingency measures to be implemented to mitigate against these risks; and
- include details of who would be responsible for monitoring, reviewing, and implementing the plan.

B54-B55. The Applicant must implement the approved Rehabilitation Management Plan.

Rehabilitation Bond

B55-B56. Within 6 months of the approval of the Rehabilitation Management Plan, the Applicant must lodge a Rehabilitation Bond with the Department to ensure that the rehabilitation of the site is undertaken in accordance with the performance and completion criteria set out in the plan and the relevant conditions of this consent. The sum of the bond must be an amount agreed to by the Planning Secretary and determined by:

- (a) calculating the cost of rehabilitating all existing and immediately proposed disturbed areas of the site (taking into account likely surface disturbance over the next 3 years of quarrying operations); and
- (b) employing a suitably qualified, independent and experienced person to verify the calculated costs.

B56-B57. The calculation of the Rehabilitation Bond must be submitted to the Department for approval at least 1 month prior to the proposed lodgement of the bond.

B57-B58. The Rehabilitation Bond must be reviewed and if required, an updated bond must be lodged with the Department within 3 months following:

- (a) any update or revision to the Rehabilitation Management Plan;
- (b) completion of an Independent Environmental Audit in which recommendations relating to rehabilitation have been made; or
- (c) a request by the Planning Secretary.

B58-B59. If rehabilitation of this site is completed generally in accordance with the relevant performance and completion criteria, to the satisfaction of the Planning Secretary, the Planning Secretary will release the bond.

B59-B60. If rehabilitation of the site is not completed generally in accordance with the relevant performance and completion criteria, the Planning Secretary will call in all, or part of, the bond, and arrange for the completion of the relevant works.

SOCIAL

Social Impact Management Plan

B60-B61. Within 6 months of commencement of development under this consent, the Applicant must prepare a Social Impact Management Plan for the development to the satisfaction of the Planning Secretary. This plan must:

- (a) be prepared by suitably qualified and experienced person/s;
- (b) be developed in consultation with Council, the CCC, affected stakeholders and other interested parties, to the greatest extent practicable;
- (c) include a summary of the social baseline and assessment of social impacts and risks, including the social impact ratings;
- (d) include a Stakeholder Engagement Strategy including details about proposed communications with relevant stakeholders, including the most impacted community groups and individuals;
- (e) describe the measures that would be implemented to enhance the positive social impacts of the development;
- (f) describe the measures that would be implemented to manage and mitigate negative social impacts;
- (g) include a program to monitor, review and report on the effectiveness of these measures including:
 - (i) identifying performance indicators, incorporating a trigger-action-response-plan;
 - (ii) three-yearly independent surveys of local community attitudes concerning the development (unless the Planning Secretary agrees to less frequent surveys);
 - (iii) procedures for analysing and comparing the results of monitoring and surveys against the predicted social impacts and results of previous monitoring and surveys;
 - (iv) adaptive strategies throughout the life of the development; and
 - (v) undertaking additional research, if necessary, to address new or changed social risks and impacts.

B61-B62. The Applicant must implement the approved Social Impact Management Plan.

VISUAL

B62-B63. The Applicant must:

- (a) take all reasonable steps to minimise the visual and off-site lighting impacts of the development;
- (b) ensure that all external lighting associated with the development complies with relevant Australian Standards including *Australian Standard AS4282 (INT) 1997 – Control of Obtrusive Effects of Outdoor Lighting*;
- (c) ensure that the visual appearance of all buildings, structures, facilities or works (including paint colours and specifications) is aimed at blending as far as possible with the surrounding landscape; and
- (d) take all reasonable steps to shield views of quarrying operations and associated equipment from users of public roads and privately-owned residences.

WASTE

B63-B64. The Applicant must:

- (a) manage on-site sewage treatment and disposal in accordance with the requirements of an applicable EPL, and to the satisfaction of EPA;
- (b) classify all waste in accordance with the *Waste Classification Guidelines* (EPA, 2014);
- (c) minimise the waste generated by the development;
- (d) ensure that the waste generated by the development is appropriately stored, handled, and disposed of; and
- (e) monitor and report on waste minimisation and management in the Annual Review referred to in condition D9.

B64-B65. Except as expressly permitted in an applicable EPL, specific resource recovery order or exemption under the *Protection of the Environment Operations (Waste) Regulation 2014*, the Applicant must not receive waste at the site for storage, treatment, processing, reprocessing or disposal.

LIQUID STORAGE

B65-B66. The Applicant must ensure that all tanks and similar storage facilities (other than for water) are protected by appropriate bunding or other containment, in accordance with the relevant Australian Standards.

DANGEROUS GOODS

B66-B67. The Applicant must ensure that the storage, handling, and transport of dangerous goods is done in accordance with the latest version of the Australian Standards, particularly *AS 1940-2004 The storage and handling of flammable and combustible liquids* (Standards Australia, 2004) and *AS/NZS 1596:2014 The storage and handling of LP Gas* (Standards Australia, 2014), and the *Australian Dangerous Goods Code*.

BUSHFIRE MANAGEMENT

B67-B68. The Applicant must:

- (a) ensure that the development:
 - (i) provides for asset protection in accordance with the relevant requirements in *the Planning for Bushfire Protection* (RFS, 2019) guideline; and
 - (ii) ensure that there is suitable equipment to respond to any fires on the site; and
- (b) assist the RFS and emergency services to the extent practicable if there is a fire in the vicinity of the site.

PART C ADDITIONAL PROCEDURES

NOTIFICATION OF EXCEEDANCES

- C1. As soon as practicable and no longer than 7 days after obtaining monitoring results showing an exceedance of any noise, blasting or air quality criterion in PART B of this consent, the Applicant must:
- (a) provide to any affected landowners and tenants; and
 - (b) publish on its website
- the full details of the exceedance.
- C2. For any exceedance of any air quality criterion in PART B of this consent, the Applicant must also provide to any affected landowners and tenants a copy of the fact sheet entitled "*Mine Dust and You*" (NSW Minerals Council, 2011).

INDEPENDENT REVIEW

- C3. If a landowner considers the development to be exceeding any noise, blasting or air quality criterion in PART B of this consent, they may ask the Planning Secretary in writing for an independent review of the impacts of the development on their land.
- C4. If the Planning Secretary is not satisfied that an independent review is warranted, the Planning Secretary will notify the landowner in writing of that decision, and the reasons for that decision, within 21 days of the request for a review.
- C5. If the Planning Secretary is satisfied that an independent review is warranted, within 3 months of the Planning Secretary's decision, or as otherwise agreed by the Planning Secretary and the landowner, the Applicant must:
- (a) commission a suitably qualified, experienced and independent person, whose appointment has been approved by the Planning Secretary, to:
 - (i) consult with the landowner to determine their concerns;
 - (ii) conduct monitoring to determine whether the development is complying with the relevant criteria in PART B of this consent; and
 - (iii) if the development is not complying with any relevant criterion, identify measures that could be implemented to ensure compliance with that criterion;
 - (b) give the Planning Secretary and landowner a copy of the independent review; and
 - (c) comply with any written requests made by the Planning Secretary to implement any findings of the review.

PART D ENVIRONMENTAL MANAGEMENT, REPORTING AND AUDITING

ENVIRONMENTAL MANAGEMENT

Environmental Management Strategy

- D1. An Environmental Management Strategy must be prepared for the development. This strategy must:
- (a) provide the strategic framework for environmental management of the development;
 - (b) identify the statutory approvals that apply to the development;
 - (c) set out the role, responsibility, authority and accountability of all key personnel involved in the environmental management of the development;
 - (d) set out the procedures to be implemented to:
 - (i) keep the local community and relevant agencies informed about the operation and environmental performance of the development, including reporting on the results of the air quality monitoring as detailed in condition B21(d) at appropriate intervals but no less frequently than every month;
 - (ii) receive record, handle and respond to complaints;
 - (iii) resolve any disputes that may arise during the course of the development;
 - (iv) respond to any non-compliance and any incident;
 - (v) respond to emergencies; and
 - (e) include:
 - (i) references to any strategies, plans and programs approved under the conditions of this consent; and
 - (ii) a clear plan depicting all the monitoring to be carried out under the conditions of this consent.
- D2. The Applicant must not commence construction or quarrying operations until the Environmental Management Strategy is approved by the Planning Secretary.
- D3. The Applicant must implement the approved Environmental Management Strategy.

Management Plan Requirements

- D4. Management plans required under this consent must be prepared in accordance with relevant guidelines, and include:
- (a) a summary of relevant background or baseline data;
 - (b) details of:
 - (i) the relevant statutory requirements (including any relevant approval, licence or lease conditions);
 - (ii) any relevant limits or performance measures and criteria; and
 - (iii) the specific performance indicators that are proposed to be used to judge the performance of, or guide the implementation of, the development or any management measures;
 - (c) a description of the measures to be implemented to comply with the relevant statutory requirements, limits, or performance measures and criteria;
 - (d) a program to monitor and report on the:
 - (i) impacts and environmental performance of the development; and
 - (ii) effectiveness of the management measures set out pursuant to condition D4(c);
 - (e) a contingency plan to manage any unpredicted impacts and their consequences and to ensure that ongoing impacts reduce to levels below relevant impact assessment criteria as quickly as possible;
 - (f) a program to investigate and implement ways to improve the environmental performance of the development over time;
 - (g) a protocol for managing and reporting any:
 - (i) incident, non-compliance or exceedance of the impact assessment criteria or performance criteria;
 - (ii) complaint; or
 - (iii) failure to comply with statutory requirements; and
 - (h) a protocol for periodic review of the plan.

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

REVISION OF STRATEGIES, PLANS AND PROGRAMS

- D5. Within three months of:
- (a) the submission of an incident report under condition D7;
 - (b) the submission of an Annual Review under condition D9;

- (c) the submission of an Independent Environmental Audit under condition D11;
 - (d) the approval of any modification of the conditions of this consent;
 - (e) notification of a change in development stage under condition A20A21; or
 - (f) the issue of a direction of the Planning Secretary under condition A2(b) which requires a review,
- the suitability of existing strategies, plans and programs required under this consent must be reviewed by the Applicant.

- D6. If necessary, to either improve the environmental performance of the development, cater for a modification or comply with a direction, the strategies, plans and programs required under this consent must be revised, to the satisfaction of the Planning Secretary and submitted to the Planning Secretary for approval within six weeks of the review.

Note: *This is to ensure strategies, plans and programs are updated on a regular basis and to incorporate any recommended measures to improve the environmental performance of the development.*

REPORTING AND AUDITING

Incident Notification

- D7. The Planning Secretary must be notified in writing via the Major Projects Portal immediately after the Applicant becomes aware of an incident. The notification must identify the development (including the application number and the name of the development if it has one) and set out the location and nature of the incident. Subsequent notification requirements must be given, and reports submitted in accordance with the requirements set out in Appendix 6.

Non-Compliance Notification

- D8. The Planning Secretary must be notified in writing via the Major Projects Portal within seven days after the Applicant becomes aware of any non-compliance. A non-compliance notification must identify the development and the application number for it, set out the condition of the consent that the development is non-compliant with, the way in which it does not comply and the reasons for the non-compliance (if known) and what actions have been, or will be, undertaken to address the non-compliance.

Note: *A non-compliance which has been notified as an incident does not need to also be notified as a non-compliance.*

Annual Review

- D9. By the end of March in each year after the commencement of development, or other timeframe agreed by the Planning Secretary, a report must be submitted to the Department reviewing the environmental performance of the development, to the satisfaction of the Planning Secretary. This review must:
- (a) describe the development (including any rehabilitation) that was carried out in the previous calendar year, and the development that is proposed to be carried out over the current calendar year;
 - (b) include a comprehensive review of the monitoring results and complaints records of the development over the previous calendar year, including a comparison of these results against the:
 - (i) relevant statutory requirements, limits or performance measures/criteria;
 - (ii) requirements of any plan or program required under this consent;
 - (iii) monitoring results of previous years; and
 - (iv) relevant predictions in the documents listed condition A2(c).
 - (c) identify any non-compliance or incident which occurred in the previous calendar year, and describe what actions were (or are being) taken to rectify the non-compliance and avoid reoccurrence;
 - (d) evaluate and report on:
 - (i) the effectiveness of the noise and air quality management systems; and
 - (ii) compliance with the performance measures, criteria and operating conditions in this consent;
 - (e) identify any trends in the monitoring data over the life of the development;
 - (f) identify any discrepancies between the predicted and actual impacts of the development, and analyse the potential cause of any significant discrepancies; and
 - (g) describe what measures will be implemented over the current calendar year to improve the environmental performance of the development.
- D10. Copies of the Annual Review must be submitted to Council and made available to the CCC and any interested person upon request.

Independent Environmental Audit

- D11. Within one year of the commencement any development under this consent, and every three years after, unless the Planning Secretary directs otherwise, the Applicant must commission and pay the full cost of an Independent Environmental Audit of the development. The audit must:

- (a) be led and conducted by a suitably qualified, experienced and independent team of experts whose appointment has been endorsed by the Planning Secretary;
 - (b) be carried out in consultation with the relevant agencies and the CCC;
 - (c) assess the environmental performance of the development and whether it is complying with the relevant requirements in this consent, water licences and EPL for the development (including any assessment, strategy, plan or program required under these approvals);
 - (d) review the adequacy of any approved strategy, plan or program required under this consent and the other abovementioned approvals;
 - (e) recommend appropriate measures or actions to improve the environmental performance of the development and any assessment, strategy, plan or program required under this consent and the other abovementioned approvals; and
 - (f) be conducted and reported to the satisfaction of the Planning Secretary.
- D12. Within three months of commencing an Independent Environmental Audit, or within another timeframe agreed by the Planning Secretary, the Applicant must submit a copy of the audit report to the Planning Secretary, and any other NSW agency that requests it, together with its response to any recommendations contained in the audit report, and a timetable for the implementation of the recommendations. The recommendations must be implemented to the satisfaction of the Planning Secretary.

Note: The audit team must be led by a suitably qualified auditor and include experts in any fields specified by the Planning Secretary.

Monitoring and Environmental Audits

- D13. Any condition of this consent that requires the carrying out of monitoring or an environmental audit, whether directly or by way of a plan, strategy or program, is taken to be a condition requiring monitoring or an environmental audit under Division 9.4 of Part 9 of the EP&A Act. This includes conditions in respect of incident notification, reporting and response, non-compliance notification, compliance report and independent audit.

For the purposes of this condition, as set out in the EP&A Act, "monitoring" is monitoring of the development to provide data on compliance with the consent or on the environmental impact of the development, and an "environmental audit" is a periodic or particular documented evaluation of the development to provide information on compliance with the consent or the environmental management or impact of the development.

- D14. Noise, blast and/or air quality monitoring under this consent may be undertaken at suitable representative monitoring locations instead of at privately-owned residences or other locations listed in PART B of this consent, providing that these representative monitoring locations are set out in the respective management plan/s.

ACCESS TO INFORMATION

- D15. Before the commencement of construction until the completion of all rehabilitation required under this consent, the Applicant must:

- (a) make the following information and documents (as they are obtained, approved or as otherwise stipulated within the conditions of this consent) publicly available on its website:
 - (i) the document/s listed in condition A2(c);
 - (ii) all current statutory approvals for the development;
 - (iii) all approved strategies, plans and programs required under the conditions of this consent;
 - (iv) minutes of CCC meetings;
 - (v) regular reporting on the environmental performance of the development in accordance with the reporting requirements in any plans or programs approved under the conditions of this consent;
 - (vi) a comprehensive summary of the monitoring results of the development, reported in accordance with the specifications in any conditions of this consent, or any approved plans and programs;
 - (vii) a summary of the current stage and progress of the development;
 - (viii) contact details to enquire about the development or to make a complaint;
 - (ix) a complaints register, updated monthly;
 - (x) the Annual Reviews of the development;
 - (xi) audit reports prepared as part of any Independent Environmental Audit of the development and the Applicant's response to the recommendations in any audit report;
 - (xii) any other matter required by the Planning Secretary; ~~and~~

(b) keep such information up to date, to the satisfaction of the Planning Secretary; ~~and~~

~~(b)(c)~~ make the Applicant's website known to assessed sensitive receivers (those set out in the EIS), including a summary of website contents as set out in condition D15(a).

APPENDIX 1: SCHEDULE OF LAND

Lot 472 DP 1162208

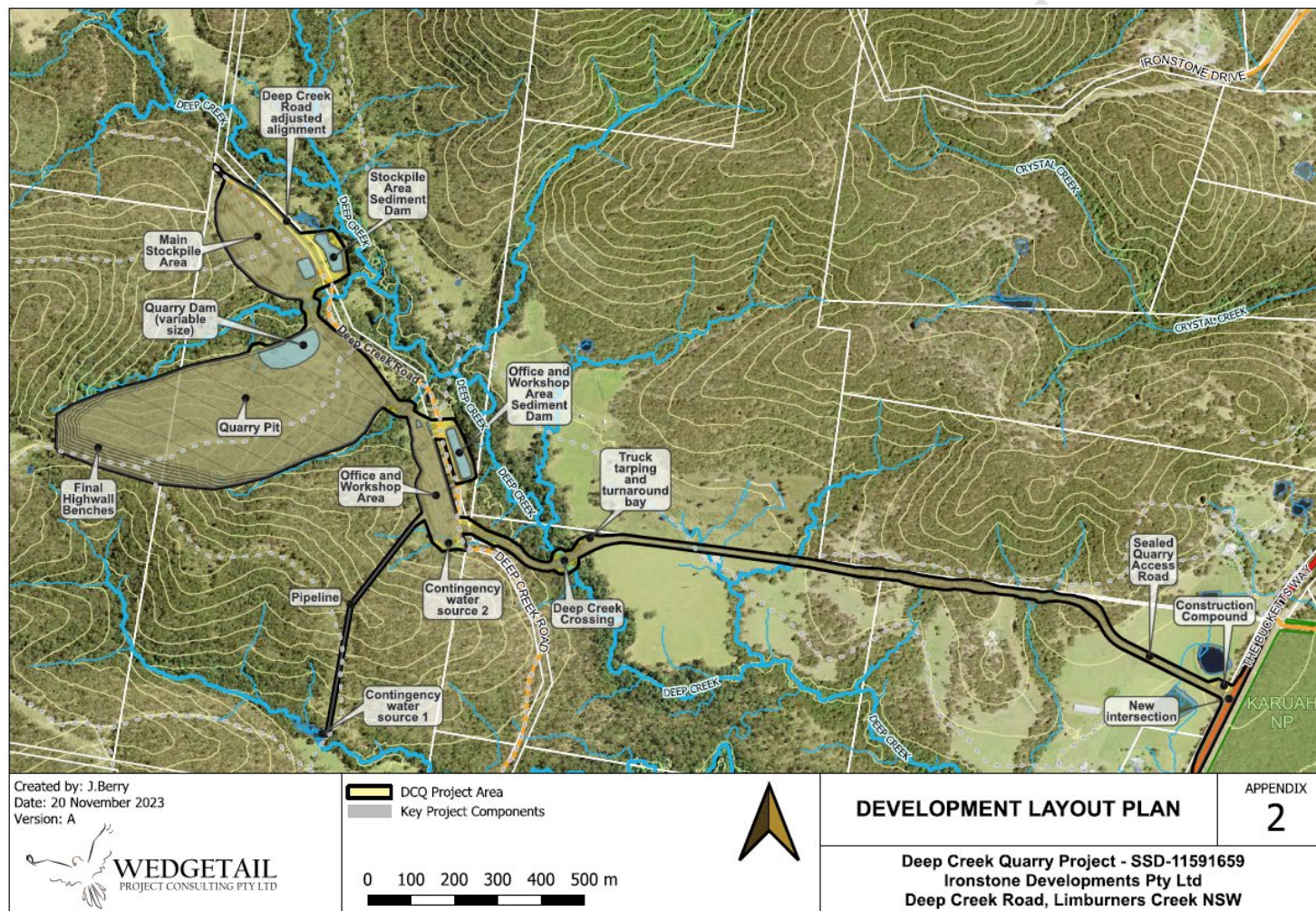
Lot 48 DP 753178

Lot 551 DP 1238818

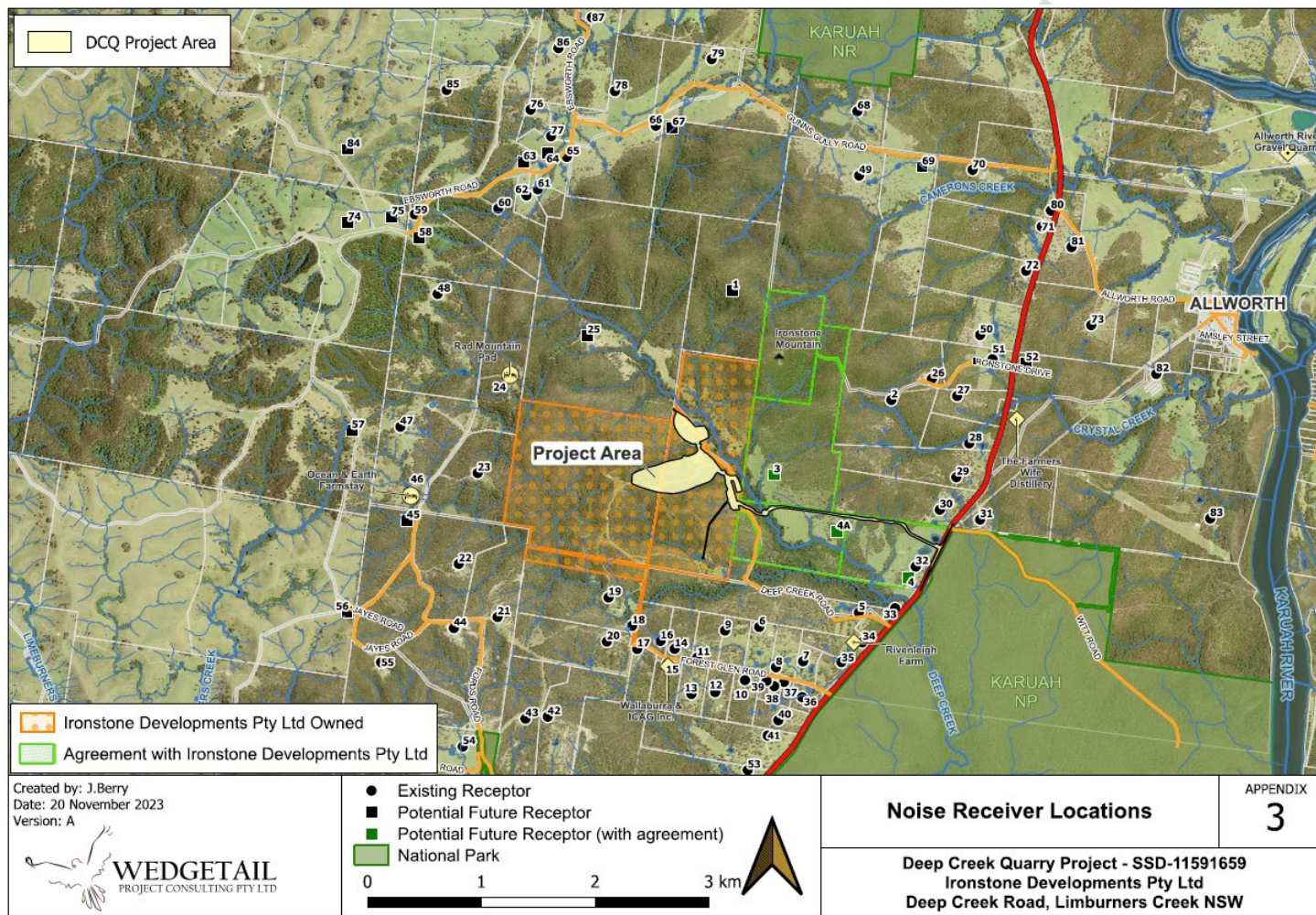
Lot 12 DP1277150

Deep Creek Road reserve and The Bucketts Way reserve
(located off Deep Creek Road at Limeburners Creek, NSW 2324)

APPENDIX 2: DEVELOPMENT LAYOUT PLAN



APPENDIX 3: RECEIVER LOCATIONS



APPENDIX 4: NOISE COMPLIANCE ASSESSMENT

Applicable Meteorological Conditions

1. The noise criteria in Table 2 of the conditions are to apply under all meteorological conditions except the following:
 - (a) where $3^{\circ}\text{C}/100$ metres (m) lapse rates have been assessed, then:
 - (i) wind speeds greater than 3 metres/second (m/s) measured at 10m above ground level;
 - (ii) temperature inversion conditions between 1.5°C and $3^{\circ}\text{C}/100\text{m}$ and wind speeds greater than 2m/s measured at 10m above ground level; or
 - (iii) temperature inversion conditions greater than $3^{\circ}\text{C}/100\text{m}$.
 - (b) where Pasquill Stability Classes have been assessed, then:
 - (i) wind speeds greater than 3m/s at 10m above ground level;
 - (ii) stability category F temperature inversion conditions and wind speeds greater than 2m/s at 10m above ground level; or
 - (iii) stability category G temperature inversion conditions.

Determination of Meteorological Conditions

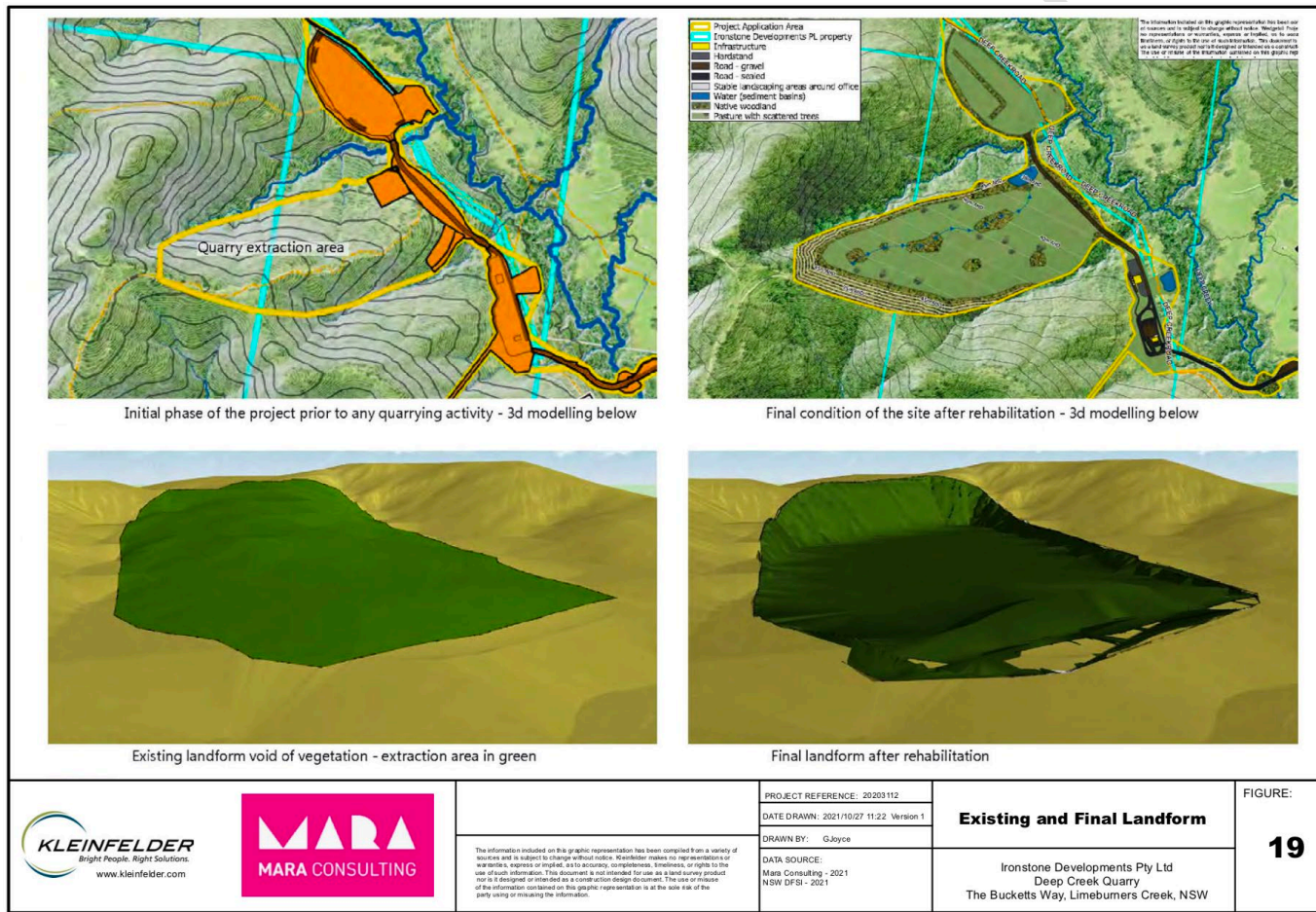
2. Except for wind speed at microphone height, the data to be used for determining meteorological conditions shall be that recorded by the meteorological station required under B23.

Compliance Monitoring

3. A noise compliance assessment must be undertaken within two months of commencement of the road transportation of quarry products. The assessment must be conducted by a suitably qualified and experienced acoustical practitioner and must assess compliance with noise criteria presented above. A report must be provided to the Department and EPA within 1 month of the assessment.
4. Unless otherwise agreed by the Planning Secretary, attended compliance monitoring must be carried out in accordance with the relevant requirements for reviewing performance set out in the *NSW Noise Policy for Industry* (EPA, 2017), in particular the requirements relating to:
 - (a) monitoring locations for the collection of representative noise data;
 - (b) meteorological conditions during which collection of noise data is not appropriate;
 - (c) equipment used to collect noise data, and conformity with Australian Standards relevant to such equipment; and
 - (d) modifications to noise data collected, including for the exclusion of extraneous noise and/or penalties for modifying factors apart from adjustments for duration,
 - (e) modifying factors apart from adjustments for duration,

with the exception of applying appropriate modifying factors for low frequency noise during compliance testing. This should be undertaken in accordance with *Fact Sheet C* of the *NSW Noise Policy for Industry* (EPA, 2017).

APPENDIX 5: CONCEPTUAL REHABILITATION PLAN



APPENDIX 6: INCIDENT NOTIFICATION AND REPORTING REQUIREMENTS

Written Incident Notification Requirements

1. A written incident notification addressing the requirements set out below must be submitted to the Planning Secretary via the Major Projects website within seven days after the Applicant becomes aware of an incident. Notification is required to be given under this condition even if the Applicant fails to give the notification required under condition D7 of this consent or, having given such notification, subsequently forms the view that an incident has not occurred.
2. Written notification of an incident must:
 - a) identify the development and application number;
 - b) provide details of the incident (date, time, location, a brief description of what occurred and why it is classified as an incident);
 - c) identify how the incident was detected;
 - d) identify when the applicant became aware of the incident;
 - e) identify any actual or potential non-compliance with conditions of consent;
 - f) describe what immediate steps were taken in relation to the incident;
 - g) identify further action(s) that will be taken in relation to the incident; and
 - h) identify a project contact for further communication regarding the incident.
3. Within 30 days of the date on which the incident occurred or as otherwise agreed to by the Planning Secretary, the Applicant must provide the Planning Secretary and any relevant public authorities (as determined by the Planning Secretary) with a detailed report on the incident addressing all requirements below, and such further reports as may be requested.
4. The Incident Report must include:
 - a) a summary of the incident;
 - b) outcomes of an incident investigation, including identification of the cause of the incident;
 - c) details of the corrective and preventative actions that have been, or will be, implemented to address the incident and prevent recurrence; and
 - d) details of any communication with other stakeholders regarding the incident.