

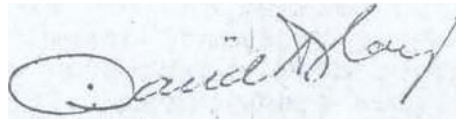
ENVIRONMENTAL PLANNING AND ASSESSMENT ACT 1979

DETERMINATION OF A DEVELOPMENT APPLICATION

PURSUANT TO SECTION 101

In pursuance of Section 101 of the Environmental Planning and Assessment Act, 1979, I determine the development application referred to below by granting consent to that application subject to the conditions set out in the Schedule.

The reason for the imposition of the conditions is to minimise the adverse impact the development may cause.



DAVID HAY

Minister for Planning

Signed at Sydney this 15th day of *March*, 1989.

File No. 85/2865.

APPLICANT:	Menangle Sand and Soil Supplies Pty Limited P.O. Box 265 INGLEBURN 2565
COUNCILS:	Campbelltown City Council Wollondilly Shire Council
LAND:	Lots 201-203 D.P. 590247 Lot 1 D.P. 168893 Lot 11 D.P. 531897 Lot 4 D.P. 595181 Lot 3 D.P. 593211 Lot 2 D.P. 236059 Lot 2 D.P. 116069
PROPOSED DEVELOPMENT:	Extraction of sand and soil from the bed and banks of the Nepean River at Menangle
NOTES:	(1) To ascertain the date upon which the consent becomes effective, refer to section 93 of the Act. (2) To ascertain the extent to which the consent is liable to lapse, refer to, section 99 of the Act.

Changes made under Modification 1 (September 2020) are shown in red text.

SCHEDULE 11. Previous Consents Relating to Subject Land

Prior to any extraction occurring, the applicant shall submit written agreement to the Minister surrendering all previous development consents issued by the Wollondilly Shire Council and the Campbelltown City Council in respect of sand and soil extraction from the land subject to this consent.

2. Conformity with EIS

The extraction and rehabilitation is to be carried out in accordance with the environmental Impact Statement prepared by Planning Workshop, certified in accordance with Section 77(3) of the Act, dated December, 1987; except where modified by the following conditions or such other consents as may be required.

3. Statutory Consents

The applicant shall obtain all necessary approvals, licences and permits from statutory authorities and departments including the Department of Water Resources, State pollution Control Commission, and the Catchment Areas Protection Board and from the local Councils.

4. Stage 2 Vegetation Protection

Extraction in Stage 2 shall not occur on the land shown cross hatched on the plan being Appendix A to this consent. Activities associated with the extraction shall not result in the damage to or removal of trees contained within the area shown cross hatched on the said Appendix A. Extraction from Stage 2 shall not occur until the applicant has prepared a detailed survey plan which identifies the land on which extraction shall not occur and has constructed a fence around that land to the satisfaction of the Director.

5. Deleted5A. The Applicant must not carry out any Quarrying Operations or extraction in Stage 3.6. Deleted

7. Barragal Lagoon

No extraction shall occur within 50 metres of the high water mark in Barragal Lagoon; and the weathered shale ridge between Barragal Lagoon and the Nepean River shall not be removed or altered.

8. Barragal Lagoon – Impact of water level

Extraction in the vicinity of Barragal Lagoon shall cease should it be demonstrated to the reasonable satisfaction of the Director of Planning ("hereinafter referred to as the Director") that extraction is having an adverse impact on water levels in the Lagoon. The applicant shall establish and maintain piezometers to the reasonable satisfaction of the Department of Water Resources for the purpose of monitoring on a regular basis, groundwater drainage from the Lagoon.

9. Eastern Bank Vegetation

Extraction on the eastern bank of the Nepean River shall not occur until a screen of vegetation is established to the east of the extraction area, and on the western bank immediately opposite, to the satisfaction of the Director. Extraction on the eastern bank shall not occur below R.L. 62.

10. Copies of Licences and Approvals

The applicant shall lodge with the Campbelltown City Council and the Wollondilly Shire Council copies of all approvals and licences and the conditions relating thereto obtained from any statutory authority with respect to the proposed development prior to commencement of any work on the land.

11. Dust

Pollution control measures shall be adopted in respect of vehicles, processing equipment and extraction processes to avoid dust nuisance to landowners and residents. In this regard a suitable water tanker and spray to regularly wet down those areas which generate dust within the site shall be available and used as required.

12. Noise

Control of noise from the operation shall be to the requirements of the State Pollution Control Commission. .

13. Rehabilitation Plans

The applicant shall submit detailed plans of proposed rehabilitation for the site, including details of soil stock piles, and types of vegetation to be planted for each stage of the development, to the Wollondilly Shire Council, Campbelltown City Council, the Department of Water Resources and the Director, for approval, prior to the commencement of operations. Progressively upon completion of restoration and rehabilitation works, trees, shrubs and ground cover vegetation shall be planted and maintained in accordance with these plans.

14. Sequence of Extraction

River flood plain extraction areas shall be limited to a length of two hundred (200) metres running parallel to the river. Not more than one extraction area shall be opened, excavated or worked within any of the following designated areas at any one time without the written consent of the Director:

- a. Stage 2 (Western Bank)
- b. Stages 6–7 (Western Bank)
- c. Council/Trotting Authority land (Eastern Bank)

15. Excavation near property boundaries

Excavations and stockpiles shall not be located within 30 metres of the boundary of any road, public place or public reserve or within 12 metres of any lot boundary not covered by this consent.

16. Vegetation Screen from Public Places

A screen of native shrubs shall be established adjacent to the Menangle Road and F5 Freeway boundaries and along the southern boundaries of the Stage 1 bridge area and Stages 6 and 7 areas prior to the commencement of extractive operations. Such screening shall include the organic mix plant site.

17. Disposal of Vegetation

All trees, shrubs and undergrowth which are removed, knocked down or damaged for the purpose of or in the cause of the works on any section of the land shall be disposed of by sale or chipping or otherwise in a manner to the satisfaction of the Campbelltown City Council or the Wollondilly Shire Council as appropriate.

18. Stormwater Catchment Plan

The applicant shall carry out all necessary works to provide complete control of all stormwater flows within the site. In this regard a catchment plan and hydrologic and hydraulic details shall be submitted to and receive the approval of the Campbelltown City Council, Wollondilly Shire Council and the Department of Water Resources detailing the design of all drainage and soil conservation measures for the approval of those authorities.

19. Fences

The applicant shall construct and maintain fences around all areas where extraction is occurring to the satisfaction of the Campbelltown City Council or to the satisfaction of the Wollondilly Shire Council, as appropriate.

20. River Navigation

Operations shall be carried out in such a manner as not to cause interference with navigation on the river.

21. Access Roads

The applicant shall provide, improve and maintain road access to the site: such works and maintenance shall be to the satisfaction of the Campbelltown City Council or the Wollondilly Shire Council, as appropriate, the Traffic Authority of NSW and the Department of Main Roads.

22. Sealing of access road to Foot-Onslow Creek

The applicant shall construct a sealed access road from the intersection of the Menangle Road to the existing bridge at Foot-Onslow Creek to the specifications and satisfaction of the Wollondilly Shire Council.

23. Covering of Loads

All vehicles leaving the site shall have loads trimmed and covered.

24. Hours of Operation

The development shall only operate between the hours of 0600 to 1700 west and south of the River and 0700 to 1800 east of the river, Monday to Friday. Hours of operation in all locations on Saturdays shall be between 0600 and 1200. There shall be no operations on Sundays and Public Holidays.

25. Guarantee

The applicant shall, before commencing extraction lodge with the Campbelltown City Council a bank guarantee for the sum of One Hundred Thousand Dollars (\$100,000) and with the Wollondilly Shire Council a bank guarantee for the sum of One Hundred Thousand Dollars (\$100,000) so that each Council shall be fully compensated in the event of any expense being incurred by it in respect of the rectification by it of any matter referred to in this Consent.

The release of the guarantee shall be subject to the following requirements:

- a. Fifty (50) percent of the guarantee shall be released after completion of restoration and landscaping of the final stage of the development, the removal of any waste materials, restoration of the stockpile areas and waste disposal areas as well as the maintenance of any drainage lines and structures subject to the satisfaction of each Council and the Department of Water Resources; and

- b. The remaining fifty (50) percent of the guarantee shall be released after a twelve (12) months maintenance period following the completion of the project subject to each Council and the Department of Water Resources being satisfied that the rehabilitated areas have stabilised and that the trees, shrubs and ground covers have been established satisfactorily.

Notwithstanding the above, the amount held as guarantee shall be reviewed every five (5) years to take into account any rise in the Consumer Price Index in the Intervening period.

26. Rehabilitation Levy

The applicant or its Assigns shall pay the Campbelltown City Council a rehabilitation levy on all sand and soil removed or carried from the site within the City of Campbelltown and the Wollondilly Shire Council a rehabilitation levy on all sand and soil removed from the site within the Shire of Wollondilly, such levy being paid into a Trust Fund to be administered by the respective Councils, at a rate of 28 cents per tonne of sand and soil, for the purpose of maintaining roads used for the transport of sand and soil from the site and for ongoing maintenance of rehabilitation.

The amount of rehabilitation levy shall be adjusted annually on 1st day of March (hereinafter called "the Index Review Date") to an amount which is:

- i. an amount calculated in accordance with the following formula:

$$\text{Amount} = \text{RX} \frac{\text{CPI}(2)}{\text{CPI}(1)}$$

R = The amount which is the rehabilitation levy payable in respect of the period of 12 months immediately preceding the Index Review Date.

CPI(2)= The figure for Sydney of the Consumer Price Index (All Groups) for the most recent complete quarter prior to the Index Review Date.

CPI(1)= The figure for Sydney of the Consumer Price Index (All Groups) for the most recent completed quarter prior to the previous Index Review Date.

- ii. on and from the relevant Index Review Date and until next varied, that amount shall be deemed to be the rehabilitation levy payable.

27. Maintenance of Records

For the purpose of ascertaining the quantity of material removed, the applicant shall keep proper records and such records shall be produced on demand to offices of the Campbelltown City Council and the Wollondilly Shire Council.

28. Breach of Consent

In the event of a breach of any of the conditions of consent by the applicant, the Campbelltown City and the Wollondilly Shire Council reserve the right to enter and rectify any such breach and recover the costs of such rectification from the amount of the guarantee required under condition 25 of this Schedule.

29. No Further Extraction After Rehabilitation

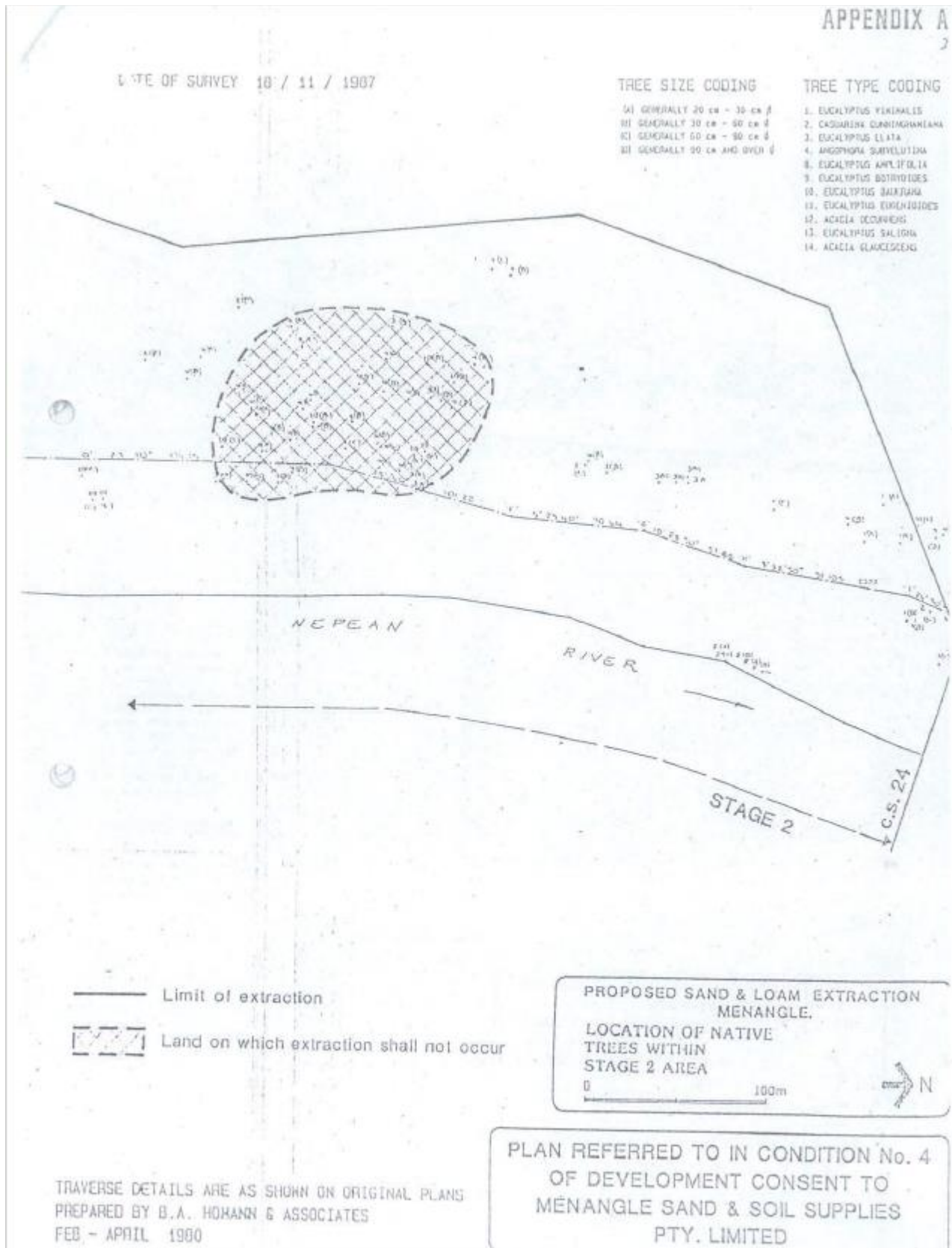
The applicant shall ensure that after extraction has occurred on any part of the land and that land has been restored in accordance with the plans referred to in condition 13, no further extraction shall occur by the applicant on that land.

30. Completion of Extraction

The applicant shall ensure that all extraction in Stage 1 and Stage 2 is completed by 30 June, 1995; and Stages 4 to 7 of the development by 31 December 2020.

31. Levy for Implementation of Management Plan

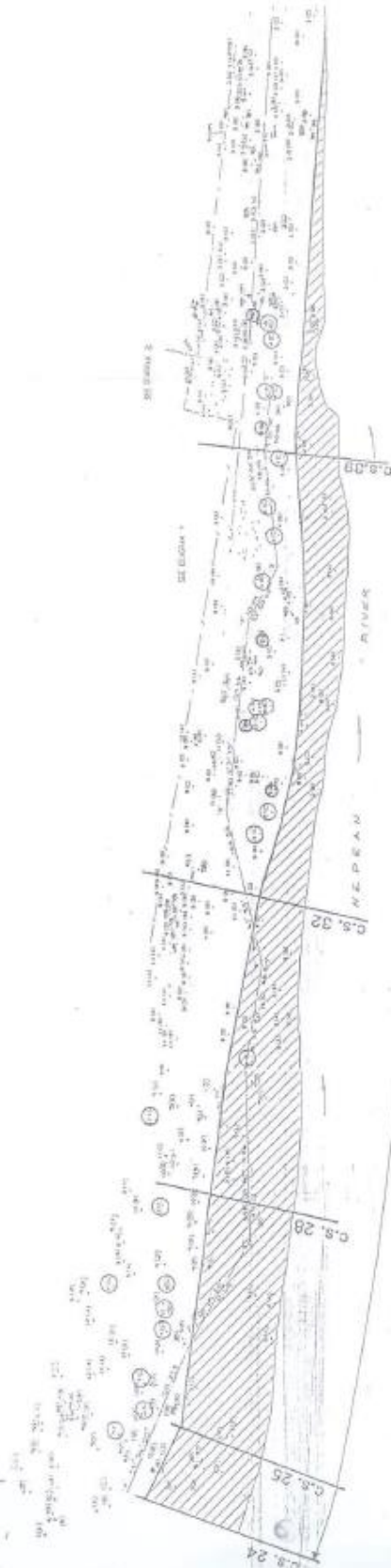
The applicant or its assigns shall pay the Director a levy on all sand and soil removed or carried from, the site from Stages 1 and 2, within the Shire of Wollondilly, such levy being paid into a Trust Fund to be administered by the Director for the purpose of providing public facilities on the land subject to this consent in accordance with the requirements of the Camden Park Estate Management Plan which is to be prepared by the Department of Planning. The levy shall be paid at a rate of 8 cents per tonne of sand and soil and shall be adjusted annually on the Index. Review Date in accordance with the formula contained in Condition 26.



APPENDIX B

3

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STAGE 3

TREE TYPE CODING

1. EUCALYPTUS VITEX
2. EUCALYPTUS VITEX
3. EUCALYPTUS VITEX
4. EUCALYPTUS VITEX
5. EUCALYPTUS VITEX
6. EUCALYPTUS VITEX
7. EUCALYPTUS VITEX
8. EUCALYPTUS VITEX
9. EUCALYPTUS VITEX
10. EUCALYPTUS VITEX
11. EUCALYPTUS VITEX
12. EUCALYPTUS VITEX
13. EUCALYPTUS VITEX
14. EUCALYPTUS VITEX

TREE SIZE CODING

15. EUCALYPTUS VITEX
16. EUCALYPTUS VITEX
17. EUCALYPTUS VITEX
18. EUCALYPTUS VITEX
19. EUCALYPTUS VITEX
20. EUCALYPTUS VITEX



Limit of extraction

Land on which extraction can occur

Location of large Eucalyptus Vitis (Blue Box) and Acacia robusta (Broadleaved Apple)

Trunk size 60 to 90 cms.

Trunk size greater than 90 cms.

PROPOSED SAND & LOAM EXTRACTION

MENANGLE

LOCATION OF NATIVE

TREES WITHIN

STAGE 3 AREA

0 50 100m

N

PLAN REFERRED TO IN CONDITION No. 6
OF DEVELOPMENT CONSENT TO
MENANGLE SAND & SOIL SUPPLIES
PTY. LIMITED

TRAVERSE DETAILS ARE AS SHOWN ON ORIGINAL PLANS
PREPARED BY B.A. HODMAN & ASSOCIATES
17/2 - 4/9/81 1980

SCHEDULE 2

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DEFINITIONS

Aboriginal object	Has the same meaning as the definition of the term in section 5 of the NP&W Act
Aboriginal place	Has the same meaning as the definition of the term in section 5 of the NP&W Act
Active extraction area	The area of exposed sand or soil within each Substage which is not subject to rehabilitation
AHD	Australian Height Datum
AEP	Annual Exceedance Probability
Annual Review	The review required by condition D9
Applicant	Menangle Sand and Soil Pty Ltd, or any person carrying out any development under this consent
Approved disturbance area	The area identified as such on the development layout figures in Appendix 1, as amended by the conditions of this consent
Amended Project Summary	<p>The amended project as described in:</p> <ul style="list-style-type: none"> correspondence prepared by EMM dated 20 December 2019, including: <ul style="list-style-type: none"> Amended Extraction Area and Setback Letter dated 16 August 2019, prepared by EMM Consulting; Groundwater Management Letter dated 16 August 2019, prepared by EMM Consulting; Aquatic Ecology Assessment of Significance Letter regarding Sydney Hawk Dragonfly dated 2 September 2019, prepared by Marine Pollution Research Pty Ltd; Fluvial Geomorphology Assessment for Menangle Quarry Modification to Development Consent 85/2865 dated 5 September 2019, prepared by Fluvial Systems Pty Ltd; Stage 8 Area Weed Control Strategy Letter dated 9 September 2019, prepared EMM Consulting; Flood Mitigation Letter dated 9 September 2019, prepared by EMM Consulting; Supplementary Biodiversity Assessment Report dated 16 September 2019, prepared by EMM Consulting; Menangle Quarry Extension – Flood Impact Sensitivity Assessment dated September 2019, prepared by Advisian; and Additional Flood Impact Sensitivity Assessment dated 17 December 2019, prepared by Advisian; and the Consolidated Project Description
BAM	Biodiversity Assessment Method
BC Act	<i>Biodiversity Conservation Act 2016</i>
BCD	Biodiversity and Conservation Division within the Department
BCT	NSW Biodiversity Conservation Trust
Calendar year	A period of 12 months from 1 January to 31 December
Conditions of this consent	Conditions contained in Schedules 2 and 3
Consolidated Project Description	The document titled <i>Applicant's Description of Amended Project for Case Management Conference 23 July 2020</i> prepared by EMM Consulting dated 24 August 2020
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	Wollondilly Shire Council

Day	The period from 7 am to 6 pm on Monday to Saturday, and 8 am to 6 pm on Sundays and Public Holidays
DBH	Diameter at breast height
Decommissioning	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, Industry and Environment
Development	The development described in the document/s listed in condition A7(c), as modified by the conditions of this consent
Development Layout	The figures in Appendix 1, as amended by the conditions of this consent
DPIE Water	Water Group within the Department
EA (Mod 1)	The EA titled <i>Environmental Assessment Menangle Quarry Extension</i> , prepared by EMM and dated 23 May 2017, the associated Response to Submissions titled <i>Response to Submissions Menangle Quarry Extension</i> , prepared by EMM and dated 14 September 2017, and additional information provided by the Applicant in support of the application including <i>Flood Impact Assessment</i> prepared by Advisian and dated May 2018, <i>Review of Fluvial Geomorphology</i> prepared by Fluvial Systems and dated May 2018, and correspondence prepared by EMM dated 27 August 2017 and 21 February 2018
Early Works	Means clearing for and construction of the linear infrastructure (being conveyors, access roads and haul roads) located between Stage 7 and Stage 8, but does not include Quarrying Operations within the Substage 8A.
EIS	The Environmental Impact Statement titled <i>Proposed Sand & Soil Extraction Nepean River & Environs Menangle NSW</i> , prepared by Planning Workshop and dated December 1987, submitted with the application for consent for the development.
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>
EPL	Environment Protection Licence under the POEO Act
Exclusion Areas	Means those areas with 1% AEP peak flow velocities greater than 4 metres/second as identified in the figures in Appendix 2 and the plan required under condition A15.
Feasible	Means what is possible and practical in the circumstances
Final determination	River-flat Eucalypt Forest on Coastal Floodplains of the NSW North Coast, Sydney Basin and South East Corner bioregions - endangered ecological community final determination (as amended in 2011)
GPS	Global Positioning System
Heritage item	An Aboriginal object, an Aboriginal place, or a place, building, work, relic, moveable object, tree or precinct of heritage significance that is listed under any of the following: <ul style="list-style-type: none"> the State Heritage Register under the <i>Heritage Act 1977</i>; a state agency heritage and conservation register under section 170 of the <i>Heritage Act 1977</i>; a Local Environmental Plan under the EP&A Act; the World Heritage List; the National Heritage List or Commonwealth Heritage List under the EPBC Act; or anything identified as a heritage item under the conditions of this consent
Heritage NSW	Heritage NSW within the Department of Premier and Cabinet

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
Laden trucks	Trucks transporting quarry products from the site and/or trucks transporting waste and other blending material to the site
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 Schedule 2 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 determination of Modification 1
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	Mining, Exploration and Geoscience within Regional NSW
m	Metres
Minimise	Implement all reasonable and feasible mitigation measures to reduce the impacts of the development
Nepean River Buffer Zone	A horizontal setback area extending landward from the 64 m AHD contour of the western low bank of the Nepean River, as defined under condition A10 of Schedule 2
Non-compliance	An occurrence, set of circumstances or development that is a breach of this consent
Phase 1	Substages 8A – 8B as shown in the figures in Appendix 1
Phase 2	Substage 8C as shown in the figures in Appendix 1
Phase 3	Substages 8D – 8E as shown in the figures in Appendix 1
Phase 4	Substages 8F to 8G as shown in the figures in Appendix 1
Phase 5	Substages 8H to 8I as shown in the figures in Appendix 1
Phase 6	Substages 8J to 8K as shown in the figures in Appendix 1
Phase 7	Substages 8L to 8M as shown in the figures in Appendix 1
Planning Secretary	Planning Secretary under the EP&A Act, or nominee
POEO Act	<i>Protection of the Environment Operations Act 1997</i>
Processing Areas	Any areas used for processing (including blending with waste material), stockpiling and transportation of extractive materials during Stage 8 Operations, including any disturbed areas within Stages 6-7 required to facilitate Quarrying Operations in the Stage 8 Area
Protected Trees	Any native trees identified as such in a native vegetation identification report prepared in accordance with condition A10(b) of Schedule 2
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 (including blending with waste material), stockpiling and transportation of extractive materials carried out on the site and the associated removal of vegetation, topsoil and overburden

Quarry products	Includes all saleable quarry products, but excludes tailings and other 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 2009</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 determination of Modification 1
Restoration Area	The area shown as “Amended stage 8 – restoration area” in the figures in Appendix 1
RFS	NSW Rural Fire Service
River-Flat Eucalypt Forest EEC	River-Flat Eucalypt Forest on Coastal Floodplains of the New South Wales North Coast, Sydney Basin and South East Corner Bioregions endangered ecological community, as listed under the <i>Biodiversity Conservation Act 2016</i> and described in the Final Determination
TfNSW	Transport for New South Wales
Site	The land identified as: Lot 10 DP1022204 Lot 2 DP1050479 Lot 2 DP1133910 Lot 1 DP1140461 Lots 1-2 DP1187569 Lot 105 DP249189 Lot 21 DP581462 Lots 201-203 DP590247
Stage 3 Area	The area labelled Stage 3 and shown in blue in Figure 1 in Appendix 1
Stage 8 Area	The area labelled Stage 8 and shown in brown in Figure 1 in Appendix 1, comprising the 13 Substages labelled Stages 8A-8M and associated infrastructure including the conveyor and haul roads, shown in Figures 2-5 of Appendix 1
Stage 8 Operations	Quarrying Operations associated with extraction within the Stage 8 Area, including the operation of the Processing Areas identified in the figures in Appendix 1 and any private access roads or haul roads necessary for the carrying out of the development
Substage	Each of the 13 extraction areas labelled Stages 8A-8M and identified in the figures in Appendix 1, as amended by conditions of this consent
V:H	Vertical to horizontal
Waste	Has the same meaning as the definition of the term in the Dictionary to the POEO Act
Weed	Any weed specified by the Department of Primary Industries as being a weed on the website NSW WeedWise (or any successor websites or policies). For the avoidance of doubt, privet and lantana are weeds for the purposes of this definition.

PART A ADMINISTRATIVE CONDITIONS

APPLICATION OF THIS SCHEDULE

- A1. The conditions in this Schedule have no effect until the Applicant provides notification of the commencement of construction activities associated with Stage 8 Operations, as required under condition A5(a) of this Schedule.
- A2. The conditions in this Schedule do not apply retrospective requirements in relation to Quarrying Operations undertaken in Stages 1 to 7 of the development that have been completed prior to 31 December 2020 (inclusive).
- A3. From the commencement date of construction activities associated with Stage 8 Operations, as notified under condition A5(a) of this Schedule, the obligations in Schedule 1 of this development consent will continue to apply in relation to Stages 1 to 7 of the development, except in so far as they are specifically amended by the conditions of this Schedule.
- A4. In the event of an inconsistency, ambiguity or conflict between the conditions in Schedules 1 and 2 of this development consent, as they relate to the Stage 8 Operations, the conditions in Schedule 2 prevail to the extent of the inconsistency, ambiguity or conflict.

NOTIFICATION OF COMMENCEMENT (STAGE 8)

- A5. The Applicant must notify the Department in writing of the date of commencement of any of the following phases of the development, at least two weeks before that date:
 - (a) construction activities associated with Stage 8 Operations;
 - (b) Quarrying Operations in each of Phases 1 to 7;
 - (c) cessation of Quarrying Operations (i.e. quarry closure); and
 - (d) any period of suspension of Quarrying Operations (i.e. care and maintenance).

OBLIGATION TO MINIMISE HARM TO THE ENVIRONMENT

- A6. 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 operation of the development, and any rehabilitation required under this Schedule.

TERMS OF CONSENT

- A7. The development (as modified) 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, EA (Mod 1), Amended Project Summary and the Development Layout.
- A8. 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 A8(a) of Schedule 2.
- A9. 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 A7(c) of Schedule 2. In the event of an inconsistency, ambiguity or conflict between any of the document/s listed in condition A7(c) of Schedule 2, the most recent document prevails to the extent of the inconsistency, ambiguity or conflict.

LIMITS OF CONSENT

Nepean River Buffer Zone

- A10. The Applicant must establish and maintain a Nepean River Buffer Zone during Quarrying Operations in the Stage 8 Area. This buffer zone must:
 - (a) include a minimum horizontal setback of 10 m extending landward from the 64 m AHD contour on the western side of the Nepean River;
 - (b) be informed by a native vegetation identification report, which must:
 - (i) be prepared by a suitably qualified and experienced botanist or ecologist, whose appointment has been endorsed by the Planning Secretary;
 - (ii) include detailed site surveys to identify the DBH of all native trees that occur within the 10 m horizontal setback from the 64 m AHD contour referred to in sub-paragraph (a);

- (iii) classify all native trees identified in subparagraph (b)(ii) with a DBH of greater than or equal to 0.1 m as Protected Trees and provide their GPS coordinates; and
- (iv) include a map illustrating a 7.5 m setback (measured at the outside of the native tree trunk) around each of the identified Protected Trees;
- (v) the map required under subparagraph (iv) must overlay high-resolution ortho-photographs, with supporting digital terrain data files provided in spatial format for GIS and as high-resolution JPEG files; and
- (c) be amended to include the findings of the native vegetation identification report, such that it is widened to include areas where the Protected Tree setbacks extend beyond the minimum 10 m horizontal setback referred to in subparagraph (a).

A11. The Applicant must submit a copy of the native vegetation identification report and associated survey plans, GPS coordinates and data files required under condition A10(b) of Schedule 2 and associated final landform plans to the Planning Secretary for each of Phases 1 to 7 of the development prior to commencing any vegetation clearing or Quarrying Operations in the relevant phase.

A12. With the written agreement of the Planning Secretary, the Applicant may seek to reduce the minimum 7.5 m horizontal setback distance for Protected Trees to an appropriate distance recommended by a consulting arborist assessment. Any variation request must be supported by an expert report prepared by the consulting arborist and will be determined by the Planning Secretary on a case by case basis.

A13. The Applicant must retain and manage the minimum Nepean River Buffer Zone in accordance with the commitments in the documents listed in condition A7(c) of Schedule 2 (as may be amended by the conditions of this consent).

General Limits on Extraction and Processing

A14. Prior to undertaking Quarrying Operations in Substage 8G, the Applicant must update the TUFLOW hydrodynamic model used to generate the flood sensitivity analysis in the Additional Flood Impact Sensitivity Assessment dated 17 December 2019, prepared by Advisian in the Amended Project Summary, to include the post extraction topography for Substages 8G-M, using hydraulic roughness Scenario B, and simulate the 1% AEP flood.

A15. Prior to undertaking Quarrying Operations in Substage 8G, the Applicant must provide the Planning Secretary with a copy of the model required under condition A14 and a plan depicting any areas identified as having a post extraction 1% AEP peak flow velocity of 4 metres/second or greater.

A16. The Applicant must not carry out construction works or Quarrying Operations or locate any ancillary infrastructure within the Exclusion Areas.

A17. The Applicant must not:

(a) carry out Quarrying Operations or regrading; and/or

(b) remove vegetation, except where necessary for Weed control,

within the Nepean River Buffer Zone, without the prior written agreement of the Planning Secretary.

The written agreement of the Planning Secretary may be provided in circumstances where those activities are necessary for environmental management purposes.

A18. The Applicant must ensure that any Weed control activities undertaken within the Nepean River Buffer Zone:

(a) are limited to Weed removal techniques that use hand-held tools; and

(b) minimise ground disturbance to the greatest extent practicable.

A19. The Applicant must not undertake extraction within 7.5 m of any Protected Trees without the written agreement of the Planning Secretary under condition A12 of Schedule 2.

A20. The Applicant must maintain a minimum 7.5 m setback between Quarrying Operations and any native trees ^a located in the Restoration Area, except where a reduced setback is supported by an assessment by a suitably qualified and experienced arborist, and evidence of this assessment has been provided to the Planning Secretary.

^a In this condition, the setback is to be measured from the outside of the tree trunk.

A21. The Applicant must not carry out any extraction:

(a) in Stages 1, 2, 4, 5, 6 or 7 after the date specified in condition 30 of Schedule 1; or

(b) in Stage 3 at any time.

Identification of Approved Disturbance Area

A22. Prior to the commencement of Quarrying Operations in each of Phases 1 to 7, the Applicant must:

a) engage a registered surveyor to mark out the boundaries of the approved limits of extraction for the relevant Substages in each phase (as set out conceptually in the Appendix 1 and as amended by the conditions of this consent);

- b) submit a survey plan of these boundaries and their GPS coordinates to the Planning Secretary; and
- c) ensure that these boundaries are clearly marked at all times during the life of the development in a manner that allows operating staff and inspecting officers to clearly identify those limits.

Quarrying Operations

A23. Stage 8 Operations may be carried out on the site until 31 December 2035.

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.*

A24. A maximum of 150,000 tonnes of extractive material may be extracted from the site in any calendar year.

Quarry product transport

A25. Truck movements at the site (ie inbound combined with outbound movements) must not exceed:

- (a) a maximum of 248 movements on any given weekday;
- (b) an average of 148 movements per weekday, averaged on a weekly basis; and
- (c) a maximum of 80 movements per day on Saturdays.

Hours of Operation

A26. The Applicant must comply with the operating hours set out in Table 1.

Table 1: Operating Hours

Activity	Permissible Hours
Construction work	<ul style="list-style-type: none"> 7 am to 5 pm Monday to Friday 7 am to 1 pm Saturday At no time on Sundays or public holidays
Quarrying Operations including loading and dispatch of laden trucks	<ul style="list-style-type: none"> 6 am to 5 pm Monday to Friday 6 am to 12 noon Saturday At no time on Sundays or public holidays
Maintenance, security, office work, cleaning, etc	<ul style="list-style-type: none"> May be conducted at any time, provided that these activities are not audible at any residence on privately-owned land

A27. The following activities may be carried out outside the hours 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.

EVIDENCE OF CONSULTATION

A28. 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

A29. The Applicant may prepare and submit the Soil and Water Management Plan and/or Biodiversity and Rehabilitation Management Plan required under conditions B36 and B73 of Schedule 2 on a staged basis, prior to the commencement of Quarrying Operations in each of Phases 1 to 7. Quarrying Operations must not commence in any phase until a management plan has been approved by the Planning Secretary for that phase.

A30. 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).

A31. If the Planning Secretary agrees, a strategy, plan or program may be approved, staged or updated without consultation being undertaken with all parties required to be consulted in the relevant condition in this consent.

PROTECTION OF PUBLIC INFRASTRUCTURE

A32. 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 caused as a result of general road usage or otherwise addressed by contributions required by condition 26 of Schedule 1.*

OPERATION OF PLANT AND EQUIPMENT

A33. 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

A34. 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

A35. 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.

A36. 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

A37. Each year, from the date of commencement of Quarrying Operations in the Stage 8 Area, the Applicant must provide calendar year quarry production data to MEG by no later than 30 January.

A38. The data must be provided using the relevant standard form and a copy of the data must be included in the Annual Review.

OTHER STATUTORY APPROVALS, LICENCES AND CONSENTS

A39. The Applicant must obtain all necessary approvals, licences and consents required for the carrying out of the development, including but not limited to, approvals under the *Roads Act 1993*, the *Water Management Act 2000* and the POEO Act.

PART B SPECIFIC ENVIRONMENTAL CONDITIONS

EARLY WORKS

- B1. The Applicant may prepare an Early Works Construction Environmental Management Plan for the Early Works, to the satisfaction of the Planning Secretary. This plan must:
- (a) describe measures to be implemented to minimise construction-related impacts on biodiversity, including:
 - (i) specific measures to minimise impacts on tree hollows, termite mounds and fauna; and
 - (ii) detailed procedures for pre-clearance surveys and supervision (by an appropriately qualified person) of the felling of habitat trees within disturbance areas associated with the Early Works;
 - (b) describe measures to be implemented to manage sediment and erosion risks, including:
 - (i) a detailed description of the surface water management measures to be implemented in relation to the Early Works; and
 - (ii) appropriate clean water diversion systems and construction of appropriate erosion and sediment controls for the management of disturbed areas associated with the Early Works;
 - (c) include a Trigger Action Response Plan which outlines actions to be undertaken to rectify impacts associated with erosion and sedimentation during the Early Works (to the extent that these actions are not addressed by other management plans required to be in place prior to the commencement of Early Works); and
 - (d) describe detailed procedures to be implemented to receive, record, handle and respond to complaints associated with the Early Works construction.
- B2. If the Applicant opts to seek approval for Early Works, the Applicant must not commence Early Works until the Early Works Construction Environmental Management Plan is approved by the Planning Secretary.
- B3. If the Planning Secretary approves an Early Works Construction Environmental Management Plan, the Applicant must implement that plan as approved by the Planning Secretary.

NOISE

Operational Noise Criteria

- B4. 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)

Residences ^a	Day	Shoulder Period 6.00 am to 7.00 am Monday to Saturday	
	<i>L_{Aeq}</i> (15 minute)	<i>L_{Aeq}</i> (15 minute)	<i>L_A</i> (max)
2, 3, 5 ^b , 6, 7, 8, 9	45	45	55
4	54	52	62
10, 11	35	35	45
All other Residences	35	35	45

^a Residence locations are shown as "Assessment Locations" in Figure 6 in Appendix 3.

^b Receiver location 5 is representative of Residences in Menangle Village as identified in the red polygon on Figure 6 in Appendix 3.

Noise generated by the development must be measured in accordance with the relevant requirements and exemptions (including certain meteorological conditions) of the *NSW Industrial Noise Policy* (EPA, 2000). Appendix 4 sets out the meteorological conditions under which these criteria apply and the requirements for evaluating compliance with these criteria.

- B5. The noise criteria in condition B4 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

- B6. The Applicant must:
- (a) take all reasonable steps to minimise all noise from operational activities, including low frequency noise and other audible characteristics, as well as road noise associated with the development;
 - (b) take all reasonable steps to minimise the noise impacts of the development during noise-enhancing meteorological conditions, particularly when the noise criteria in this consent do not apply (see Appendix 4);
 - (c) carry out regular attended noise monitoring (every three months unless otherwise agreed with the Planning Secretary) to determine whether the development is complying with the relevant conditions of Schedule 2; and

- (d) regularly assess the noise monitoring data and modify or stop operations on the site to ensure compliance with the relevant conditions of Schedule 2.

Noise Management Plan

- B7. The Applicant must prepare a Noise Management Plan for the development to the satisfaction of the Planning Secretary. This plan must:
- (a) be prepared by a suitably qualified and experienced person/s;
 - (b) be prepared in consultation with the EPA;
 - (c) describe the measures to be implemented to ensure:
 - (i) compliance with the noise criteria and operating conditions in this consent;
 - (ii) best practice noise management is being employed; and
 - (iii) noise impacts of the development are minimised during noise-enhancing meteorological conditions; under which the noise criteria in this consent do not apply (see Appendix 4); and
 - (d) include a monitoring program that:
 - (i) is capable of evaluating the performance of the development against the noise criteria;
 - (ii) monitors noise at the nearest and/or most affected residences; and
 - (iii) includes a protocol for identifying any noise-related exceedance, incident or non-compliance and for notifying the Department and relevant stakeholders of these events.
- B8. The Applicant must not commence Quarrying Operations in the Stage 8 Area until the Noise Management Plan is approved by the Planning Secretary.
- B9. The Applicant must implement the Noise Management Plan as approved by the Planning Secretary.

AIR QUALITY

Odour

- B10. The Applicant must ensure that no offensive odours (as defined under the POEO Act) are emitted by the development.

Air Quality Criteria

- B11. The Applicant must ensure that particulate matter emissions generated by the development do not cause exceedances of the criteria in Table 3 at any residence on privately-owned land.

Table 3: Air Quality Criteria

<i>Pollutant</i>	<i>Averaging period</i>	<i>Criterion</i>	
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	
^d Deposited dust	Annual	^b 2 g/m ² /month	^a 4 g/m ² /month

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.

^d 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

- B12. The air quality criteria in Table 3 do not apply if the Applicant has an agreement with the owner/s of the relevant residence to exceed the air quality criteria, and the Applicant has advised the Department in writing of the terms of this agreement.

Air Quality Operating Conditions

- B13. The Applicant must:

- (a) take all reasonable steps to:
 - (i) minimise odour, fume, greenhouse gas and dust (including PM₁₀ and PM_{2.5}) emissions of the development;
 - (ii) minimise any visible off-site air pollution generated by the development; and
 - (iii) minimise the extent of potential dust generating surfaces exposed in the Stage 8 Area at any given point in time;
- (b) minimise the air quality impacts of the development during adverse meteorological conditions and extraordinary events (see Note c to Table 3 above);
- (c) carry out regular air quality monitoring to determine whether the development is complying with the relevant conditions of Schedule 2; and
- (d) 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 Schedule 2.

Air Quality Management Plan

- B14. The Applicant must prepare an Air Quality Management Plan for the development to the satisfaction of the Planning Secretary. This plan must:
- (a) be prepared by a suitably qualified and experienced person/s;
 - (b) be prepared in consultation with the EPA;
 - (c) describe the measures to be implemented to ensure:
 - (i) compliance with the air quality criteria and operating conditions in this Schedule;
 - (ii) best practice air quality management is being employed; and
 - (iii) air quality impacts of the development are minimised during adverse meteorological conditions and extraordinary events; and
 - (d) include an air quality monitoring program that:
 - (i) is capable of evaluating the performance of the development against the air quality criteria; and
 - (ii) includes a protocol for identifying any air quality-related exceedance, incident or non-compliance and for notifying the Department and relevant stakeholders of these events.
- B15. The Applicant must not commence Quarrying Operations in the Stage 8 Area until the Air Quality Management Plan is approved by the Planning Secretary.
- B16. The Applicant must implement the Air Quality Management Plan as approved by the Planning Secretary.

METEOROLOGICAL MONITORING

- B17. Prior to the commencement of Quarrying Operations in the Stage 8 Area, 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* (DEC, 2007); and
 - (b) is capable of measuring meteorological conditions in accordance with the *NSW Industrial Noise Policy* (EPA, 2000),
- unless a suitable alternative is approved by the Planning Secretary following consultation with the EPA.

SOIL AND WATER

- B18. The Applicant must ensure that diesel spills and the like are cleaned up immediately so as not present a risk to water quality if the relevant Substage is inundated by floodwaters.

Groundwater Monitoring and Management

- B19. The Applicant must monitor groundwater levels at Groundwater Bores BH01_S, BH01_D, BH02, BH03 and BH04 as shown in Figure 7 in Appendix 5, using continuous data loggers, for the duration of Quarrying Operations in the Stage 8 Area.
- B20. The Applicant must ensure that Quarrying Operations do not compromise the integrity of the monitoring bores identified in condition B19 of Schedule 2.
- B21. The Applicant must:
- (a) collect groundwater quality samples at each of the monitoring locations identified in condition B19; and
 - (b) analyse collected groundwater quality samples for all major anions and cations and field parameters;
- on an annual basis for the duration of Quarrying Operations in the Stage 8 Area.
- B22. The Applicant must ensure that:

- (a) temporary bores are drilled or augered progressively in each Substage to determine the local water table position immediately prior to commencing extraction in each Substage; and
- (b) the pit floor in each Substage remains at least 1 metre above the measured water table level averaged over a seven-day period following the date of drilling or augering.

Water Supply and Licensing

- B23. The Applicant must ensure that it has sufficient water for all stages of the development, and if necessary, adjust the scale of the development to match its available water supply.
- B24. The Applicant must develop a groundwater model using a variant of Modflow standard software, or equivalent software, to quantify the progressive takes from water sources during Quarrying Operations in the Stage 8 Area.
- B25. The Applicant must:
- (a) initially construct the groundwater model required under condition B24 of Schedule 2 using the first three months of groundwater monitoring data collected from 17 June 2020 to 16 September 2020;
 - (b) update the groundwater model following collection of the first 12 months of data collected from 17 June 2020 to 16 June 2021; and
 - (c) incorporate the outputs of the groundwater model into the Site Water Balance as required under condition B36(c)(i) of Schedule 2.
- B26. If a potential flood event (equivalent to a level of 64 m AHD at Menangle Weir, which represents the approximate height of overtopping of the Nepean River bank) does not occur between 17 June 2020 to 16 June 2021, then the Applicant must update the groundwater model required under condition B24 of Schedule 2 following the first flood event equivalent to or greater than this level when it occurs.
- B27. The Applicant must obtain any necessary Water Access Licences for the development under the *Water Act 1912* and/or the *Water Management Act 2000*.
- B28. When making an application for any necessary Water Access Licence, the Applicant must specify the annual take of water from each affected water source, as estimated by the groundwater model required under condition B24 of Schedule 2.
- B29. Should the maximum annual water take as calculated by the groundwater model increase due to subsequent revisions of the groundwater model, as required under conditions B25 and B26 of Schedule 2, the Applicant must acquire the necessary additional licence shares to account for the maximum predicted annual volume.
- B30. The Applicant must report on any water captured, intercepted or extracted from the site each year (directly and indirectly) in the Annual Review, including water taken under each Water Access Licence as applicable.

Soil Erosion

- B31. The Applicant must install and maintain suitable erosion and sediment control measures in the Stage 8 Area. These measures must be designed and implemented having regard to the guidance series *Managing Urban Stormwater: Soils and Construction*, and be detailed in the Soil and Water Management Plan required under condition B36 of Schedule 2.

Flood Management

- B32. The Applicant must prepare a Flood 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) identify measures to:
 - (i) proactively prepare for, and respond to, any flood event in which the active extraction area is likely to be inundated by floodwaters emanating from the Nepean River;
 - (ii) ensure the safety of site personnel;
 - (iii) minimise, to the greatest extent practicable, the areas of exposed ground on the site that would be susceptible to flood risks (including scour and erosion and potential transport of sediment to downstream waters);
 - (iv) ensure that the active extraction area in any Substage does not exceed 0.33 hectares at any one time;
 - (v) ensure that the batter adjacent to the Nepean River Buffer Zone does not exceed:
 - a maximum slope of 1:1 at any time; and
 - a maximum slope of 1:5 in preparation for flood events;
 - (vi) ensure that no more than a 30 metres length of the batter adjacent to the Nepean River Buffer Zone (measured in total) has a slope exceeding 1:5 at any one time; and
 - (vii) rectify any flood-related damage to areas undergoing rehabilitation; and

- (c) include a Trigger Action Response Plan which outlines actions to be undertaken in preparation for, and immediately following, a flood event including detailed protocols and timeframes for:
 - (i) backfilling the active extraction area to achieve a maximum batter slope of 1:5 adjacent to the Nepean River Buffer Zone in preparation for flood events;
 - (ii) avoiding the downstream movement of debris from the site;
 - (iii) recommencing Quarrying Operations following a flood event; and
 - (iv) rectifying any damage to areas undergoing rehabilitation following a flood event.

B33. The Applicant must not commence Quarrying Operations in the Stage 8 Area until the Flood Management Plan is approved by the Planning Secretary.

B34. The Applicant must implement the Flood Management Plan as approved by the Planning Secretary.

B35. The Applicant must ensure that the flood storage capacity of the final rehabilitated landform is no less than the pre-existing flood storage capacity at all stages of the development, unless otherwise approved in writing by the Planning Secretary. Details of the available flood storage capacity must be reported in the Annual Review.

Soil and Water Management Plan

B36. The Applicant must prepare a Soil and Water 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 prepared in consultation with EPA and DPIE 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;
 - reporting procedures, including the annual preparation of a site water balance; and
 - minimises clean and potable water use on the site;
 - incorporates the outputs of the groundwater water model required under condition B24 of Schedule 2;
 - (ii) **Surface Water Management Plan**, that includes:
 - detailed baseline data on surface water flows and quality in watercourses and/or water bodies that could potentially be affected by the development;
 - 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 (including the construction of bunds and swales within each Substage); and
 - water storages (including a description of measures to maintain the storage capacity of sediment basins);
 - a program to monitor and report on:
 - any surface water discharges;
 - the effectiveness of the water management system;
 - surface water quality in sediment basins; and
 - water levels and quality in the Nepean River both upstream and downstream of the site; and
 - 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:
 - all available baseline data for the site;
 - groundwater performance criteria, including trigger levels for investigating any potentially adverse groundwater impacts, particularly with respect to aquatic habitat and regional groundwater systems;
 - a protocol to ensure that Quarrying Operations do not exceed the extraction depth limit specified in condition B22(b) of Schedule 2;

- measures to ensure that the integrity of the groundwater monitoring network is not compromised by Quarrying Operations;
- a clear description of the reporting processes and procedures to be adopted for the routine collation, analysis and provision of monitoring data as required under conditions B21 and B22 of Schedule 2; and
- a protocol for identifying and investigating any exceedances of the groundwater performance criteria and for notifying the Department and relevant stakeholders of these events.

B37. Subject to condition A29, the Applicant must not commence Quarrying Operations in the Stage 8 Area until the Soil and Water Management Plan is approved by the Planning Secretary.

B38. The Applicant must implement the Soil and Water Management Plan approved by the Planning Secretary.

B39. The Applicant must ensure that all surface discharges from the site comply with the relevant provisions of the POEO Act.

Ephemeral Creek Management Plan

B40. The Applicant must prepare an Ephemeral Creek Management Plan for the development to the satisfaction of the Planning Secretary. This plan must:

- be prepared by suitably qualified and experienced person/s whose appointment has been endorsed by the Planning Secretary;
- describes the measures that would be implemented to manage and control soil erosion and bank stabilisation (if required) and limit the risk of impacts on downstream receiving environments;
- provide details of the methods and timing of extraction within Substages 8E, 8F or 8G that demonstrate the integrity of the ephemeral creek (shown conceptually in Figure 4 of Appendix 1) would be maintained for as long as practicable during operations;
- provide for construction and stabilisation of appropriate diversion channels to divert surface water flows around the disturbance area, unless otherwise approved by the Planning Secretary;
- provide final designs for the road crossing and realigned section of creek that are supported by hydrological modelling and meet the rehabilitation objectives in Table 4; and
- describe the methods and timing for rehabilitation of the final realigned section of creek channel.

B41. The Applicant must not undertake any construction activities or Quarrying Operations within Substages 8E, 8F or 8G until the Ephemeral Creek Management Plan is approved by the Planning Secretary.

B42. The Applicant must implement the Ephemeral Creek Management Plan approved by the Planning Secretary.

TRANSPORT

Works within Hume Highway Motorway Road Reserve

B43. Prior to commencing Quarrying Operations in the Stage 8 Area, the Applicant must make an application to TfNSW under Section 138 of the *Roads Act 1993* for any proposed works within the Hume Highway Motorway Road Reserve (including the area under the Menangle Bridges).

B44. The Applicant must enter into a legally binding agreement with TfNSW (eg a licence, not a lease or an easement), for the construction, operation and decommissioning of the conveyor within the Hume Highway Motorway Road Reserve (including under the Menangle Bridges). The legally binding agreement must be executed prior to any construction within the road reserve. All TfNSW legal costs associated with drafting and executing the legally binding agreement must be borne by the Applicant.

B45. The Applicant must:

- provide a sealed access under and adjacent to the Menangle Bridges and comply with TfNSW drainage and pavement standards;
- restrict vehicular access under Menangle Bridge to light vehicles only;
- provide unrestricted access to TfNSW to undertake maintenance on the Menangle Bridges and associated facilities at all times;
- remove any detritus associated the construction and use of the access road under and adjacent to the Menangle Bridges;
- protect the piers of the Menangle Bridges, as well as any other part of the bridge structure and associated facilities from any potential damage as a result of the development;

B46. In making the application to TfNSW required under condition B43, the Applicant must provide:

- (a) details demonstrating how the requirements in condition B45 will be met during the early establishment phase of the development, including:
 - (i) sealing and drainage design details for the access road under and adjacent to the Menangle Bridges; and
 - (ii) anchoring details for any structure(s) associated with the development that may become floating debris during flood events; and
- (b) details demonstrating how the compliance with the requirements in condition B45 will be maintained over the life of the development.

B47. The Applicant must ensure that works undertaken within the Hume Highway Motorway Road Reserve do not in any way destabilise the foundations of the Hume Highway, including the Menangle Bridges. Should rectification works be required as a result of the development, they must be undertaken by the Applicant in accordance with TfNSW requirements and standards, and at no expense to TfNSW.

B48. The Applicant must not undertake any works within the Hume Highway Motorway Road Reserve (including the area under the Menangle Bridges) without the consent of TfNSW under Section 138 of the *Roads Act 1993*.

Road Safety and Condition Audit

B49. Within 12 months of commencing Quarrying Operations in the Stage 8 Area, and every five years thereafter until the conclusion of Quarrying Operations, the Applicant must undertake a Road Safety and Condition Audit for the development, to the satisfaction of the Planning Secretary. This Audit must:

- (a) be undertaken by a suitably qualified independent expert/s whose appointment has been endorsed by the Planning Secretary;
- (b) be prepared in consultation with Council;
- (c) assess the safety, performance and condition of the site's vehicular access onto Menangle Road, including the associated acceleration and deceleration lanes;
- (d) identify any road works that are required to ensure compliance with relevant Austroads standards or relevant Council requirements;
- (e) be documented in a Road Safety and Condition Audit Report which must be submitted to Council and the Planning Secretary for approval within three months of commencing the Audit.

B50. Within 12 months of completing each Road Safety and Condition Audit required under condition B49 of this Schedule, unless otherwise agreed by the Planning Secretary, the Applicant must complete any road works recommended in the Audit, to the satisfaction of Council. If there is a dispute regarding the implementation of any recommendations contained in the Audit, the Applicant may refer the matter to the Planning Secretary for resolution.

Continuation of Rehabilitation Levy

B51. For the duration of the Stage 8 Operations, the Applicant must continue to pay Council a rehabilitation levy on all sand and soil removed from the Stage 8 Area in accordance with the existing rates, calculation methods and indexation required under condition 26 of Schedule 1. The first instalment of these payments is to be made based on the most recent Index Review Date under Schedule 1.

Monitoring of Product Transport

B52. The Applicant must keep accurate records of all truck movements to and from the site (including time of arrival and dispatch) and publish a summary of records on its website every 6 months.

Transport Operating Conditions

B53. No direct access to or from the development via the Hume Highway is permitted.

B54. The Applicant must:

- (a) ensure that all laden trucks entering or exiting the site have their loads covered;
- (b) ensure that all laden trucks exiting the site are cleaned of material that may fall from vehicles, before leaving the site;
- (c) take all reasonable steps to minimise traffic safety issues and disruption to local road users; and
- (d) take all reasonable steps to ensure that appropriate signage is displayed on all trucks used to transport quarry products from the development so they can be easily identified by other road users.

Traffic Management Plan

B55. The Applicant must prepare a Traffic 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 whose appointment has been endorsed by the Planning Secretary;

- (b) be prepared in consultation with TfNSW and Wollondilly Shire and Campbelltown Councils;
- (c) include details of all transport routes and traffic types to be used for development-related traffic;
- (d) describe the processes in place for the control of truck movements entering and exiting the site;
- (e) include details of the measures to be implemented to minimise traffic safety issues and disruption to local road users;
- (f) 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
 - (iii) implement safe and quiet driving practices;
- (g) describe the measures to be put in place to ensure compliance with the Drivers' Code of Conduct; and
- (h) describe measures to minimise the transmission of dust and tracking of material onto the surface of public roads from vehicles exiting the site.

B56. The Applicant must not commence Quarrying Operations in the Stage 8 Area until the Traffic Management Plan is approved by the Planning Secretary.

B57. The Applicant must implement the Traffic Management Plan as approved by the Planning Secretary.

HERITAGE

Heritage Operating Conditions

B58. The Applicant must ensure that the development does not cause any direct or indirect impact on any identified heritage item located outside the approved disturbance area.

B59. If suspected human remains are discovered on site, then all work surrounding the area must cease, and the area must be secured. The Applicant must immediately notify NSW Police and Heritage NSW, and work must not recommence in the area until authorised by NSW Police and Heritage NSW.

B60. If any previously unknown Aboriginal object or Aboriginal place is discovered in the Stage 8 Area:

- (a) all work in the immediate vicinity of the object or place must cease immediately;
- (b) a 10 metre buffer area around the object or place must be cordoned off; and
- (c) Heritage NSW must be contacted immediately.

B61. Work in the immediate vicinity of an object or place subject to condition B60 may only recommence if:

- (a) the potential Aboriginal object or Aboriginal place is confirmed by Heritage NSW upon consultation with the Registered Aboriginal Parties not to be an Aboriginal object or Aboriginal Place; or
- (b) an Aboriginal Heritage Impact Permit is obtained under section 90 of the *National Parks and Wildlife Act 1974*, and the Aboriginal Cultural Heritage Management Plan is revised to include appropriate measures in respect the Aboriginal object or Aboriginal place, to the satisfaction of the Planning Secretary.

Aboriginal Cultural Heritage Management Plan

B62. The Applicant must prepare an Aboriginal Cultural Heritage 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 whose appointment has been endorsed by the Planning Secretary;
- (b) be prepared in consultation with Heritage NSW and Registered Aboriginal Parties;
- (c) describe the measures to be implemented within the Stage 8 Area, Nepean River Buffer Zone and Restoration Area to:
 - (i) ensure all workers on the site receive suitable Aboriginal cultural heritage 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;
 - (ii) protect, monitor and manage Aboriginal objects and Aboriginal places;
 - (iii) protect Aboriginal objects and Aboriginal places located outside the approved disturbance area from impacts of the development;
 - (iv) manage any new Aboriginal objects or Aboriginal places discovered during the life of the development;
 - (v) maintain and manage reasonable access for relevant Aboriginal stakeholders to Aboriginal objects and Aboriginal places (outside of the approved disturbance area); and
 - (vi) facilitate ongoing consultation and involvement of Registered Aboriginal Parties in the conservation and management of Aboriginal cultural heritage on the site.

- B63. The Applicant must not commence Quarrying Operations in the Stage 8 Area until the Aboriginal Cultural Heritage Management Plan is approved by the Planning Secretary.
- B64. The Applicant must implement the Aboriginal Cultural Heritage Management Plan approved by the Planning Secretary.

BIODIVERSITY AND REHABILITATION

Construction of Linear Infrastructure

- B65. Prior to commencing construction of any linear infrastructure required for the carrying out of the development (including conveyors, access roads and haul roads), the Applicant must:
- determine the final alignment of the linear infrastructure by survey;
 - minimise the environmental impacts of the alignment of this infrastructure, where practicable;
 - map the final vegetation clearance, excluding any vegetation within the approved disturbance area as identified under condition A22 of Schedule 2;
 - submit a survey plan of the disturbance boundaries for linear infrastructure and their respective GPS coordinates to the Planning Secretary; and
 - identify relevant ecosystem and species credits required to compensate for the clearance identified in subparagraph (c), to the satisfaction of BCD.
- B66. The Applicant must retire the ecosystem and species credits identified under condition B65(e) in accordance with the Biodiversity Offsets Scheme of the BC Act, to the satisfaction of the BCT.

Biodiversity Offset Strategy

- B67. Prior to commencing Quarrying Operations in the Stage 8 Area, or other timeframe agreed by the Planning Secretary, the Applicant must make suitable arrangements for the long-term protection of the Restoration Area as described in the documents listed in condition A7(c) of Schedule 2, to the satisfaction of the Planning Secretary.
- B68. If the Restoration Area does not meet the listing criteria of the targeted communities or the completion criteria in Table 6 in Appendix 7, within the timeframes established in the Biodiversity and Rehabilitation Management Plan, then the Applicant must retire the relevant deficient biodiversity credits in accordance with the Biodiversity Offsets Scheme of the BC Act, to the satisfaction of the BCT.
- B69. The Applicant may satisfy condition B67 of Schedule 2 by establishing a positive covenant on title under section 88E of the *NSW Conveyancing Act 1919*. If the Applicant seeks to establish a positive covenant on title:
- the positive covenant must stipulate that the Applicant will manage the Restoration Area and all rehabilitated Substages in accordance with the Biodiversity and Rehabilitation Management Plan required under condition B73 of Schedule 2; and
 - the Applicant must establish a trust with sufficient funds (calculated in accordance with the total fund deposit requirements for a biodiversity stewardship site in accordance with BC Act) to provide for the ongoing management of the Restoration Area and all rehabilitated Substages in accordance with the Biodiversity and Rehabilitation Management Plan,
- to the satisfaction of the Planning Secretary.

Rehabilitation Objectives

- B70. The Applicant must rehabilitate all areas impacted by the Stage 8 Operations to the satisfaction of the Planning Secretary. This rehabilitation must be consistent with the final rehabilitation plans submitted to the Planning Secretary under condition A11 of Schedule 2 and must comply with the objectives in Table 4, to the satisfaction of the Planning Secretary.

Table 4: Rehabilitation objectives

Feature	Objective
Stage 8 Area	<ul style="list-style-type: none"> Safe (both within the site and in relation to downstream environs, including under flood conditions) Hydraulically, geotechnically and geomorphologically 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 or the Hume Highway

<i>Surface infrastructure</i>	<ul style="list-style-type: none"> • Conveyor decommissioned and removed, unless otherwise agreed by TfNSW and the Planning Secretary • All other surface infrastructure decommissioned and removed, unless otherwise agreed by the Planning Secretary
<i>Quarry Substages</i>	<ul style="list-style-type: none"> • Pit floor partially backfilled with sufficient and appropriate material to promote establishment of River-Flat Eucalypt Forest EEC • Substages progressively landscaped and vegetated to meet the objectives, performance and completion criteria in Table 6 in Appendix 7 • Batters to be established to a maximum slope of 1:1 (V:H) along the landward edge of each Substage and 1:5 (V:H) adjacent to the Nepean River Buffer Zone
<i>Final Landform</i>	<ul style="list-style-type: none"> • No reduction in flood storage capacity, compared with pre-development conditions, unless otherwise agreed by the Planning Secretary • Designed to incorporate geomorphological features to allow for the free draining discharge of clean water from the site • Minimise sediment laden run-off into the Nepean River
<i>Water Quality</i>	<ul style="list-style-type: none"> • Water discharged from the site is suitable for receiving waters and capable of supporting existing aquatic ecology and riparian vegetation
<i>Community</i>	<ul style="list-style-type: none"> • Ensure public safety

Progressive Rehabilitation

B71. The Applicant must rehabilitate the Substages progressively, to the satisfaction of the Planning Secretary.

B72. Unless otherwise agreed by the Planning Secretary, the Applicant must ensure that:

- (a) no more than two Substages are opened, excavated or worked at any one time without the written approval of the Planning Secretary;
- (b) the active extraction area in all combined Substages does not exceed 0.33 hectares at any one time;
- (c) the area of exposed ground at any one time is minimised as far as reasonable and feasible, for the life of the development;
- (d) Quarrying Operations do not progress from one phase of the development to another unless the progressive rehabilitation performance criteria in the Biodiversity and Rehabilitation Management Plan have been met (with the exception of in the active extraction area) for the previous phase (see condition B73(d) of Schedule 2); and
- (e) the post-extraction batter along the landward edge of each Substage does not exceed a maximum slope of 1:1 (V:H) or the natural underlying sandstone profile.

Biodiversity and Rehabilitation Management Plan

B73. The Applicant must prepare a Biodiversity and Rehabilitation 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 prepared in consultation with BCD and Council;
- (c) describe the short, medium, and long-term measures to be undertaken to:
 - (i) ensure compliance with the biodiversity objectives outlined in Table 6 in Appendix 7;
 - (ii) ensure compliance with the rehabilitation objectives outlined in Table 4 of Schedule 2; and
 - (iii) prevent impacts on aquatic biodiversity, including through the stabilisation of riverbanks and the prevention of sediment-laden runoff;
- (d) include detailed progressive rehabilitation performance criteria that must be met for each phase of the development before extraction can progress into subsequent phases;
- (e) include detailed performance and completion criteria for the Restoration Area and the final rehabilitation of the Stage 8 Area (including timeframes for the achievement of the listing criteria of the targeted communities) based on the performance and completion criteria in Table 6 in Appendix 7;
- (f) include a program to monitor, independently audit and report on progress against the criteria in sub-paragraphs (d) and (e), including reporting in the Annual Review;
- (g) include an evaluation of the performance of the Restoration Area and the progressive rehabilitation of the Stage 8 Area against the performance and completion criteria required under paragraph (d) above;

- (h) include triggers for remedial action (including additional planting or seeding), where the performance or completion criteria required under (d) and (e) above are not met;
 - (i) describe management measures to ensure that Quarrying Operations do not encroach on the Nepean River Buffer Zone and Exclusion Areas;
 - (j) include a detailed description of the measures to be implemented to:
 - (i) demonstrate compliance with conditions B76 and B78;
 - (ii) manage the collection and propagation of seed;
 - (iii) trial methods of extraction of seed resources on site and implement the most effective method of seed recovery;
 - (iv) minimise impacts on tree hollows and termite mounds where reasonable and feasible;
 - (v) minimise impacts on fauna, including undertaking pre-clearance surveys and supervision (by an appropriately qualified person) of the felling of habitat trees;
 - (vi) protect native vegetation and fauna habitat outside the approved disturbance area, including in the Restoration Area;
 - (vii) implement the *Stage 8 Area Weed Control Strategy* in the Amended Project Summary, except where varied by condition A18 of Schedule 2;
 - (viii) control feral pests;
 - (ix) control erosion;
 - (x) control unrestricted access;
 - (xi) manage bushfire hazards;
 - (xii) rehabilitate any areas of the Nepean River that are materially harmed by the development (including indirect or incidental impacts); and
 - (xiii) progressively rehabilitate the site and reasonably and feasibly minimise disturbance areas; and
 - (xiv) ensure the successful rehabilitation and protection of Stages 6 and 7 until the completion of Quarrying Operations in the Stage 8 Area;
 - (k) include an annual program to monitor and report on:
 - (i) the effectiveness of the measures required under (j) above;
 - (ii) progress against the detailed performance and completion criteria required under (d) and (d) above;
 - (iii) any progressive improvements that could be implemented to improve biodiversity outcomes; and
 - (iv) any additional or remedial actions required over the next 12 months;
 - (l) identify the potential risks to the successful rehabilitation of the Stage 8 Area, particularly where rehabilitation is damaged or delayed by flooding, and include a detailed description of the contingency measures to be implemented to mitigate against these risks; and
 - (m) include details of who would be responsible for monitoring, reviewing, and implementing the plan.
- B74. Subject to condition A29, the Applicant must not commence Quarrying Operations in the Stage 8 Area until the Biodiversity and Rehabilitation Management Plan is approved by the Planning Secretary.
- B75. The Applicant must implement the Biodiversity and Rehabilitation Management Plan as approved by the Planning Secretary.
- B76. The Applicant must place or create a minimum of 106 nest boxes or tree hollows within the Restoration Area within 12 months of commencing Quarrying Operations in the Stage 8 Area.
- B77. The Applicant must, to the greatest extent practicable, maximise the salvage of resources within the Stage 8 Area, including retention of:
- (a) nut and seed resources from native trees; and
 - (b) leaf and small branch material for mulching,
- for beneficial reuse on the site, including in rehabilitated Substages and in the Restoration Area.
- B78. Following the conclusion of extraction in each Substage, the Applicant must actively place logs and woody debris salvaged from the approved disturbance area within the completed Substage at the following ratios:
- (a) logs and woody debris at least 10 cm in diameter and greater than 0.5 m in length are to be placed in a configuration that reflects natural systems, such that there is overall at least 400 m of this woody debris per hectare for all completed Substages; and
 - (b) large woody debris at least 50 cm in diameter and greater than 0.5 m in length, such that there is overall at least 100 m of this large woody debris per hectare for all completed Substages.

Disposal of Vegetation (Stage 8)

B79. The Applicant may undertake timber milling in Stage 8, provided this timber milling occurs outside of the Nepean River Buffer Zone and the Exclusion Areas, and that the Applicant can demonstrate ongoing compliance with condition B78 of this Schedule.

Additional Rehabilitation Requirements for Stages 6 and 7

B80. The Applicant must rehabilitate 1.22 ha within Stage 6 and 3.44 ha within Stage 7 of the development in accordance with the objectives and the performance and completion criteria in Table 6 in Appendix 6.

B81. By the end of December 2020, or other timing as agreed by the Planning Secretary, the Applicant must submit a Vegetation Management Plan for Stages 6 and 7 to the Planning Secretary for approval. This plan must:

- (a) satisfy the relevant requirements of condition 13 of Schedule 1;
- (b) clearly define the extent and scope of Stage 6 vegetated lands;
- (c) clearly define the extent and scope of Stage 7 vegetated lands and identifies that the diversity of species established via retention of current species, tubestock planting or direct seeding is to be raised to deliver the native plant species diversity identified in Table 5 in Appendix 6;
- (d) establish baseline data for the existing habitat in the Stage 6 and 7 areas;
- (e) describe how the Stage 6 and 7 vegetated lands would be managed and how habitat would be established and retained; and
- (f) include detailed biodiversity objectives and performance and completion criteria for Stages 6 and 7 of the development, based on the general objectives and performance and completion criteria in Table 5 in Appendix 6,

to the satisfaction of the Planning Secretary.

B82. The Applicant must implement the Vegetation Management Plan for Stages 6 and 7 to the satisfaction of the Planning Secretary.

Rehabilitation Bond

B83. Within 6 months of the approval of the Biodiversity and Rehabilitation Management Plan, the Applicant must lodge a Rehabilitation Bond with the Department to ensure that rehabilitation of the Stage 8 Area is implemented in accordance with the performance and completion criteria set out in the plan and the relevant conditions in Schedule 2 of this consent. The sum of the bond must be an amount agreed by the Planning Secretary and determined by:

- (a) calculating the cost of rehabilitating all disturbed areas of the site at third party rates (other than land acquisition costs), taking into account the 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.

B84. The calculation of the Rehabilitation Bond must be submitted to the Department for approval at least 2 months prior to the lodgement of the bond.

B85. 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 Biodiversity and Rehabilitation Management Plan;
- (b) the completion of an Independent Environmental Audit in which recommendations relating to the implementation of the Biodiversity and Rehabilitation Management Plan have been made; or
- (c) in response to a request by the Planning Secretary.

B86. If rehabilitation 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.

B87. If rehabilitation 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.

B88. If the Applicant establishes a positive covenant on title under section 88E of the *NSW Conveyancing Act 1919* under condition B69, then the Planning Secretary may waive the requirement for all or part of the Rehabilitation Bond required under conditions B83 to B87.

Weed Management

B89. The Applicant must manage noxious weeds on the site in accordance with the Biodiversity and Rehabilitation Management Plan, and subject to the restrictions in condition A18 of this Schedule, to the satisfaction of the Planning Secretary.

VISUAL

B90. The Applicant must:

- (a) take all reasonable steps to minimise the visual and off-site lighting impacts of the development, including potential lighting impacts on the Hume Highway;
- (b) ensure that the visual appearance of all new structures, facilities or works (including paint colours and specifications) is aimed at blending as far as possible with the surrounding landscape; and
- (c) take all reasonable steps to:
 - (i) shield views of Quarrying Operations and associated equipment from users of public roads and at privately-owned residences; and
 - (ii) direct any on-site lighting downwards to avoid lighting impacts on the Hume Highway.

WASTE

B91. 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 and Council;
- (b) minimise the waste generated by the development;
- (c) ensure that the waste generated by the development is appropriately stored, handled, and disposed of; and
- (d) report on waste minimisation and management in the Annual Review.

B92. 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

B93. 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

B94. 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

B95. 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, 2006) 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 or air quality criterion in PART B of Schedule 2 following the date of commencement of Quarrying Operations in the Stage 8 Area, the Applicant must provide details of the exceedance to any affected landowners/tenants if the Applicant has not otherwise reached an agreement to exceed the relevant criteria with the affected landowner pursuant to condition B5 or B12. For any exceedance of any air quality criterion in PART B of this consent, the Applicant must also provide to any affected land owners and tenants a copy of the fact sheet entitled “*Mine Dust and You*” (NSW Health, 2017).

INDEPENDENT REVIEW

- C2. If, at any time following the date of commencement of Quarrying Operations in the Stage 8 Area, a landowner considers the development to be exceeding any noise or air quality criterion in PART B of Schedule 2, they may ask the Planning Secretary in writing for an independent review of the impacts of the development on their land.
- C3. 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.
- C4. If the Planning Secretary is satisfied that an independent review is warranted, then 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 Schedule 2; and
 - (iii) if the development is not complying with that criteria, identify measures that could be implemented to ensure compliance with the relevant criteria; and
 - (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 to the satisfaction of the Planning Secretary. 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;
 - (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 Quarrying Operations in the Stage 8 Area until the Environmental Management Strategy is approved by the Planning Secretary.
- D3. The Applicant must implement the Environmental Management Strategy as approved by the Planning Secretary.

Management Plan Requirements

- D4. Management plans required under this Schedule 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 to the conditions of this consent; or
- (e) the issue of a direction of the Planning Secretary under condition A8 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 Applicant must immediately notify the Department and any other relevant agencies immediately after it becomes aware of an incident. The notification must be in writing to compliance@planning.nsw.gov.au and must comply with the requirements specified in Appendix 8.

Non-Compliance Notification

- D8. Within seven days of becoming aware of a non-compliance, the Applicant must notify the Department of the non-compliance. The notification must be in writing to compliance@planning.nsw.gov.au and identify the development (including the development application number and name), set out the condition of this 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 Quarrying Operations in the Stage 8 Area, 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 A7(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, as they relate to the Stage 8 Area;
 - (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 next 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 any interested person upon request.

Independent Environmental Audit

- D11. Within one year of the commencement of Quarrying Operations in the Stage 8 Area, 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;
- (c) assess the environmental performance of the development and whether it is complying with the relevant requirements in this consent, water licences and mining leases 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 the abovementioned approvals and this consent;
- (e) recommend appropriate measures or actions to improve the environmental performance of the development and any assessment, strategy, plan or program required under the abovementioned approvals and this consent; 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.

Note: *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 and air quality monitoring under Part B of this Schedule is not required at all privately-owned residences and the use of representative monitoring locations can be used to demonstrate compliance with criteria.

ACCESS TO INFORMATION

D15. Prior to commencing Quarrying Operations in the Stage 8 Area, 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 A7(c);
 - (ii) all current statutory approvals for the development;
 - (iii) all approved strategies, plans and programs required under the conditions of this consent;
 - (iv) 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;
 - (v) 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;
 - (vi) a summary of the current stage and progress of the development;
 - (vii) contact details to enquire about the development or to make a complaint;
 - (viii) a complaints register, updated monthly;
 - (ix) the Annual Reviews of the development;
 - (x) 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;
 - (xi) any other matter required by the Planning Secretary; and
- (b) keep such information up to date for the life of the development and to the satisfaction of the Planning Secretary.

Appendix 1 Development Layout

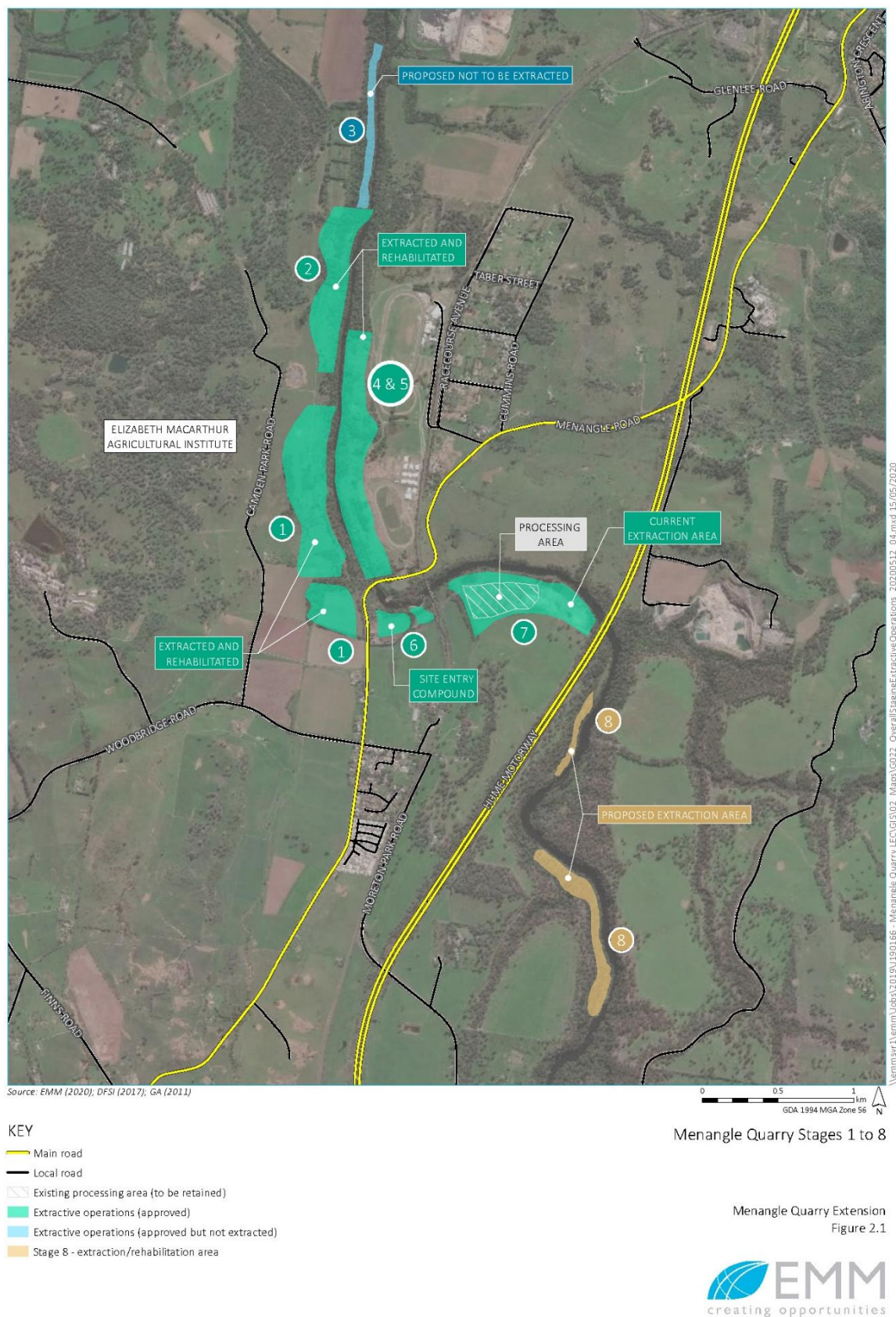
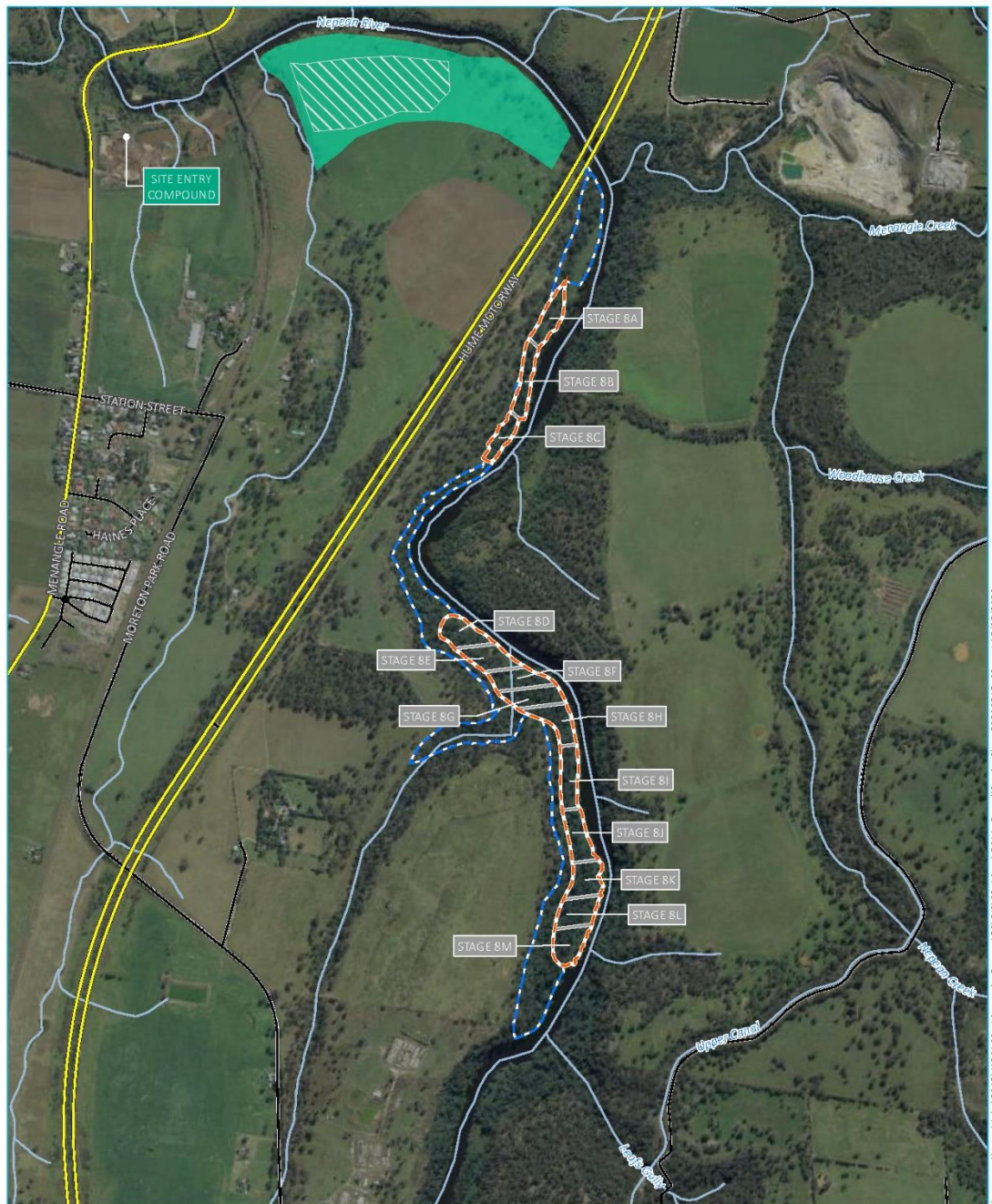


Figure 1 - Overall Development Layout Plan (Stages 1 to 8)



KEY

- Processing area (to be retained)
- Stage 7 - current extractive operations
- Stage 8 - extraction/rehabilitation area
- Stage 8 - restoration area (no extraction)
- Substage boundary
- Main road
- Local road
- Watercourse/drainage line

Overall staging plan

Menangle Quarry Extension
Figure 2.2



Figure 2 – Overall Staging Plan



Figure 3 - Substages 8A to 8C

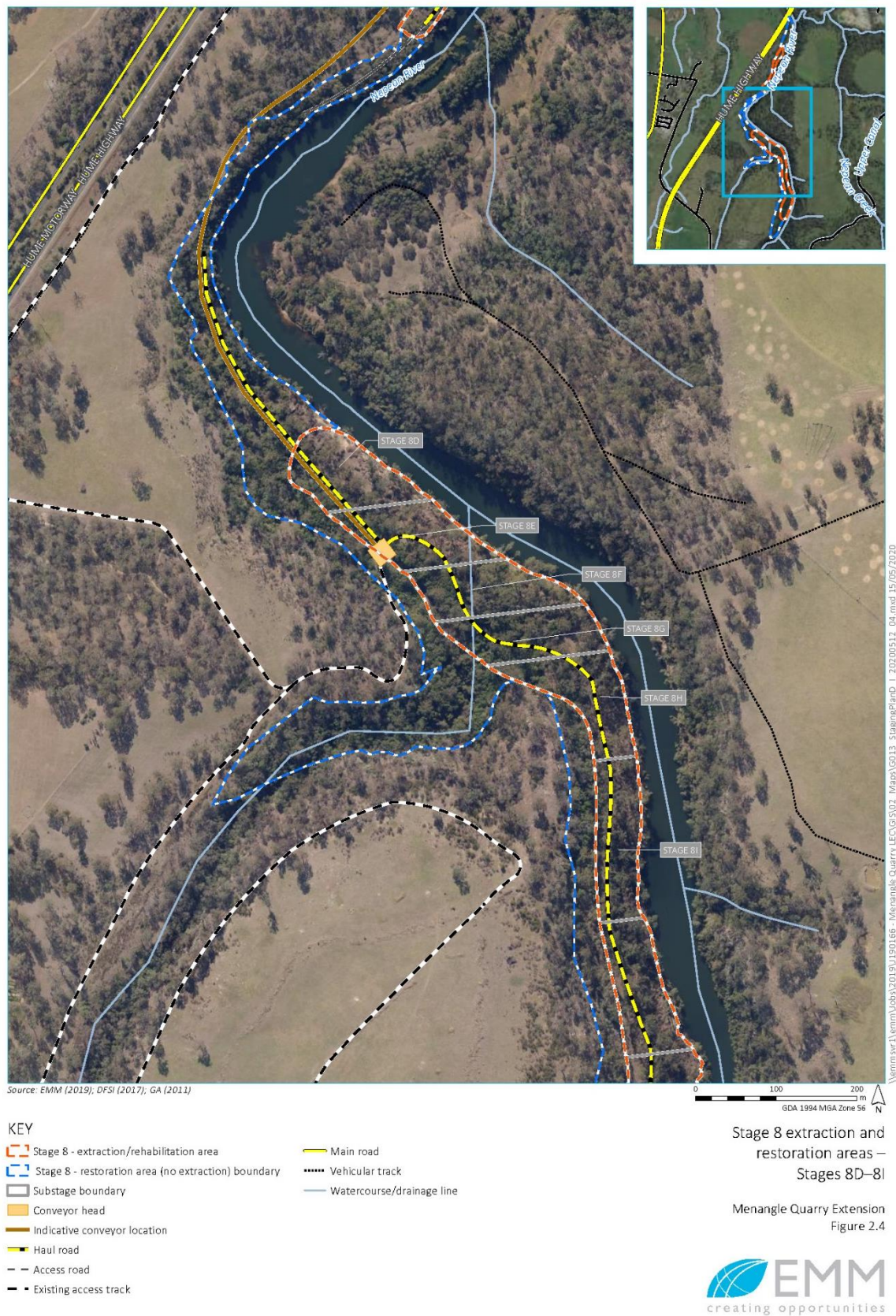
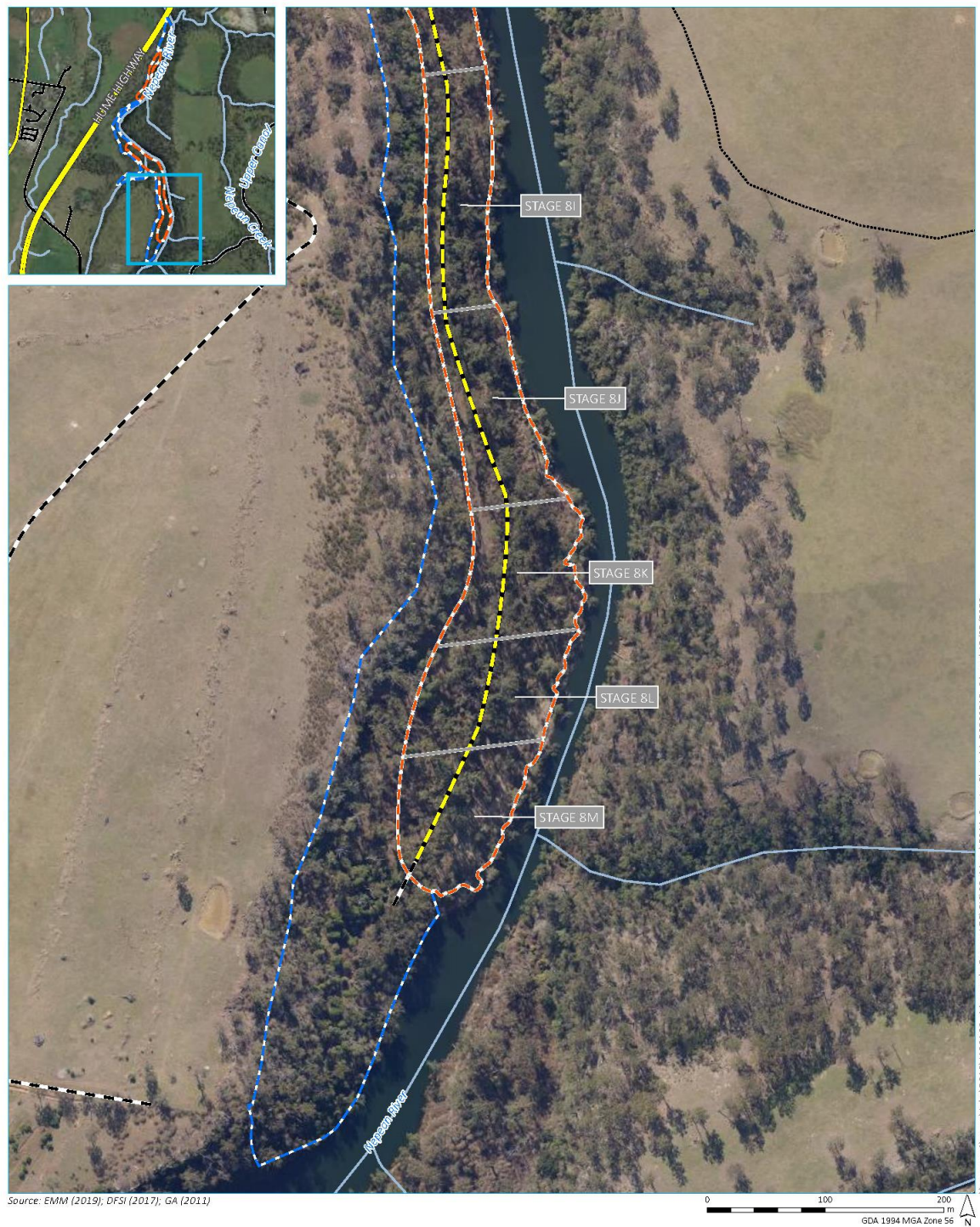


Figure 4 - Substages 8D to 8I



Stage 8 extraction and restoration areas – Stages 8I–8M

Menangle Quarry Extension
Figure 2.5



Figure 5 - Substages 8I to 8M

Appendix 2 Exclusion Areas

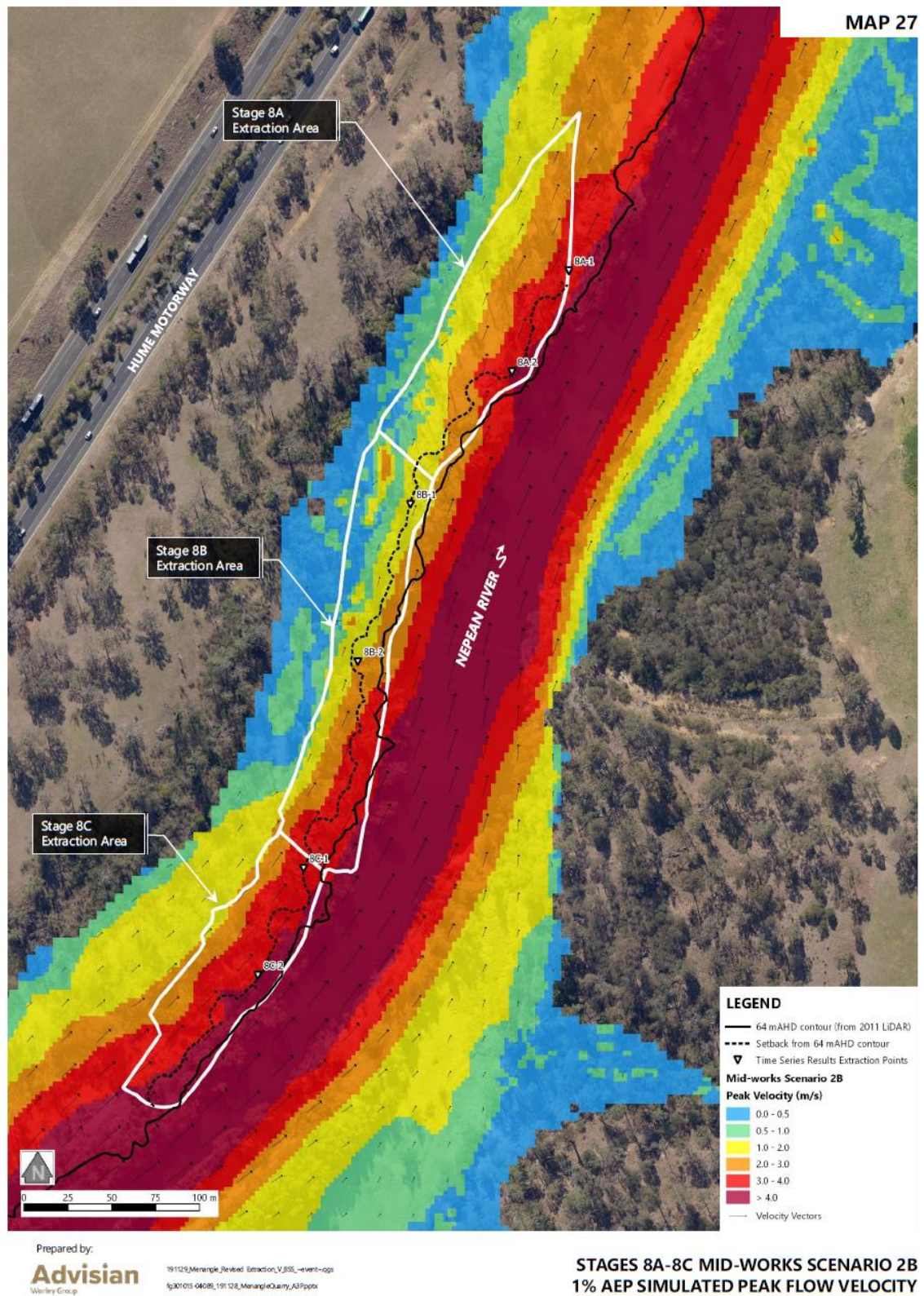


Figure 1 – Exclusion Areas Map Stages 8A-8C

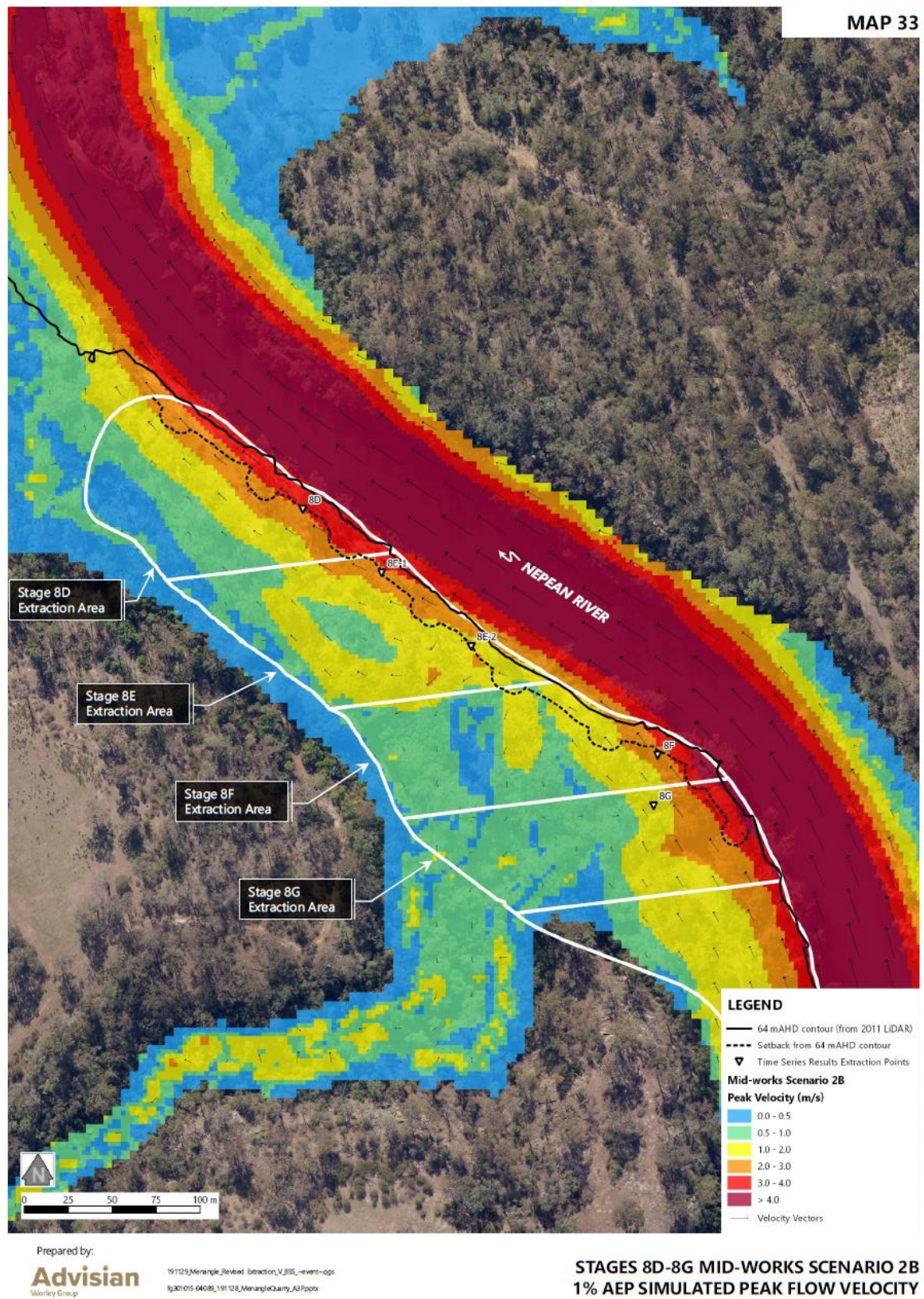
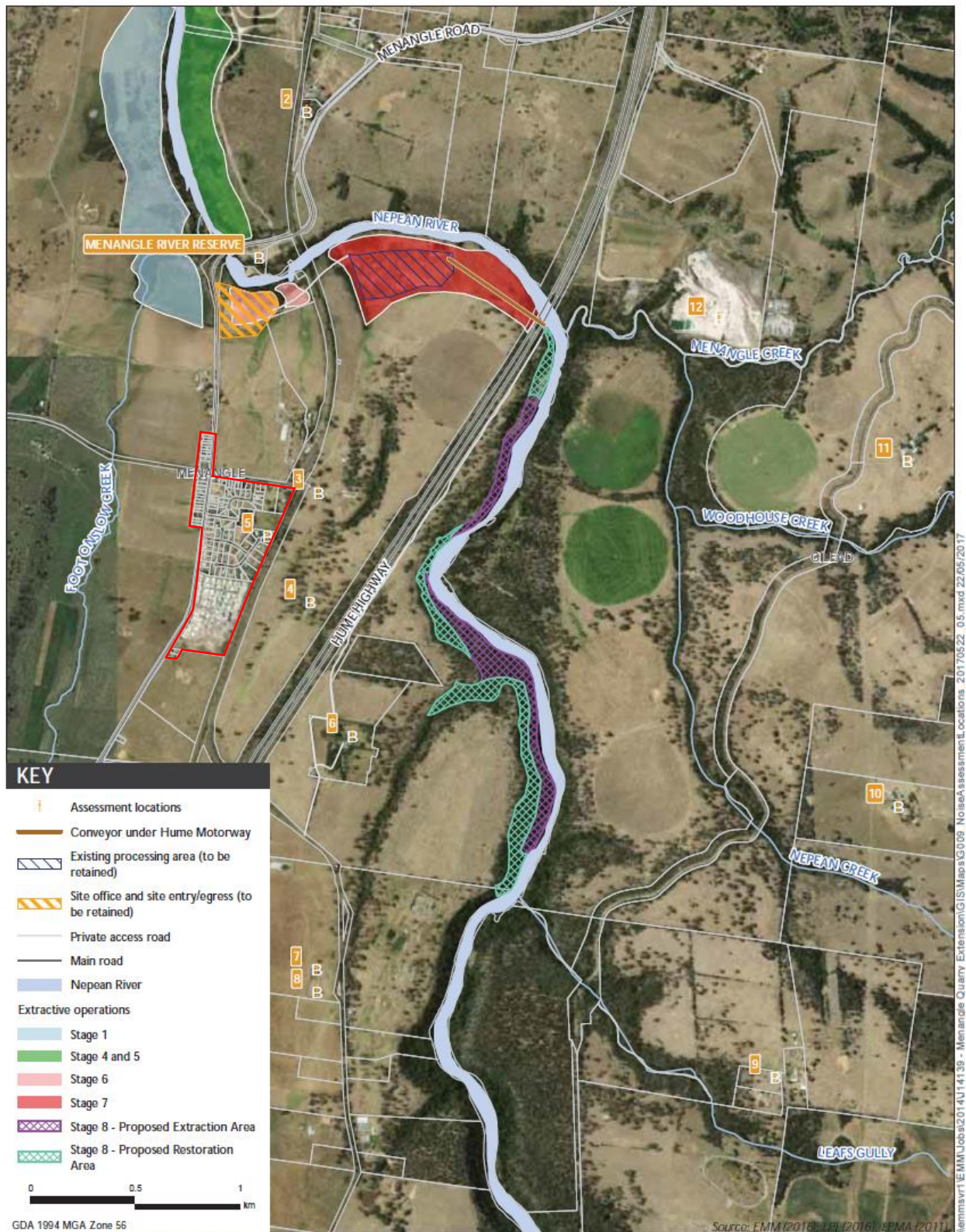


Figure 2 – Exclusion Areas Map Stages 8D-8F

Appendix 3 Receiver Locations



Assessment locations and surrounding land uses

Menangle Sand & Soil Continuation Project

Noise Impact Assessment

Figure 3.1

Figure 6 - Noise Receiver Locations

Appendix 4 Noise Compliance Assessment

Applicable Meteorological Conditions

1. The noise criteria in condition B4 of Schedule 2 are to apply under all meteorological conditions except the following:
 - (a) where 3°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°C/100m and wind speeds greater than 2m/s measured at 10m above ground level; or
 - (iii) temperature inversion conditions greater than 3°C/100m.
 - (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 condition B17 of Schedule 2.

Compliance Monitoring

3. A noise compliance assessment must be undertaken within two months of commencement of Quarrying Operations in the Stage 8 Area. The assessment must be conducted by a suitably qualified and experienced acoustical practitioner and must assess compliance with noise criteria in this consent. A report must be provided to 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 Industrial Noise Policy* (EPA, 2000), in particular the requirements relating to:
 - (c) monitoring locations for the collection of representative noise data;
 - (d) meteorological conditions during which collection of noise data is not appropriate;
 - (e) equipment used to collect noise data, and conformity with Australian Standards relevant to such equipment; and
 - (f) modifications to noise data collected, including for the exclusion of extraneous noise and/or penalties for modifying factors apart from adjustments for duration,
 - (g) 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 Monitoring Locations

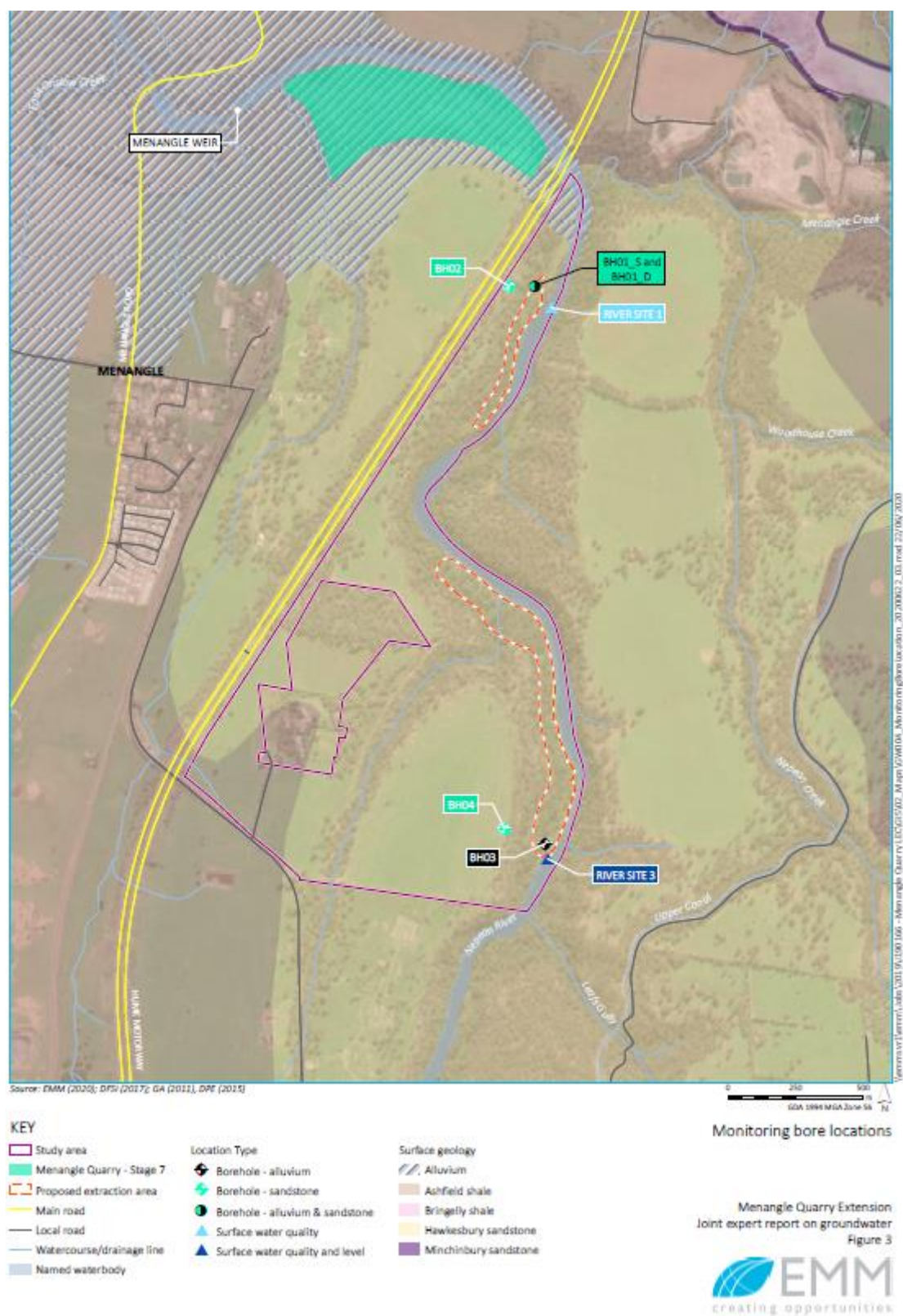


Figure 7 - Groundwater Monitoring Locations

Appendix 6 Additional Stage 6 and 7 Biodiversity and Rehabilitation Requirements

Table 5: Additional Biodiversity Objectives and Performance and Completion Criteria for Stage 6 and 7 Vegetated Areas

Rehabilitation Objective	Performance Indicator	Completion Criteria	Example Justification/validation methods	Performance Guidance
Composition Objective				
The vegetation composition of Stages 6 and 7 are recognisable as River-flat Eucalypt Forest EEC.	Native plant species are characteristic of River-flat Eucalypt Forest EEC as described in the Final Determination. <i>HN526 benchmark for native plant species richness is ≥24 species.</i> <i>It is noted that Eucalyptus botryoides x saligna is not listed in the River-flat Eucalypt Forest EEC Final Determination, but is to count as one species towards the benchmark value.</i>	Presence of a suitable number or proportion of species listed in the Final Determination. This is considered to be ≥24 species, across all monitoring plots, that are aligned with the species list in the Final Determination.	Use of standard 20 x 20 m floristic sampling plot(s) where all flora species present are recorded.	This criterion should be met early (i.e. at 5 years post-establishment), otherwise it is unlikely to be met in the long-term.
Structure Objectives				
The vegetation structure of Stages 6 and 7 are recognisable as, or is trending towards, the target BVT HN526, which provides a suitable surrogate for River-flat Eucalypt Forest EEC	Cover and abundance of plant growth forms are characteristic of, or are trending towards, the target BVT benchmarks, which are provided in the completion criteria.	Total foliage cover of species allocated to Tree (TG) growth form is trending towards the benchmark range of 27.5– 32.5	Use of BAM where all flora species present in a 20 x 20 m plot are recorded, with foliage cover and abundance of each species.	Foliage cover of Tree (TG) growth form is trending towards target value.
		Total foliage cover of species allocated to Shrub (SG) growth form is trending towards the benchmark range of 21-31		Foliage cover of Shrub (SG) growth form is trending towards target value.

Rehabilitation Objective	Performance Indicator	Completion Criteria	Example Justification/validation methods	Performance Guidance
		Total foliage cover of species allocated to Grass and Grass-like (GG) growth form is trending towards the benchmark range of 24.45-30.45		Foliage cover of Grass and Grass-like (GG) growth form is trending towards target value.
		Total foliage cover of species allocated to Forb (FG) growth form is trending towards the benchmark range of 24.45-30.45		Foliage cover of Forb (FG) growth form is trending towards target value.
Function Objectives				
Levels of ecosystem function have been established that demonstrate that Stages 6 and 7 are self-sustainable, or is trending towards self-sustainability	Evidence of plant reproduction and regeneration is present	The cover and species richness of the groundcover, including grasses and forbs, is stable or increasing, and is within the benchmark ranges	The ongoing persistence of groundcover species, which are relatively short lived and for which recruitment is not straightforward to measure, is regarded as evidence of reproduction and regeneration of these species	An initial decline in species richness and cover may occur, however a stabilisation in observed cover and richness should be observed by 5 to 10 years post-establishment.
		Second generation individuals of shrubs and trees are present	Presence of second-generation canopy species is evident within the rehabilitation domain (i.e. not limited to the plot, but present within rehabilitation of the same target community and age).	No performance guidance. The presence of second-generation trees and shrubs may not be evident for many years post-establishment.

Rehabilitation Objective	Performance Indicator	Completion Criteria	Example Justification/validation methods	Performance Guidance
	Cover of exotic species is low	Cover of 'high threat exotic' (HTE) and 'priority weeds' is no more than 2%.	Data collected in accordance with BAM. Sum foliage cover of species identified as 'high threat exotic' under the BAM and 'priority weeds' as identified by the Local Land Services (LLS) in the relevant strategic weed management plan for the region.	Cover of HTE and priority weed species are declining towards target value. Given the very high weed loads it is expected that it will take some time for weed growth to be brought under control and will require ongoing maintenance.
	Indicators of nutrient cycling are suitable for sustaining the target plant community type	Litter cover is within the benchmark range. There is no biometric benchmark, and thus the BAM benchmark of 40 for PCT835 is adopted	Data collected in accordance with BAM via five 1 m ² subplots within the 20 m ² floristic plot	Litter cover is increasing towards target value.
<p>Notes:</p> <p>Achieving biometric vegetation type (BVT) HN526 and/or plant community type (PCT) in the NSW Bionet Vegetation Information System (PCT835), can be used as a suitable surrogate for the EEC. BVT benchmarks are more specific (to vegetation type level, usually with lower and upper thresholds), whereas PCT benchmarks are to a broader vegetation class level (which is a grouping of similar vegetation types). For this reason, BVT benchmarks have generally been utilised in this table as being the best available.</p> <p>The Completion Criteria column refers to the desired end goal, with the Performance Guidance column providing broad guidance on how the completion criteria should be interpreted in terms of producing future performance criteria in relevant Vegetation Management Plan(s). It is noted that the completion criteria and performance indicators in Table 5 will need to be resolved with more specific performance criteria relevant to different areas of the site.</p> <p>It is also noted that stochastic events such as flood or fire might affect the achievement of performance standards and criteria, and whilst the intent will still be to achieve restoration and rehabilitation of the River-flat Eucalypt Forest EEC in the long-term, such events will need to be taken into account on a case by case basis for specific performance standards.</p>				

Appendix 7 Stage 8 Operations Biodiversity and Rehabilitation

Table 6: Biodiversity Objectives and Performance and Completion Criteria

Rehabilitation Objective	Performance Indicator	Completion Criteria	Example Justification/validation methods	Performance Guidance
Composition Objective				
The vegetation composition of the Restoration Area and rehabilitated substages are recognisable as River-flat Eucalypt Forest EEC.	<p>Native plant species are characteristic of River-flat Eucalypt Forest EEC as described in the Final Determination.</p> <p><i>HN526 benchmark for native plant species richness is ≥24 species.</i></p> <p><i>It is noted that Eucalyptus botryoides x saligna is not listed in the River-flat Eucalypt Forest EEC Final Determination, but is to count as one species towards the benchmark value.</i></p>	<p>Presence of a suitable number or proportion of species listed in the Final Determination.</p> <p>This is considered to be ≥24 species, across all monitoring plots, that are aligned with the species list in the Final Determination.</p>	Use of standard 20 x 20 m floristic sampling plot(s) where all flora species present are recorded.	This criterion should be met early (i.e. at 5 years post-establishment), otherwise it is unlikely to be met in the long-term.
Structure Objectives				
The vegetation structure of the Restoration Area and rehabilitated substages are recognisable as, or is trending towards, the target BVT HN526, which provides a suitable surrogate for River-flat Eucalypt Forest EEC	Cover and abundance of plant growth forms are characteristic of, or are trending towards, the target BVT benchmarks, which are provided in the completion criteria.	Total foliage cover of species allocated to Tree (TG) growth form is trending towards the benchmark range of 27.5– 32.5	Use of BAM where all flora species present in a 20 x 20 m plot are recorded, with foliage cover and abundance of each species.	Foliage cover of Tree (TG) growth form is trending towards target value.
		Total foliage cover of species allocated to Shrub (SG) growth form is trending towards the benchmark range of 21-31		Foliage cover of Shrub (SG) growth form is trending towards target value.

Rehabilitation Objective	Performance Indicator	Completion Criteria	Example Justification/validation methods	Performance Guidance
		Total foliage cover of species allocated to Grass and Grass-like (GG) growth form is trending towards the benchmark range of 24.45 - 30.45		Foliage cover of Grass and Grass-like (GG) growth form is trending towards target value.
		Total foliage cover of species allocated to Forb (FG) growth form is trending towards the benchmark range of 24.45 - 30.45		Foliage cover of Forb (FG) growth form is trending towards target value.
Function Objectives				
Levels of ecosystem function have been established that demonstrate the Restoration Area and rehabilitated substages are self-sustainable, or is trending towards self-sustainability	Evidence of plant reproduction and regeneration is present	The cover and species richness of the groundcover, including grasses and forbs, is stable or increasing, and is within the benchmark ranges	The ongoing persistence of groundcover species, which are relatively short lived and for which recruitment is not straightforward to measure, is regarded as evidence of reproduction and regeneration of these species	An initial decline in species richness and cover may occur, however a stabilisation in observed cover and richness should be observed by 5 to 10 years post-establishment.
		Second generation individuals of shrubs and trees are present	Presence of second-generation canopy species is evident within the rehabilitation domain (i.e. not limited to the plot, but present within rehabilitation of the same target community and age).	No performance guidance. The presence of second-generation trees and shrubs may not be evident for many years post-establishment.

Rehabilitation Objective	Performance Indicator	Completion Criteria	Example Justification/validation methods	Performance Guidance
	Cover of exotic species is low	Cover of 'high threat exotic' (HTE) and 'priority weeds' is no more than 2%.	Data collected in accordance with BAM. Sum foliage cover of species identified as 'high threat exotic' under the BAM and 'priority weeds' as identified by the Local Land Services (LLS) in the relevant strategic weed management plan for the region.	Cover of HTE and priority weed species are declining towards target value. Given the very high weed loads it is expected that it will take some time for weed growth to be brought under control and will require ongoing maintenance.
	Indicators of nutrient cycling are suitable for sustaining the target plant community type	Litter cover is within the benchmark range. There is no biometric benchmark, and thus the BAM benchmark of 40 for PCT835 is adopted	Data collected in accordance with BAM via five 1 m ² subplots within the 20 m ² floristic plot	Litter cover is increasing towards target value.
<p>Notes:</p> <p>Achieving biometric vegetation type (BVT) HN526 and/or plant community type (PCT) in the NSW Bionet Vegetation Information System (PCT835), can be used as a suitable surrogate for the EEC. BVT benchmarks are more specific (to vegetation type level, usually with lower and upper thresholds), whereas PCT benchmarks are to a broader vegetation class level (which is a grouping of similar vegetation types). For this reason, BVT benchmarks have generally been utilised in this table as being the best available.</p> <p>The Completion Criteria column refers to the desired end goal, with the Performance Guidance column providing broad guidance on how the completion criteria should be interpreted in terms of producing future performance criteria within the Biodiversity and Rehabilitation Management Plan required under condition B73 of Schedule 2 of this consent. It is noted that the completion criteria and performance indicators in Table 6 will need to be resolved with more specific performance criteria relevant to different areas of the site. For example, the Amended restoration area will contain a tree overstorey and thus the performance standard should be higher compared to the Amended extraction area where some time will be required for the tree overstorey cover to become established. Refined performance criteria are to be included in the Biodiversity and Rehabilitation Management Plan.</p> <p>It is also noted that stochastic events such as flood or fire might affect the achievement of performance standards and criteria, and whilst the intent will still be to achieve restoration and rehabilitation of the River-flat Eucalypt Forest EEC in the long-term, such events will need to be taken into account on a case by case basis for specific performance standards.</p>				

Appendix 8 INCIDENT NOTIFICATION AND REPORTING REQUIREMENTS

WRITTEN INCIDENT NOTIFICATION REQUIREMENTS

1. A written incident notification addressing the requirements set out below must be emailed to the Department at the following address: compliance@planning.nsw.gov.au 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 Schedule 2 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
 details of any communication with other stakeholders regarding the incident.