

# Project Approval

## Section 75J of the *Environmental Planning & Assessment Act 1979*

I approve the project application referred to in schedule 1, subject to the conditions in schedules 2 to 5.

These conditions are required to:

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

The Hon Tony Kelly MLC  
Minister for Planning

Sydney 6 January 2010

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***The Department has prepared a consolidated version of the consent which is intended to include all modifications to the original determination instrument.***

***The consolidated version of the consent has been prepared by the Department with all due care. This consolidated version is intended to aid the consent holder by combining all consents relating to the original determination instrument but it does not relieve a consent holder of its obligation to be aware of and fully comply with all consent obligations as they are set out in the legal instruments, including the original determination instrument and all subsequent modification instruments.***

# CONSOLIDATED CONSENT

## SCHEDULE 1

|                            |                                                                                                                                                                                                                                                                                                                                    |
|----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Application No.:</b>    | 06_0295                                                                                                                                                                                                                                                                                                                            |
| <b>Proponent:</b>          | Cadia Holdings Pty Limited                                                                                                                                                                                                                                                                                                         |
| <b>Approval Authority:</b> | Minister for Planning                                                                                                                                                                                                                                                                                                              |
| <b>Land:</b>               | See Appendix 1                                                                                                                                                                                                                                                                                                                     |
| <b>Project:</b>            | Cadia East Project, including the: <ul style="list-style-type: none"><li>• Cadia East underground mine;</li><li>• Cadia Hill open cut mine;</li><li>• Ridgeway underground mine;</li><li>• Blayney and CVO Dewatering Facilities; and</li><li>• ancillary infrastructure, together known as the Cadia Valley Operations.</li></ul> |

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Blue type represents September 2010 modification – MOD 1

Red type represents October 2010 modification – MOD 2

Green type represents August 2011 modification – MOD 3

Light blue type represents May 2014 modification – MOD 4

Orange represents August 2014 modification – MOD 5

Pink type represents August 2015 modification - MOD 6

Purple type represents August 2015 modification - MOD 7

Grey type represents April 2016 modification – MOD 8

Orange type represents April 2017 modification – MOD 9

Lime type represents March 2018 modification – MOD 10

Mustard type represents April 2018 modification – MOD 11

Lilac type represents September 2018 modification – MOD 12

Blue (Accent 1, 25% Darker) represents December 2019 modification – MOD 13

Brown type represents December 2021 modification – MOD 14

# CONSOLIDATED CONSENT

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# CONSOLIDATED CONSENT

## DEFINITIONS

|                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|--------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| AHD                      | Australian Height Datum                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Ancillary Infrastructure | Infrastructure that is ancillary to the operation of the project, including: <ul style="list-style-type: none"> <li>• items listed in Table 2-3 of the EA, plus project-related items within new mining lease application areas described in the EA;</li> <li>• the concentrate and water pipelines to the Blayney and CVO dewatering facilities; and</li> <li>• the pipeline, pumps, powerlines and access tracks associated with the Belubula River pumping station and Flyers Creek weir</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Annual Review            | The review required by condition 2 of schedule 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| BCA                      | Building Code of Australia                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| BCS                      | Biodiversity, Conservation and Science Directorate, within the Department                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| CCC                      | Community Consultative Committee                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Councils                 | Orange City Council, Blayney Shire Council and Cabonne Shire Council                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Day                      | The period from 7am to 6pm on Monday to Saturday, and 8am to 6pm on Sundays and Public Holidays                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Department               | Department of Planning, Industry and Environment (DPIE)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| DPIE Water               | Water Group within the Department                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| EA                       | The <i>Environmental Assessment Cadia East Project</i> (2 volumes), dated June 2009 as modified by the: <ul style="list-style-type: none"> <li>• <i>Cadia East Project – Response Submissions</i>, dated 17 November 2009;</li> <li>• <i>Cadia East Project – Biodiversity Offset</i>, dated 28 September 2009;</li> <li>• <i>Cadia Hill Decline Environmental Assessment</i>, dated July 2010;</li> <li>• <i>Blayney Dewatering Facility Environmental Assessment</i>, dated August 2010;</li> <li>• <i>Concentrate and Return Water Pipeline Modification Environmental Assessment</i>, dated June 2011;</li> <li>• <i>Cadia East Surface Preconditioning Program Environmental Assessment</i>, dated February 2014;</li> <li>• <i>Cadia East Surface Blasthole Preconditioning Program Environmental Assessment</i>, dated July 2014;</li> <li>• <i>Cadia Valley Operations Processing Rate Modification Environmental Assessment</i>, dated March 2015, and associated response to submissions;</li> <li>• <i>Cadia Valley Operations Biodiversity Area Offset Modification Environmental Assessment</i>, dated May 2015;</li> <li>• <i>Cadia Valley Operations Surface Preconditioning and On-Site Warehouse Modification Environmental Assessment</i>, dated February 2017;</li> <li>• <i>Cadia Valley Operations Molybdenum Recovery Plant Relocation Modification Environmental Assessment</i>, dated February 2018;</li> <li>• <i>Cadia Valley Operations In-Pit Tailings Modification Environmental Assessment</i>, dated March 2018, and associated response to submissions;</li> <li>• <i>Cadia Valley Operations, Cadia Hill Tailings Continuation Modification Statement of Environmental Effects</i>, dated August 2018;</li> <li>• <i>Cadia Valley Operations, Cadia Hill Tailings Completion – Modification Report</i>, dated September 2019; and</li> <li>• <i>Cadia Modification 14 Processing Rate Modification Report</i>, dated December 2020, associated <i>Cadia Modification 14 Processing Rate Submissions Report</i>, dated April 2021, and additional information provided by the Proponent to support the modification application and included in Appendix A of the Department's assessment report on Modification 14.</li> </ul> |
| EPA                      | Environment Protection Authority                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| EP&A Act                 | <i>Environmental Planning and Assessment Act 1979</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| EP&A Regulation          | <i>Environmental Planning and Assessment Regulation 2000</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| EPL                      | Environment Protection Licence issued by EPA under the <i>Protection of the Environment Operations Act 1997</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Evening                  | The period from 6pm to 10pm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Feasible                 | Feasible relates to engineering considerations and what is practical to build                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Heritage NSW             | Heritage NSW, as delegate of the NSW Heritage Council                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Incident                 | A set of circumstances that causes or threatens to cause material harm to the environment, and/or breaches or exceeds the limits or performance measures/criteria in this approval                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Land                     | Land means the whole of a lot, or contiguous lots owned by the same landowner, in a current plan registered at the Land Titles Office at the date of this approval                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Material harm            | Is harm that: <ul style="list-style-type: none"> <li>• involves actual or potential harm to the health or safety of human beings or to ecosystems that is not trivial; or</li> <li>• 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</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |

# CONSOLIDATED CONSENT

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|------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                    | expenses that would be incurred in taking all reasonable and practicable measures to prevent, mitigate or make good harm to the environment)                                                                                             |
| MEG                                | Mining, Exploration and Geoscience within the Department of Regional NSW                                                                                                                                                                 |
| Minimise                           | Implement all reasonable and feasible mitigation measures to reduce the impacts of the project                                                                                                                                           |
| Minister                           | Minister for Planning and Public Spaces, or delegate                                                                                                                                                                                     |
| Mitigation                         | Activities associated with reducing the impacts of the project prior to or during those impacts occurring                                                                                                                                |
| NaHS Solutioning Plant             | The Sodium Hydrosulphide Solutioning Plant, as depicted in Appendix 2                                                                                                                                                                    |
| Night                              | The period from 10pm to 7am on Monday to Saturday, and 10pm to 8am on Sundays and Public Holidays                                                                                                                                        |
| Non-compliance                     | An occurrence, set of circumstances or project that is a breach of this consent but is not an incident                                                                                                                                   |
| 'Non-road' mobile diesel equipment | Mobile equipment used in mining operations that is fitted with a diesel engine with a capacity >30 litres and that is self-propelled or transportable and primarily designed for off-road use                                            |
| NTSF                               | Northern Tailings Storage Facility, as depicted in Appendix 2                                                                                                                                                                            |
| NTSF repair works                  | The encapsulation of the embankment slump of the NTSF, as detailed in Modification 14                                                                                                                                                    |
| Previous EAs                       | The previous environmental impact assessments for the project, as listed in Appendix 3                                                                                                                                                   |
| Privately-owned land               | Land that is not owned by a public agency or a mining company (or its subsidiary)                                                                                                                                                        |
| Project                            | The development as described in the EA (and previous EAs)                                                                                                                                                                                |
| Proponent                          | Cadia Holdings Pty Limited, or its successors in title                                                                                                                                                                                   |
| Reasonable                         | Reasonable relates to the application of judgement in arriving at a decision, taking into account: mitigation benefits, cost of mitigation versus benefits provided, community views and the nature and extent of potential improvements |
| Rehabilitation                     | The treatment or management of land disturbed by the project for the purpose of establishing a safe, stable and non-polluting environment                                                                                                |
| RR                                 | Resources Regulator within the Department of Regional NSW                                                                                                                                                                                |
| Site                               | The land referred to in schedule 1, and listed in Appendix 1                                                                                                                                                                             |
| Secretary                          | Planning Secretary under the EP&A Act, or nominee                                                                                                                                                                                        |
| STSF                               | Southern Tailings Storage Facility, as depicted in Appendix 2                                                                                                                                                                            |

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# CONSOLIDATED CONSENT

## SCHEDULE 2

### ADMINISTRATIVE CONDITIONS

#### OBLIGATION TO MINIMISE HARM TO THE ENVIRONMENT

1. The Proponent shall implement all reasonable and feasible measures to prevent and/or minimise any harm to the environment that may result from the construction, operation, or rehabilitation of the project.

#### TERMS OF APPROVAL

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

*Note: The general layout of the project is shown in Appendix 2.*

3. If there is any inconsistency between the above documents, the most recent document shall prevail to the extent of the inconsistency. However, the conditions of this approval shall prevail to the extent of any inconsistency.
4. Consistent with the requirements of this approval, the Secretary may make written directions to the Proponent 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 approval, including those that are required to be, and have been, approved by the Secretary; and
  - (b) the implementation of any actions or measures contained in any such document referred to in condition 4(a).

#### LIMITS ON APPROVAL

5. Mining operations may take place until 30 June 2031.

*Note: Under this approval, the Proponent is required to rehabilitate the site and perform additional undertakings to the satisfaction of the Secretary and MEG. Consequently this approval will continue to apply in all other respects other than the right to conduct mining operations until the site has been properly rehabilitated.*

6. The Proponent shall not process more than 32 million tonnes of ore from the project in a calendar year, or the alternative maximum of 35 million tonnes of ore is approved as varied by condition 6A.
- 6A. A maximum of 35 million tonnes of ore from the project in a calendar year may be processed on-site, subject to the Proponent commissioning an independent air quality audit report to the satisfaction of the Secretary. The independent audit report must:
  - (a) be prepared in accordance with the Independent Environmental Audit requirements in Schedule 5 of this approval; and
  - (b) describe details and scheduling of all reasonable and feasible best practice measures that are being implemented for managing and minimising off-site air quality impacts of the project, particularly from NTSF, STSF, and ventilations shafts.
7. The Proponent shall not use any cyanide or mercury to process or extract gold/copper from the project.
- 7A. The Proponent must only construct the NTSF and STSF using the centreline or downstream lift construction methodology, unless otherwise agreed by the Secretary.
- 7B. Prior to construction of the NaHS Solutioning Plant, the Proponent must conduct a Hazard and Operability Study, prepared by a suitably qualified, experienced and independent person. The study must be consistent with the Department's *Hazardous Industry Planning Advisory Paper No.8 'HAZOP Guidelines'*. Construction of the NaHS Solutioning Plant must not occur until study recommendations have been considered and, where appropriate, acted upon, to the satisfaction of the Secretary.
- 7C. The storage of sodium hydrosulphide flakes on-site must not exceed 63 tonnes.

#### SURRENDER OF CONSENTS

8. Within 12 months of the date of this approval, or as otherwise agreed by the Secretary, the Proponent shall surrender all existing development consents for the project in accordance with section 4.63 of the EP&A Act, to the satisfaction of the Secretary.

*Note: This approval will apply to all components of the Cadia Valley Operations from the date of approval. The existing management and monitoring plans/strategies/programs/protocols for the project will continue to apply until the approval of the comparable plan/strategy/program under this approval.*

# CONSOLIDATED CONSENT

## STRUCTURAL ADEQUACY

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

*Notes:*

- Under [Part 6](#) of the EP&A Act, the Proponent is required to obtain construction and occupation certificates for the proposed building works;
- [Part 8](#) of the EP&A Regulation sets out the requirements for the certification of the project.

## DEMOLITION

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

## PROTECTION OF PUBLIC INFRASTRUCTURE

11. The Proponent shall:
- repair, or pay the full costs associated with repairing, any publicly-owned infrastructure that is damaged by the project; and
  - relocate, or pay the full costs associated with relocating, any publicly-owned infrastructure that needs to be relocated as a result of the project,
- except where such works have been compensated through the planning agreement referred to in condition 13 below.

## OPERATION OF PLANT AND EQUIPMENT

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

## PLANNING AGREEMENT

13. Within 12 months of the date of this approval, unless otherwise agreed by the [Secretary](#), the Proponent shall enter into a planning agreement with the Councils in accordance with Division 7 of Part 7 of the EP&A Act, that provide for contributions to the Councils for:
- upgrade of Council's road infrastructure affected by the project; and
  - general community enhancement to address social amenity and community infrastructure requirements arising from the project.

The contributions shall be generally consistent with the terms of the offer made in the Proponent's letter dated 17 December 2009, and summarised in Appendix 7.

If there is any dispute between the Proponent and any of the Councils during the formal drafting of the planning agreement, then any of the parties involved may refer the matter to the [Secretary](#) for resolution.

## STAGED SUBMISSION OF STRATEGIES, PLANS OR PROGRAMS

14. **With the approval of the Secretary, the Proponent may:**
- submit any strategy, plan or program required by this consent on a progressive basis; and
  - combine any strategy, plan or program required by this consent with any similar strategy, plan or program required for the Cadia East Project.

To ensure these strategies, plans or programs are updated on a regular basis, the Proponent may at any time submit revised strategies, plans or programs to the Secretary for approval.

With the agreement of the Secretary, the Proponent may prepare any revised strategy, plan or program without undertaking consultation with all parties under the applicable condition of this consent.

*Notes:*

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



# CONSOLIDATED CONSENT

## SCHEDULE 3 ENVIRONMENTAL PERFORMANCE CONDITIONS

### ACQUISITION OF AFFECTED PROPERTIES

#### Acquisition Upon Request

- Upon receiving a written request for acquisition from the owner of the land listed in Table 1, the Proponent shall acquire the land in accordance with the procedures in conditions 5-7 of schedule 4.

Table 1: Land subject to acquisition upon request

|               |
|---------------|
| MC & PA Ewens |
|---------------|

Note: To interpret the location referred to in Table 1, see the applicable figure in Appendix 2.

### NOISE

#### Impact Assessment Criteria

- The Proponent shall ensure that the noise generated by the project does not exceed the noise impact assessment criteria in Table 2 at any residence on privately-owned land or on more than 25 per cent of any privately-owned land.

Table 2: Noise Impact Assessment Criteria dB(A)  $L_{Aeq}$  (15min)

| Location                                                                                                                                                                                                                        | Day | Evening | Night | Night<br>(LA1 (1 min)) |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|---------|-------|------------------------|
| <b>Mining Operations</b>                                                                                                                                                                                                        |     |         |       |                        |
| 41-CW Knox ('Meribah'), 43-CJ Healey ('Triangle Park'), 138-AC & A Bailey ('Mayburies'), 45-CC Colman ('Mirrabooka'), 246-CK Channell and KP & DV Donlan ('Eastburn'), 209-JI McLennan ('Northwest'), 171-GA Knox ('South Log') | 43  | 38      | 38    | 45                     |
| 1-GT & JA Christou ('Coorabin'), 137-MP & LA Ellis ('Argyle'), 169-RL & SL Chamberlain ('Weemalla')                                                                                                                             | 43  | 38      | 37    | 45                     |
| 44-AR Colman ('Triangle Flat'), 105-KA Hughes ('Barton Park'), 133-LC & LR Baker ('Bonnie Glen')                                                                                                                                | 43  | 38      | 36    | 45                     |
| Other privately owned land                                                                                                                                                                                                      | 43  | 38      | 35    | 45                     |
| <b>CVO Dewatering Facility</b>                                                                                                                                                                                                  |     |         |       |                        |
| MC & PA Ewens                                                                                                                                                                                                                   | 50  | 42      | 42    | 45                     |
| GP Nixon & Sons                                                                                                                                                                                                                 | 43  | 35      | 35    | 45                     |
| D Palmer                                                                                                                                                                                                                        | 40  | 39      | 35    | 45                     |
| H Tetlaw                                                                                                                                                                                                                        | 40  | 36      | 35    | 45                     |
| ML Gardner                                                                                                                                                                                                                      | 40  | 35      | 35    | 45                     |
| GJ Keen                                                                                                                                                                                                                         | 39  | 35      | 35    | 45                     |
| D Somerville                                                                                                                                                                                                                    | 38  | 38      | 35    | 45                     |

Notes:

- To interpret the locations referred to Tables 2-5, see the applicable figures in Appendices 2 and 4.
- Noise generated by the project is to be measured in accordance with the relevant requirements, and exemptions (including certain meteorological conditions), of the [Noise Policy for Industry \(NSW EPA, 2017\)](#), or its latest version.
- The noise limits do not apply if the Proponent has an agreement with the relevant owner/s of these residences/land to generate higher noise levels, and the Proponent has advised the Department in writing of the terms of this agreement.
- Noise associated with the mining operations may exceed the night time limits in Table 2 at Property 22 – JL Gill by 1 decibel during construction of the Cadia East mine.



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- 2A. The Proponent must prepare a Noise Impact Validation Report to the satisfaction of the Secretary based on detailed construction methodology and equipment for the construction of the NTSF and STSF embankments and associated infrastructure including haulage roads and transfer of waste rock material. The Noise Impact Validation Report must be prepared by a suitably qualified and experienced person, whose appointment has been approved by the Secretary and be submitted to the Secretary within 3 months of approval of Modification 14.

## Land Acquisition Criteria

3. If the noise generated by the project exceeds the criteria in Table 3 at any residence on privately-owned land or on more than 25 per cent of any privately-owned land, the Proponent shall, upon receiving a written request for acquisition from the landowner, acquire the land in accordance with the procedures in conditions 5-7 of schedule 4.

Table 3: Land acquisition criteria dB(A)  $L_{Aeq}$  (15min)

| Location                             | Day | Evening | Night |
|--------------------------------------|-----|---------|-------|
| <b>Mining Operations</b>             |     |         |       |
| All privately-owned land             | 43  | 43      | 40    |
| <b>CVO Dewatering Facility</b>       |     |         |       |
| D Palmer                             | 45  | 44      | 40    |
| H Tetlaw                             | 45  | 41      | 40    |
| GP Nixon & Sons, ML Gardner, GJ Keen | 44  | 40      | 40    |
| D Somerville                         | 43  | 43      | 40    |

Note: Noise generated by the project is to be measured and evaluated in accordance with the relevant requirements, and exemptions (including certain meteorological conditions), of the *Noise Policy for Industry* (NSW EPA, 2017), or its latest version.

## Cumulative Noise Criteria

4. The Proponent shall implement all reasonable and feasible measures to ensure that the noise generated by the project combined with the noise generated by other mines and industries does not exceed the amenity criteria in Table 4 at any residence on privately-owned land or on more than 25 per cent of any privately-owned land, to the satisfaction of the Secretary.

Table 4: Cumulative noise criteria dB(A)  $L_{Aeq}$  (period)

| Location                                                     | Day | Evening | Night |
|--------------------------------------------------------------|-----|---------|-------|
| <b>Mining Operations</b>                                     |     |         |       |
| All privately-owned land                                     | 50  | 45      | 40    |
| <b>CVO Dewatering Facility</b>                               |     |         |       |
| D Palmer                                                     | 55  | 45      | 40    |
| H Tetlaw, GP Nixon & Sons, ML Gardner, GJ Keen, D Somerville | 50  | 45      | 40    |

Note: Cumulative noise is to be measured in accordance with the relevant requirements, and exemptions (including certain meteorological conditions), of the *Noise Policy for Industry* (NSW EPA, 2017), or its latest version.

## Traffic Noise Impact Assessment Criteria

5. The Proponent shall take all reasonable and feasible measures to ensure that the traffic noise generated by the project does not exceed the traffic noise impact assessment criteria in Table 5.

Table 5: Traffic noise impact assessment criteria dB(A)

| Road                                                                         | Day/Evening             | Night                  |
|------------------------------------------------------------------------------|-------------------------|------------------------|
| Forest Road, Orange Road                                                     | 60 $L_{Aeq}$ (15 hours) | 55 $L_{Aeq}$ (9 hours) |
| Cadia Road, Orchard Road, Four Mile Creek Road, Woodville Road, Panuara Road | 55 $L_{Aeq}$ (1 hour)   | 50 $L_{Aeq}$ (1 hour)  |

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Note: Traffic noise generated by the project is to be measured in accordance with the relevant procedures in the EPA's Environmental Criteria for Road Traffic Noise.

## Operating Hours

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

Table 6: Operating Hours

| Activity                                                                                                                                              | Day                        | Time             |
|-------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|------------------|
| <b>Construction</b>                                                                                                                                   |                            |                  |
| Rodds Creek water holding dam raise; tailings storage facilities raises and embankment extensions; new pipelines; NaHS Solutioning Plant construction | Any day                    | Day              |
| Cadia East underground mine development; upgrade of ore processing facilities; NTSF repair works                                                      | Any day                    | Any time         |
| Dewatering facilities                                                                                                                                 | Monday – Friday            | 7.00am to 6.00pm |
|                                                                                                                                                       | Saturday                   | 8.00am to 1.00pm |
|                                                                                                                                                       | Sunday and Public Holidays | None             |
| <b>Operation</b>                                                                                                                                      |                            |                  |
| Mine complex operations; Dewatering facilities                                                                                                        | Any day                    | Any time         |
| Blayney Dewatering Facility – train loading                                                                                                           | Any day                    | 7.00am to 7.00pm |
| CVO Dewatering Facility – train loading                                                                                                               | Any day                    | Day              |

Note: Construction and maintenance activities may be conducted outside the hours in Table 6 provided that the activities are not audible at any residence beyond the boundary of the site.

## Additional Noise Mitigation Measures

7. Upon receiving a written request from:
- the landowner of the properties identified as:
    - MC & PA Ewens (unless the landowner has requested acquisition); or
    - GP Nixon & Sons; or
  - the landowner of privately-owned land where subsequent operational noise monitoring shows the noise generated by the project exceeds the noise limits in Table 2 by more than:
    - 1 dB(A), in the case of daytime noise levels at the location identified as ML Gardner; or
    - 2 dB(A), in the case of all other locations; or
  - the landowner of the residences on Forest Road, Orchard Road, Woodville Road or other road listed in Table 5 where subsequent noise monitoring shows traffic noise levels generated by the project exceed the traffic noise criteria in Table 5,
- the Proponent shall implement additional noise mitigation measures such as double glazing, insulation, and/or air conditioning at any residence on the land in consultation with the landowner.

These additional mitigation measures must be reasonable and feasible.

If within 3 months of receiving this request from the landowner, the Proponent and the landowner cannot agree on the measures to be implemented, or there is a dispute about the implementation of these measures, then either party may refer the matter to the [Secretary](#) for resolution.

Within 3 months of this approval, the Proponent shall notify all applicable landowners that they are entitled to receive additional noise mitigation measures, to the satisfaction of the [Secretary](#).

## Continuous Improvement

8. The Proponent shall:
- (a) implement all reasonable and feasible best practice noise mitigation measures;
  - (b) investigate ways to reduce the noise generated by the project, including off-site road (particularly on Forest Road, Orchard Road and Woodville Road during the night and early morning periods) and rail noise and maximum noise levels which may result in sleep disturbance; and

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- (c) report on these investigations and the implementation and effectiveness of these measures in the Annual Review, to the satisfaction of the [Secretary](#).

## Noise Management Plan

9. The Proponent must prepare a detailed Noise Management Plan for the project to the satisfaction of the Secretary. This plan must:
- be prepared in consultation with EPA, and be submitted to the Secretary for approval within 3 months of the date of this approval;
  - describe measures that would be implemented to ensure compliance with conditions 2-6 of this schedule, including a trigger action response plan based on noise complaints, real time and attended noise monitoring;
  - describe the measures to minimise road traffic noise generated by the project on public roads;
  - include a noise monitoring program that:
    - uses a combination of real-time and supplementary attended monitoring measures to evaluate the performance of the project;
    - adequately supports the proactive and reactive noise management system on site;
    - defines what constitutes a noise incident, and includes a protocol for identifying noise incidents and notifying the Department and relevant stakeholders of any such incident;
    - evaluates and reports on the effectiveness of the noise management system on site;
    - includes details of all feasible and reasonable noise mitigation and management measures to minimise noise from activities associated with the project's construction works; and
    - includes a program to calibrate and validate the real time noise monitoring results with the attended monitoring results over time (so the real time monitoring program can be used as a better indicator of compliance with the noise criteria in this approval and a trigger for further attended monitoring).

9A. The Proponent must implement the Noise Management Plan as approved by the Secretary.

## BLASTING AND VIBRATION

### Blasting Impact Assessment Criteria

10. The Proponent shall ensure that blasting at the project does not exceed the criteria in Table 7.

Table 7: Blasting impact assessment criteria

| Location                                                                                            | Time of Blasting                                  | Airblast overpressure (dB(Lin Peak)) | Ground vibration (mm/s) | Allowable exceedance                                        |
|-----------------------------------------------------------------------------------------------------|---------------------------------------------------|--------------------------------------|-------------------------|-------------------------------------------------------------|
| Residence on privately owned land                                                                   | Any time                                          | 120                                  | 10                      | 0%                                                          |
|                                                                                                     | Day                                               | 115                                  | 5                       | 5% of the total number of blasts over a period of 12 months |
|                                                                                                     | Evening                                           | 105                                  | 2                       |                                                             |
|                                                                                                     | Night, and all day on Sundays and Public holidays | 95                                   | 1                       |                                                             |
| Heritage sites, including Cadia Engine House and Surrounds (but excluding Little Cadia Copper Mine) | Any time                                          | -                                    | 15                      | 0%                                                          |

Note: The impact assessment criteria for Cadia Engine House and Surrounds apply in the absence of any anti-vibration strengthening. Alternative criteria may be approved under the Historical Heritage Management Plan (see condition 43) if anti-vibration strengthening works are implemented.

### Operating Conditions

11. During mining operations on site, the Proponent shall implement best blasting practice to:
- protect the safety of people, property, public infrastructure, and livestock;
  - protect items of Aboriginal and non-indigenous cultural heritage significance; and
  - minimise the dust and fume emissions from blasting at the project, to the satisfaction of the [Secretary](#).

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## Public Notice

12. During mining operations on site, the Proponent shall:
- notify the landowner/occupier of any residence within 2 kilometres of blasting operations who registers an interest in being notified about the blasting schedule at the mine, or any other landowner nominated by the [Secretary](#);
  - operate a Blasting Hotline, or alternate system agreed to by the [Secretary](#), to enable the public to get up-to-date information on the blasting schedule at the project;
  - publish an up-to-date blasting schedule on its website (for open pit and major underground blasting operations); and
  - advertise the blasting hotline number and website information in the mine's regular newsletter, to the satisfaction of the [Secretary](#).**

## Property Inspections

13. The Proponent shall advise the owners of privately-owned land that they are entitled to a structural property inspection to establish the baseline condition of buildings and other structures on the property:
- within 2 months of the date of this approval, for properties within 2 kilometres of blasting operations occurring at the date of this approval; and
  - at least 2 months prior to blasting within 2 kilometres of additional properties.
14. If the Proponent receives a written request for a structural property inspection from any such landowner, the Proponent shall:
- within 2 months of receiving this request commission a suitably qualified, experienced and independent person, whose appointment has been approved by the [Secretary](#), to inspect the condition of any building or structure on the land (prior to blasting taking place within 2 kilometres of the property, if possible), and recommend measures to mitigate any potential blasting impacts; and
  - give the landowner a copy of the property inspection report.

## Property Investigations

15. If any landowner of privately-owned land within 2 kilometres of blasting operations, or any other landowner nominated by the [Secretary](#), claims that buildings and/or structures on his/her land have been damaged as a result of blasting at the project, the Proponent shall within 3 months of receiving this request:
- commission a suitably qualified, experienced and independent person, whose appointment has been approved by the [Secretary](#), to investigate the claim; and
  - give the landowner a copy of the property investigation report.

If this independent property investigation confirms the landowner's claim, and both parties agree with these findings, then the Proponent shall repair the damages to the satisfaction of the [Secretary](#).

If the Proponent or landowner disagrees with the findings of the independent property investigation, then either party may refer the matter to the [Secretary](#) for resolution.

If the matter cannot be resolved within 21 days, the [Secretary](#) shall refer the matter to an Independent Dispute Resolution Process (see Appendix 8).

## Blast Monitoring Program

16. The Proponent shall prepare and implement a Blast Monitoring Program for the project to the satisfaction of the [Secretary](#). This program must:
- be prepared in consultation with EPA, and be submitted to the [Secretary](#) for approval within 3 months of the date of this approval; and
  - include a protocol for evaluating blast-related impacts (including blast-induced seismic activity) on, and demonstrating compliance with the blasting criteria in this approval for:
    - privately-owned residences and structures;
    - items of Aboriginal and non-indigenous cultural heritage significance (including the Cadia Engine House and Surrounds); and
    - publicly-owned infrastructure.

## AIR QUALITY

### Impact Assessment Criteria

17. **Except for the land in Table 1, the Proponent shall ensure that all reasonable and feasible avoidance and mitigation measures are employed so that particulate matter emissions generated by the project do not cause exceedances of the criteria listed in Tables 8, 9 and 10 at any residence on privately owned land, or on more than 25% of any privately-owned land.**

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Table 8: Long term impact assessment criteria for particulate matter

| Pollutant                                        | Averaging period | <sup>d</sup> Criterion            |
|--------------------------------------------------|------------------|-----------------------------------|
| Total suspended particulate (TSP) matter         | Annual           | <sup>a</sup> 90 µg/m <sup>3</sup> |
| Particulate matter < 10 µm (PM <sub>10</sub> )   | Annual           | <sup>a</sup> 25 µg/m <sup>3</sup> |
| Particulate matter < 2.5 µm (PM <sub>2.5</sub> ) | Annual           | <sup>a</sup> 8 µg/m <sup>3</sup>  |

Table 9: Short term impact assessment criterion for particulate matter

| Pollutant                                        | Averaging period | <sup>d</sup> Criterion            |
|--------------------------------------------------|------------------|-----------------------------------|
| Particulate matter < 10 µm (PM <sub>10</sub> )   | 24 hour          | <sup>b</sup> 50 µg/m <sup>3</sup> |
| Particulate matter < 2.5 µm (PM <sub>2.5</sub> ) | 24 hour          | <sup>b</sup> 25 µg/m <sup>3</sup> |

Table 10: Long term impact assessment criteria for deposited dust

| Pollutant                   | Averaging period | Maximum increase in deposited dust level | Maximum total deposited dust level     |
|-----------------------------|------------------|------------------------------------------|----------------------------------------|
| <sup>c</sup> Deposited dust | Annual           | <sup>b</sup> 2 g/m <sup>2</sup> /month   | <sup>a</sup> 4 g/m <sup>2</sup> /month |

Notes to Tables 8-10:

<sup>a</sup> Cumulative impact (i.e. increase in concentrations due to the project plus background concentrations due to all other sources);

<sup>b</sup> Incremental impact (i.e. increase in concentrations due to the project on its own), with up to five allowable exceedances of the criteria over the life of the project;

<sup>c</sup> Deposited dust is to be assessed as insoluble solids as defined by Standards Australia, AS/NZS 3580.10.1:2003: Methods for Sampling and Analysis of Ambient Air - Determination of Particulate Matter - Deposited Matter - Gravimetric Method; and

<sup>d</sup> Excludes extraordinary events such as bushfires, prescribed burning, dust storms, sea fog, fire incidents or any other activity agreed by the Secretary.

## Land Acquisition Criteria

18. If particulate matter emissions generated by the project exceed the criteria, or contribute to exceedances of the relevant cumulative criteria, in Tables 11, 12 and 13 at any residence on privately-owned land then upon receiving a written request for acquisition from the landowner, the Proponent shall acquire the land in accordance with the procedures in conditions 5 and 6 of schedule 4.

Table 11: Long term land acquisition criteria for particulate matter

| Pollutant                                        | Averaging period | <sup>d</sup> Criterion            |
|--------------------------------------------------|------------------|-----------------------------------|
| Total suspended particulate (TSP) matter         | Annual           | <sup>a</sup> 90 µg/m <sup>3</sup> |
| Particulate matter < 10 µm (PM <sub>10</sub> )   | Annual           | <sup>a</sup> 25 µg/m <sup>3</sup> |
| Particulate matter < 2.5 µm (PM <sub>2.5</sub> ) | Annual           | <sup>a</sup> 8 µg/m <sup>3</sup>  |

Table 12: Short term land acquisition criteria for particulate matter

| Pollutant                                        | Averaging period | <sup>d</sup> Criterion            |
|--------------------------------------------------|------------------|-----------------------------------|
| Particulate matter < 10 µm (PM <sub>10</sub> )   | 24 hour          | <sup>b</sup> 50 µg/m <sup>3</sup> |
| Particulate matter < 2.5 µm (PM <sub>2.5</sub> ) | 24 hour          | <sup>b</sup> 25 µg/m <sup>3</sup> |

Table 13: Long term land acquisition criteria for deposited dust

| Pollutant                   | Averaging period | Maximum increase in deposited dust level | Maximum total deposited dust level     |
|-----------------------------|------------------|------------------------------------------|----------------------------------------|
| <sup>c</sup> Deposited dust | Annual           | <sup>b</sup> 2 g/m <sup>2</sup> /month   | <sup>a</sup> 4 g/m <sup>2</sup> /month |

Notes to Tables 11-13:

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- <sup>a</sup> Cumulative impact (i.e. increase in concentrations due to the project plus background concentrations due to all other sources);
- <sup>b</sup> Incremental impact (i.e. increase in concentrations due to the project on its own) with up to five allowable exceedances of the criteria over the life of the project;
- <sup>c</sup> Deposited dust is to be assessed as insoluble solids as defined by Standards Australia, AS/NZS 3580.10.1:2003: *Methods for Sampling and Analysis of Ambient Air - Determination of Particulate Matter - Deposited Matter - Gravimetric Method*; and
- <sup>d</sup> Excludes extraordinary events such as bushfires, prescribed burning, dust storms, sea fog, fire incidents, illegal activities or any other activity agreed to by the Secretary.

## Operating Conditions

19. The Proponent shall:
- ensure any visible air pollution generated by the project is assessed regularly, and that operations are relocated, modified, and/or stopped as far as is reasonable and feasible to minimise air quality impacts on privately-owned land;
  - ensure that the real-time air quality monitoring and meteorological monitoring data are assessed regularly, and that operations are relocated, modified and/or stopped as required to ensure compliance with the relevant air quality criteria;
  - implement all reasonable and feasible measures to minimise off-site odour and fume emissions generated by the project; and
  - implement reasonable and feasible best practice diesel emissions reduction technology for any new equipment, including 'non-road' diesel equipment used in undertaking the project.
- to the satisfaction of the Secretary.
- 19A. The Proponent must prepare an Air Quality Impact Validation Report to the satisfaction of the Secretary based on detailed construction methodology and equipment for the construction of the NTSF and STSF embankments and associated infrastructure including haulage roads and transfer of waste rock material. The Air Quality Impact Validation Report must be prepared by a suitably qualified and experienced person, whose appointment has been approved by the Secretary and be submitted to the Secretary within 3 months of approval of Modification 14.

## NaHS Solutioning Plant Construction and Operation

- 19B. Prior to construction of the NaHS Solutioning Plant, the Proponent must develop and implement an ongoing hydrogen sulphide emission monitoring program for the project, to the satisfaction of the EPA.
- 19C. Unless otherwise agreed by the EPA, the NaHS Solutioning Plant must:
- not produce more than 43 tonnes of NaHS solution (35%) per day; and
  - be fitted with a sodium hydroxide scrubber which must be designed to achieve;
    - a hydrogen sulphide emission concentration of 5 mg/m<sup>3</sup>, and
    - a final output emission rate of hydrogen sulphide less than 1.67 grams per second (g/s).

## NaHS Solutioning Plant Emission Performance and Verification

- 19D. Prior to construction of the sodium hydroxide scrubber, the Proponent must provide an emission performance guarantee (or similar) to the EPA, to confirm the expected emission performance of the scrubber and demonstrate the designed performance of the scrubber is consistent with best practice.
- 19E. The exhaust stack of the pollution control system must be designed to allow for periodic emission testing to occur, and have consideration for the requirements outlined in *Australian Standard AS4323.1 Stationary source emissions - Selection of sampling positions* (1995) and *USEPA's Guideline for the Determination of Good Engineering Stack Height* (1981).
- 19F. The Proponent must undertake emission verification testing, generally in accordance with the procedures outlined in the EPA's submission to the Department (dated 24 May 2021, Appendix A of the Department's assessment report on Modification 14), and in accordance with emissions criteria set in the project's EPL, to confirm the emission performance of the sodium hydroxide scrubber system.

## Air Quality and Greenhouse Gas Management Plan

20. The Proponent must prepare an Air Quality and Greenhouse Gas Management Plan for the project to the satisfaction of the Secretary. This plan must:
- be prepared by a suitably qualified and experienced person and in consultation with EPA and the CCC, and be submitted to the Secretary within 3 months of approval of Modification 14, unless otherwise agreed by the Secretary;
  - describe proactive and reactive measures of all significant, and potentially significant emissions sources and construction activities, that would be implemented to ensure compliance with conditions 17-19C of this schedule;
  - include key performance indicators;
  - include a program for the implementation of the measures referred to in (b) above;



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- (e) include an air quality monitoring program that:
  - uses a combination of real-time monitoring measures, high volume samplers and dust deposition gauges to monitor and evaluate the dust emissions of the project;
  - describes the proposed installation, ongoing operation and maintenance of a suitable number of real-time particle monitoring sites around the NTSF and STSF to allow responsive dust management;
  - includes a suitable air quality monitoring program for the project's ventilation shafts discharge points, including PM<sub>10</sub> and PM<sub>2.5</sub> emissions and ventilation flow rates;
  - includes the ongoing operation and maintenance of a meteorological weather station;
  - includes a protocol for determining exceedances of the relevant conditions of this approval; and
- (f) establish a trigger response/reactive management protocol (Trigger Action Response Plan) to be used in combination with the particle monitoring sites and meteorological weather station;
- (g) include the location, frequency and duration of monitoring, record keeping, system and performance review for continuous improvement and compliance reporting;
- (h) include procedures for the reasonable use of interim stabilisation and temporary vegetation strategies to minimise the area exposed for dust generation; and
- (i) describe the measures that would be implemented to minimise the release of greenhouse gas emissions from the site.

20A. The Proponent must implement the Air Quality and Greenhouse Gas Management Plan as approved by the Secretary.

## METEOROLOGICAL MONITORING

21. During the life of the project, the Proponent shall ensure that there is a suitable meteorological station in the vicinity of the site that complies with the requirements in the *Approved Methods for Sampling of Air Pollutants in New South Wales* guideline.

## SOIL AND WATER

### Water Supply

22. The Proponent must:
- (a) ensure that it has sufficient water for all stages of the project;
  - (b) implement efficiency and best practice measures to minimise and conserve the use of water; and
  - (c) adjust the scale of the operations to match its available water supply.

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

### Discharge Limits

23. The Proponent shall not discharge any water from the site except as may be expressly provided by an EPL, or in accordance with section 120 of the *Protection of the Environment Operations Act 1997*.

### Compensatory Water Supplies

24. The Proponent shall provide compensatory water supplies to any landowner of privately-owned land whose water entitlements are impacted (other than an impact that is negligible) as a result of the project, in consultation with [DPIE Water](#) and to the satisfaction of the [Secretary](#).

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

If the Proponent and the landowner cannot agree on the measures to be implemented, or there is a dispute about the implementation of these measures, then either party may refer the matter to the [Secretary](#) for resolution.

If the Proponent is not able to provide an alternative long-term supply of water, the Proponent shall provide alternative compensation to the satisfaction of the [Secretary](#), which may involve acquisition in accordance with the procedures in conditions 5-7 of schedule 4.

#### Notes:

- *For the purposes of this condition:*
  - *privately-owned land means any privately-owned land with direct water dependency on Swallow Creek, Cadiangullong Creek, Rodds Creek, Flyers Creek or Diggers Creek/Panuara Rivulet, and any land within the maximum predicted 1 metre groundwater drawdown contour as indicated on the plans in Appendix 5, or any other privately-owned land as notified by the [Secretary](#);*
  - *a water entitlement includes an accessible riparian water right or licensable quantity;*
  - *a water entitlement is considered to be impacted if the project results in a loss in pumping yield in bores or pumps, or impacts the quality of the water such that its use is materially affected. (These impact*



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assessment criteria are required to be further quantified in the Site Water Management Plan – see conditions 30-35 below).

- Compensatory water supplies may be achieved through provision of baseflow offsets within the applicable catchment (see condition 25 below), or through measures on privately-owned land such as lowering or duplicating pumps, deepening or replacing bores, and/or provision of interim water supplies.
- The Proponent is not required to provide additional compensatory water supplies where such long-term compensation has already been provided under previous consents for the project.
- In resolving any dispute under this condition, the [Secretary](#) will consult closely with [DPIE Water](#).

## Baseflow Offsets

25. The Proponent shall offset the loss of baseflow to the Belubula River and associated creeks caused by the project, in consultation with [DPIE Water](#), and to the satisfaction of the [Secretary](#). The offsets shall be provided either incrementally or on one occasion:
- (a) prior to the baseflow loss being realised, or within 12 months of the date of this approval for any existing realised baseflow losses that have not previously been offset; and
  - (b) within the catchments where the baseflow loss is realised, as far as is reasonable and feasible, unless otherwise approved by the [Secretary](#).

Notes:

- The offsets should be provided via the retirement of adequate water entitlements to account for the loss attributable to the project.
- Relevant compensatory water supplies implemented under condition 24 may be subtracted from the offsets required under this condition.
- The Proponent is not required to provide additional baseflow offsets where such offsets have already been provided under previous consents for the project. These existing offsets are to be described and evaluated in the Surface and Ground Water Contingency Plan (see condition 35 below).

26. At least 6 months prior to the cessation of mining operations, the Proponent shall demonstrate that it has made adequate provision to provide long-term offsets to account for the permanent baseflow loss caused by the project, in consultation with [DPIE Water](#), and to the satisfaction of the [Secretary](#).

Note: The long-term offsets may be provided via the retiring of adequate water entitlements to account for the permanent loss attributable to the project.

## Cadiangullong Creek Flows

27. The Proponent shall manage water releases from Cadiangullong Dam to provide:
- (a) flows of at least:
    - 3.4 ML/day, for periods when inflows into the dam are more than 3.4 ML/day and the water level in the dam is at or above the lowest valve level on the multi-level offtake (ie. 773.0 metres AHD);
    - the volume equal to the inflow into the dam, for periods when inflows into the dam are between 0.4 and 3.4 ML/day and the water level in the dam is at or above the lowest valve level on the multi-level offtake;
    - 0.4 ML/day, for periods when inflows into the dam are less than 0.4 ML/day and the water level in the dam is at or above the lowest valve level on the multi-level offtake;
    - the volume equal to the inflow into the dam, up to 0.4ML/day, for periods when the water level in the dam is below the lowest valve level on the multi-level offtake and above the level of the scour valve (ie. 762.8 metres AHD); and
    - zero, when the water level in the dam is below the level of the scour valve; and
  - (b) releases of up to 4 medium flows (of the order of 12 to 15 ML/day) per year, each for a duration of 1 to 3 days, with timing and frequency of such flows determined by hydrographs of typical medium flows, to the satisfaction of, and unless otherwise approved by, [DPIE Water](#).

28. The Proponent shall not extract any water from Cadiangullong Dam when the volume in the dam drops to 10 percent or less of its total capacity (i.e. 778.8 metres AHD), unless otherwise approved by [DPIE Water](#). Flow releases (see condition 27 above) shall be continued during any such period, except when the level of water in the dam drops below the level of the dam's scour valve (i.e. 762.8 metres AHD).

## Flyers Creek Flows

29. The Proponent shall ensure that natural environmental flows of up to 3.5 ML/day into Flyers Creek weir are allowed to pass uninterrupted downstream, and any approved water extraction is limited to medium and high flows, to the satisfaction of [DPIE Water](#).

## Site Water Management Plan

30. The Proponent shall prepare a Water Management Plan for the project to the satisfaction of the [Secretary](#). This plan must:
- (a) be prepared in consultation with [DPIE Water](#) and [EPA](#), and be submitted to the [Secretary](#) for approval within 6 months of the date of this approval;

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- (b) include a:
- Site Water Balance;
  - Erosion and Sediment Control Plan;
  - Surface Water Monitoring Program;
  - Groundwater Monitoring Program;
  - Surface and Ground Water Contingency Plan; and
- (c) include measures to accurately meter and monitor water take from surface and groundwater sources, or present the nominated strategy, that permits ongoing review of actual versus modelled predictions of take where relevant.
31. The Site Water Balance must:
- (a) include details of:
- sources and security of water supply;
  - water use on site;
  - water management on site;
  - any off-site water transfers;
  - reporting procedures; and
- (b) investigate and implement all reasonable and feasible measures to minimise water use by the project.
32. The Erosion and Sediment Control Plan must:
- (a) be consistent with the requirements of *Managing Urban Stormwater: Soils and Construction, Volume 1, 4<sup>th</sup> Edition, 2004* (Landcom);
- (b) identify activities that could cause soil erosion and generate sediment;
- (c) describe measures to minimise soil erosion and the potential for the transport of sediment to downstream waters;
- (d) describe the location, function, and capacity of erosion and sediment control structures; and
- (e) describe what measures would be implemented to maintain the structures over time.
33. The Surface Water Monitoring Program must include:
- (a) detailed baseline data, based on sound statistical analysis, to benchmark the pre-mining natural variation in surface water flows and quality in creeks and other waterbodies that could potentially be affected by the project, including monitoring upstream and downstream where the Cadiangullong Creek discharges into the Belubula River;
- (b) surface water and stream health impact assessment criteria;
- (c) a program to monitor and assess:
- impacts on surface water flows and quality;
  - impacts on water users;
  - stream health conditions in Swallow Creek, Cadiangullong Creek, Rodds Creek, Flyers Creek and Diggers Creek, including riparian vegetation;
  - potential acid rock drainage;
  - potential leakage or spillage from tailings, mineral concentrate and effluent pipelines;
- (d) a program for the ongoing verification and refinement of the surface water model; and
- (e) reporting procedures for the results of the monitoring program and model verification.
34. The Groundwater Monitoring Program must include:
- (a) detailed baseline data, based on sound statistical analysis, to benchmark the pre-mining natural variation in groundwater levels, yield and quality (including privately-owned bores within the maximum predicted 1 metre groundwater drawdown contour, as indicated on the plans in Appendix 5);
- (b) groundwater impact assessment criteria (including for monitoring bores and privately-owned bores);
- (c) a program to monitor:
- impacts on the groundwater supply of potentially affected landowners;
  - impacts on springs and groundwater dependent ecosystems;
  - the volume of groundwater seeping into open pit and underground mine workings;
  - regional groundwater levels and quality in all potentially affected aquifers;
  - potential acid rock drainage;
  - the hydraulic gradient and groundwater quality around the base of the Cadia Hill pit;
- (d) a program for the ongoing verification and refinement of the groundwater model; and
- (e) reporting procedures for the results of the monitoring program and model verification.
35. The Surface and Ground Water Contingency Plan must include:
- (a) a protocol for the investigation, notification and mitigation of any exceedances of the surface water, stream health and groundwater impact assessment criteria;
- (b) a procedure for investigating monitoring and minimising leakage from the Cadia Hill open cut pit towards Cadiangullong creek;
- (c) measures to mitigate and/or compensate potentially affected landowners in accordance with the compensatory water supply requirements in condition 24 above;

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- (d) a protocol for providing advance warning and water supply measures for landowners of privately-owned land that are predicted to exceed the surface or ground water impact assessment criteria at some stage during the project life;
- (e) a protocol for investigating, evaluating and providing the baseflow offsets required under condition 25 above, including a detailed evaluation (in the initial plan) of offsets provided under previous consents for the project;
- (f) the procedures that would be followed if any significant unforeseen impacts on surface or ground water are detected during the project.

35A. The Proponent must implement the Water Management Plan as approved by the Secretary.

## Mine Water Management Performance Measures

- 35B. The Proponent must comply with the following mine water management performance measures to the satisfaction of the Secretary, including:
- (a) ensure that the capacity of the NTSF and STSF, and any relocated or newly constructed dams which receive runoff or seepage from the tailings storage facilities are designed to meet the requirements of the Australian National Committee on Large Dams' *Guidelines on Tailings Dams – Planning Design and Construction, Operation and Closure* (July 2019) or its latest version, and that the core embankment and foundations achieves a permeability standard of at least  $1 \times 10^{-9}$  m/s and 1 metre depth (or equivalent permeability performance), unless otherwise agreed by the EPA and the Secretary;
  - (b) ensure any dams constructed on minor streams to manage dirty/contaminated runoff are designed in accordance with relevant industry standards and must be solely used for the purpose of managing runoff to prevent contamination;
  - (c) seepage dams must be constructed to retain tailings storage facility seepage to comply with nil off-site discharge and in accordance with Section 120 of the POEO Act;
  - (d) the design, construction and maintenance of tailings storage facilities (including seepage storages) and wastewater storage must maintain a minimum freeboard to accommodate a 1 in 100 year Australian Recurrence Interval (ARI), 72 hour rainfall event without discharge; and
  - (e) surface runoff into sediment dams must maintain a minimum freeboard to accommodate a 1 in 20 year ARI, 72 hour rainfall event without discharge.
- 35C. The Proponent must notify Dams Safety NSW of its intention make any changes to declared dams, before any significant change is made to the configuration of the dam that may affect the safety of the dam.
- 35D. Works within waterfront land must be carried out to meet the requirements of the *Guidelines for Controlled Activities on Waterfront Land* (NRAR 2018).

## REHABILITATION AND BIODIVERSITY OFFSETS

### Rehabilitation

36. By the end of 2010, the Proponent shall prepare a Rehabilitation Strategy for the project to the satisfaction of the Secretary. This strategy must:
- (a) be prepared by a team of suitably qualified and experienced experts whose appointment has been endorsed by the Secretary;
  - (b) be prepared in consultation with relevant stakeholders, including the RR, MEG, BCS, DPIE Water, Councils and the CCC;
  - (c) investigate options for the future use of disturbed areas including voids upon the completion of mining;
  - (d) describe and justify the proposed rehabilitation strategy for the site, including the post-mining landform and use;
  - (e) define the rehabilitation objectives for the site, as well as the proposed completion criteria for this rehabilitation;
  - (f) include a conceptual final landform and rehabilitation plan;
  - (g) include a life of mine rehabilitation and mining schedule which outlines key progressive rehabilitation milestones from the commencement of operations through to decommissioning and mine closure; and
  - (h) managing and minimising any adverse socio-economic effects associated with mine closure.

Note: The strategy should build on the concept strategy depicted in Appendix 6.

37. The Proponent shall:
- (a) carry out rehabilitation progressively, that is, as soon as reasonably practicable following disturbance; and
  - (b) achieve the rehabilitation objectives in the Rehabilitation Strategy (see condition 36), to the satisfaction of the RR.

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## Biodiversity Offsets

38. The Proponent shall:
- implement the biodiversity offset strategy as described in the EA, and summarised in Table 14 (and shown conceptually in Appendix 6); and
  - investigate ways to salvage and beneficially use resources (including timber, fauna habitat, seed and soil resources) in areas subject to subsidence as far as is reasonable and feasible, in consultation with the BCS, to the satisfaction of the Secretary.

Table 14: Biodiversity Offset Strategy

| Area                                             | Minimum Size* |
|--------------------------------------------------|---------------|
| Black Rock Range Offset Area – Enhancement Area  | 647 ha        |
| Black Rock Range Offset Area – Revegetation Area | 162 ha        |
| Flyers Creek and Belubula River Offset Area      | 97 ha         |
| Stratton Vale Offset Area                        | 60 ha         |
| <b>Total</b>                                     | <b>966 ha</b> |

\*Subject to final survey constraints

39. Within 2 years of the date of this approval, the Proponent shall make suitable arrangements to provide appropriate long term security for the offset areas to the satisfaction of the Secretary.
40. Within 6 months of the approval of the Biodiversity Management Plan (see condition 41 below), the Proponent shall lodge a conservation and biodiversity bond with the Department to ensure that the offset strategy is implemented in accordance with the performance and completion criteria of the Biodiversity Management Plan. The sum of the bond shall be determined by:
- calculating the full cost of implementing the offset strategy; and
  - employing a suitably qualified quantity surveyor to verify the calculated costs, to the satisfaction of the Secretary.

### Notes:

- If the offset strategy is completed to the satisfaction of the Secretary, the Secretary will release the conservation bond.
- If the offset strategy is not completed to the satisfaction of the Secretary, the Secretary will call in all or part of the conservation bond, and arrange for the satisfactory completion of the relevant works.

## Retirement of Credits

- 40A. Within two years of commencing construction of the MOD 13 Southern Tailings Storage Facility buttressing, unless the Secretary agrees otherwise, the Proponent must retire biodiversity credits of a number and class identified in Tables 14.1 and 14.2 below. The retirement of credits must be carried out in accordance with the Biodiversity Offsets Scheme of the Biodiversity Conservation Act 2016, to the satisfaction of the Biodiversity Conservation Trust.

Table 14.1: Ecosystem Credit Requirements

| Ecosystem Credits                                                                                           | Disturbance Area (hectares) | Credits Required |
|-------------------------------------------------------------------------------------------------------------|-----------------------------|------------------|
| PCT266 - White Box grassy woodland in the upper slopes sub-region of the NSW South Western Slopes Bioregion | 0.31                        | 8                |

Table 14.2: Species Credit Requirements

| Threatened Species                                        | Disturbance Area (hectares) | Credits Required |
|-----------------------------------------------------------|-----------------------------|------------------|
| Squirrel Glider - <i>Petaurus norfolcensis</i>            | 0.31                        | 8                |
| Small Purple-pea - <i>Swainsona recta</i>                 | 0.31                        | 8                |
| Silky Swainson-pea - <i>Swainsona sericea</i>             | 0.31                        | 8                |
| Pink-tailed Legless Lizard - <i>Aprasia parapulchella</i> | 0.31                        | 8                |
| Little Eagle - <i>Hieraaetus morphnoides</i>              | 0.31                        | 6                |
| Superb Parrot - <i>Polytelis swainsonii</i>               | 0.31                        | 8                |
| <b>Total Credits</b>                                      | <b>0.31</b>                 | <b>46</b>        |

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- 40B. Within six months of commencing construction of the Modification 14 works, unless the Secretary agrees otherwise, the Proponent must retire biodiversity credits of a number and class identified in Tables 14.3 and 14.4 below. The retirement of credits must be carried out in accordance with the Biodiversity Offsets Scheme of the *Biodiversity Conservation Act 2016*.

Table 14.3: Ecosystem Credit Requirements

| Ecosystem Credits                                                                                           | Disturbance Area (hectares) | Credits Required |
|-------------------------------------------------------------------------------------------------------------|-----------------------------|------------------|
| PCT266 - White Box grassy woodland in the upper slopes sub-region of the NSW South Western Slopes Bioregion | 13.1                        | 358              |
| PCT277 – White Box Yellow Box Blakey’s Red Gum Grassy Woodland and Derived Native Grassland                 | 15.8                        | 197              |
| <b>Total Credits</b>                                                                                        |                             | <b>555</b>       |

Table 14.4: Species Credit Requirements

| Threatened Species                                        | Disturbance Area (hectares) | Credits Required |
|-----------------------------------------------------------|-----------------------------|------------------|
| Squirrel Glider - <i>Petaurus norfolcensis</i>            | 18.7                        | 361              |
| Striped Legless Lizard                                    | 26.8                        | 354              |
| Pink-tailed Legless Lizard - <i>Aprasia parapulchella</i> | 17.9                        | 328              |
| Superb Parrot - <i>Polytelis swainsonii</i>               | 25.3                        | 445              |
| <b>Total Credits</b>                                      |                             | <b>1488</b>      |

## Biodiversity Management Plan

41. Prior to any vegetation clearing impacting biodiversity values, as identified in the Biodiversity Development Assessment Report for Modification 14, unless otherwise agreed by the Secretary, the Proponent must prepare a Biodiversity Management Plan for the project to the satisfaction of the Secretary. This plan must:
- (a) be prepared in consultation with BCS;
  - (b) include:
    - (i) the rehabilitation objectives for the offset areas;
    - (ii) a description of the short, medium, and long term measures that would be implemented to implement the offset strategy and manage the remnant vegetation and habitat on the site and in the offset areas;
    - (iii) detailed performance and completion criteria for the implementation of the offset strategy;
    - (iv) a detailed description of the measures that would be implemented, including the procedures to be implemented for:
      - managing and mitigating impacts on biodiversity values, particularly for the Superb Parrot and Squirrel Glider;
      - implementing revegetation and regeneration within offset areas, including establishment of canopy, sub-canopy (if relevant), understorey and ground strata;
      - collecting and propagating seed for rehabilitation works;
      - salvaging and placement of habitat features;
      - controlling weeds and feral pests, including terrestrial and aquatic species;
      - managing grazing and agriculture on site;
      - controlling access;
      - bushfire management;
    - (v) a program to monitor the effectiveness of these measures, and progress against the performance and completion criteria;
    - (vi) a description of the potential risks to successful revegetation, and a description of the contingency measures that would be implemented to mitigate these risks;
    - (vii) details of who would be responsible for monitoring, reviewing, and implementing the plan; and
    - (viii) a Threatened Species Management Protocol, which outlines management strategies to protect any threatened flora and fauna species during construction, operation and post-mining.

- 41A. The Proponent must implement the approved Biodiversity Management Plan.



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## Rehabilitation Management Plan

- 41B. The Proponent must prepare and implement a Rehabilitation Management Plan in accordance with the conditions imposed on the mining lease(s) associated with the project under the *Mining Act 1992*. The plan must:
- (a) be prepared in accordance with the relevant requirements specified under the *Mining Act 1992*;
  - (b) include a detailed plan for the reinstatement and review of the proposed:
    - ecological rehabilitation and native woodland areas, including a protocol for progressive reviews to demonstrate that the target vegetation communities are being achieved; and
    - agricultural land rehabilitation;
  - (c) include Rehabilitation Objectives, Rehabilitation Completion Criteria and a Final Landform and Rehabilitation Plan;
  - (d) include an overview of the identified risks to achieving successful rehabilitation and the type of rehabilitation strategies to be implemented to address the identified risks, including:
    - investigating ways to salvage and beneficially use resources in areas subject to subsidence (including timber, fauna habitat, seed and soil resources);
    - protecting vegetation and soil outside the disturbance areas;
    - rehabilitating creeks and drainage lines on the site (both inside and outside the disturbance areas);
    - managing potential acid forming material (including ensuring effective isolation of potential acid forming material in rock dumps);
    - managing salinity;
    - conserving and reusing topsoil;
    - undertaking pre-clearance surveys;
    - landscaping the site to minimise visual impacts;
    - salvaging and reusing material from the site for habitat enhancement;
    - controlling weeds and feral pests, including terrestrial and aquatic species;
    - managing grazing and agriculture on site;
    - controlling access;
    - bushfire management;
    - managing and minimising any potential adverse impacts associated with the final voids;
    - managing impacts on terrestrial and aquatic fauna (including a Squirrel Glider conservation strategy);
  - (e) describe the measures to be implemented on the site to achieve the Rehabilitation Objectives identified in the Rehabilitation Strategy required under condition 36;
  - (f) include a program to monitor, audit and report on the progress against the Rehabilitation Objectives and Rehabilitation Completion Criteria and the Final Landform and Rehabilitation Plan;
  - (g) describe further studies, work, research or consultation that will be undertaken to expand the site-specific rehabilitation knowledge base, reduce uncertainty and improve rehabilitation outcomes; and
  - (h) outline intervention and adaptive management techniques to ensure rehabilitation remains on a trajectory of achieving the Rehabilitation Objectives, Rehabilitation Completion Criteria and the Final Landform and Rehabilitation Plan as soon as reasonably practical.

## ABORIGINAL HERITAGE

### Aboriginal Cultural Heritage Management Plan

42. The Proponent shall prepare and implement an Aboriginal Cultural Heritage Management Plan for the project to the satisfaction of the [Secretary](#). This plan must:
- (a) be prepared in consultation with [Heritage NSW](#) and the Aboriginal community, and be submitted to the [Secretary](#) for approval within 6 months of the date of this approval;
  - (b) include a:
    - detailed salvage program and management plan for Aboriginal sites and potential archaeological deposits within the project disturbance area;
    - detailed description of the measures that would be implemented to protect and monitor Aboriginal sites outside the project disturbance area, including the known potential archaeological deposit site (PAD AHIMS 44-5-0133);
    - description of the measures that would be implemented if any new Aboriginal objects or skeletal remains are discovered during the project; and
    - protocol for the ongoing consultation and involvement of the Aboriginal communities in the conservation and management of Aboriginal cultural heritage on the site.

## HISTORICAL HERITAGE

### Historical Heritage Management Plan

43. The Proponent shall prepare and implement a Historical Heritage Management Plan for the project to the satisfaction of the [Secretary](#). This plan must:

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- (a) be prepared in consultation with the [Heritage NSW](#) and be submitted to the [Secretary](#) for approval within 6 months of the date of this approval;
- (b) include:
  - compilation of archival recording, excavation and/or salvage of heritage items within the project disturbance area, including the [Te Anau Homestead](#), Wire Gully Gold Workings and the Little Cadia Copper Mine;
  - a detailed conservation management strategy for heritage items outside the project disturbance area but within the vicinity of the site, including a:
    - description of the measures that would be implemented to protect heritage items from disturbance, including disturbance from blasting activities;
    - program to monitor the effects of blasting on relevant heritage items; and
    - an Interpretation Plan for the Cadia Village.

*Note: The Little Cadia Copper Mine is outside the zone of subsidence for the Cadia East mine but within its zone of influence, and therefore may potentially be subject to impact. It is proposed to conserve the site in-situ, if possible.*

## TRANSPORT

### Road Construction

44. The Proponent shall:
  - (a) realign the affected sections of Cadia Road, and reconstruct the Cadia Road / Woodville Road intersection, at least 6 months before causing any subsidence of the affected roads; and
  - (b) construct the CVO Dewatering Facility site intersection on Newbridge Road, prior to the commencement of construction of the facility, to the satisfaction of the applicable Council.

### Road Haulage

45. The Proponent shall transport all concentrate:
  - (a) to the Blayney Dewatering Facility and CVO Dewatering Facility by pipeline; and
  - (b) from the Blayney Dewatering Facility and CVO Dewatering Facility by rail.

If during the life of the project pipeline or rail services are not available to transport the concentrate the Proponent may apply to the [Secretary](#) for permission to temporarily use truck facilities until such time as pipeline or rail services are returned to normal service.

46. The Proponent shall ensure that all traffic accessing the Blayney Dewatering Facility does so via Marshalls Lane and Gerty Street. Hill Street shall not be used except with the written permission of Blayney Shire Council.

### Traffic Management Plan

- 46A. The Proponent must prepare a Traffic Management Plan for the project to the satisfaction of the [Secretary](#). This plan must:
  - (a) be prepared by a suitably qualified and experienced person and in consultation with Councils and TfNSW and be submitted to the [Secretary](#) for approval within 3 months of the date of approval of Modification 14, unless otherwise agreed by the [Secretary](#);
  - (b) include details of the transport routes to be used for project-related traffic;
  - (c) describe measures to be implemented to minimise traffic and transport impacts to the public road network, including traffic safety issues and disruption to local users of the transport route/s during construction, operations or decommissioning works;
  - (d) include a program to record and track vehicle movements and monitor the effectiveness of these measures; and include a Driver's Code of Conduct that includes:
    - adhering to posted speed limits or other required travelling speeds;
    - adhering to the designated transport routes; and
    - implement safe driving practices.

- 46B. The Proponent must implement the Traffic Management Plan as approved by the [Secretary](#).

## VISUAL

### CVO Dewatering Facility

47. Prior to the commencement of construction of the CVO Dewatering Facility, the Proponent shall prepare:
  - (a) architectural plans for the facility in a manner that achieves a suitable standard of design; and
  - (b) a Landscape Plan for the facility, including provision for vegetative screening to minimise the visual impacts on adjacent receivers,in consultation with Blayney Shire Council, and to the satisfaction of the [Secretary](#).

Following approval, these plans must be implemented to the satisfaction of the [Secretary](#).



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## Mining Operations Additional Visual Impact Mitigation

48. Upon receiving a written request from an owner of privately-owned land with significant direct views from a residence to the mining operations, the Proponent shall implement additional visual impact mitigation measures (such as landscaping treatments or vegetation screens) in consultation with the landowner, and to the satisfaction of the [Secretary](#).

These mitigation measures must be reasonable and feasible, and must be implemented within a reasonable timeframe.

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

### Notes:

- *The additional visual impact mitigation measures must be aimed at reducing the visibility of the mine from significantly affected residences and do not necessarily require measures to reduce visibility of the mine from other locations on the affected properties. The additional visual impact mitigation measures do not necessarily have to include measures on the affected property itself (i.e. the additional measures may consist of measures outside the affected property boundary that provide an effective reduction in visual impacts).*
- *Except in exceptional circumstances, the [Secretary](#) will not require additional visual impact mitigation to be undertaken for residences that are more than 5 kilometres from the mining operations.*

## Visual Amenity and Lighting

49. The Proponent shall:
- (a) implement all reasonable and feasible measures to mitigate visual and off-site lighting impacts of the project;
  - (b) ensure no outdoor lights shine above the horizontal; and
  - (c) ensure that all external lighting associated with the project complies with *Australian Standard AS4282 (INT) 1997 – Control of Obtrusive Effects of Outdoor Lighting*, to the satisfaction of the [Secretary](#).

## WASTE

### Waste Minimisation

50. The Proponent shall:
- (a) minimise the waste generated by the project;
  - (b) ensure that the waste generated by the project is appropriately stored, handled and disposed of;
  - (c) manage on-site sewage treatment and disposal in accordance with the requirements of the applicable Council; and
  - (d) report on waste management and minimisation in the Annual Review, to the satisfaction of the [Secretary](#).
-

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## SCHEDULE 4 ADDITIONAL PROCEDURES

### NOTIFICATION OF LANDOWNERS

1. Within 1 month of the date of this approval, the Proponent shall notify the owners of the land listed in Table 1 of schedule 3 in writing that they have the right to require the Proponent to acquire their land at any stage during the project.
2. If the results of monitoring required in schedule 3 identify that impacts generated by the project are greater than the relevant impact assessment criteria, except where a negotiated agreement has been entered into in relation to that impact, then the Proponent shall, within 2 weeks of obtaining the monitoring results, notify the [Secretary](#), the affected landowners and tenants (including tenants of mine-owned properties) accordingly, and provide quarterly monitoring results to each of these parties until the results show that the project is complying with the criteria in schedule 3.

### INDEPENDENT REVIEW

3. If a landowner of privately-owned land considers the project to be exceeding the impact assessment criteria in schedule 3, then he/she may ask the [Secretary](#) in writing for an independent review of the impacts of the project on his/her land.

If the [Secretary](#) is satisfied that an independent review is warranted, the Proponent shall within 3 months of the [Secretary's](#) decision:

- (b) consult with the landowner to determine his/her concerns;
  - (c) commission a suitably qualified, experienced and independent person, whose appointment has been approved by the [Secretary](#), to conduct monitoring on the land, to:
    - determine whether the project is complying with the relevant impact assessment criteria in schedule 3; and
    - identify the source(s) and scale of any impact on the land, and the project's contribution to this impact; and
  - (d) give the [Secretary](#) and landowner a copy of the independent review.
4. If the independent review determines that the project is complying with the relevant impact assessment criteria in schedule 3, then the Proponent may discontinue the independent review with the approval of the [Secretary](#).

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

- (a) implement all reasonable and feasible measures, in consultation with the landowner, to ensure that the project complies with the relevant criteria, and conduct further monitoring to determine whether these measures ensure compliance; or
- (b) secure a written agreement with the landowner to allow exceedances of the relevant impact assessment criteria, to the satisfaction of the [Secretary](#).

If the further monitoring referred to under paragraph (a) above determines that the project is complying with the relevant impact assessment criteria, then the Proponent may discontinue the independent review with the approval of the [Secretary](#).

### LAND ACQUISITION

5. Within 3 months of receiving a written request from a landowner with acquisition rights, the Proponent shall make a binding written offer to the landowner based on:
  - (a) the current market value of the landowner's interest in the property at the date of this written request, as if the property was unaffected by the project, having regard to the:
    - existing and permissible use of the land, in accordance with the applicable planning instruments at the date of the written request; and
    - presence of improvements on the property and/or any approved building or structure which has been physically commenced at the date of the landowner's written request, and is due to be completed subsequent to that date, but excluding any improvements that have resulted from the implementation of the 'additional noise mitigation measures' in condition 7 of schedule 3 or 'compensatory water supplies' in condition 24 of schedule 3;
  - (b) the reasonable costs associated with:
    - relocating within the same local government area, or to any other local government area determined by the [Secretary](#); and
    - obtaining legal advice and expert advice for determining the acquisition price of the land, and the terms upon which it is to be acquired; and
  - (c) reasonable compensation for any disturbance caused by the land acquisition process.

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However, if at the end of this period, the Proponent and landowner cannot agree on the acquisition price of the land and/or the terms upon which the land is to be acquired, then either party may refer the matter to the [Secretary](#) for resolution.

Upon receiving such a request, the [Secretary](#) shall request the President of the NSW Division of the Australian Property Institute to appoint a qualified independent valuer to:

- (a) consider submissions from both parties;
- (b) determine a fair and reasonable acquisition price for the land and/or the terms upon which the land is to be acquired, having regard to the matters referred to in paragraphs (a)-(c) above;
- (c) prepare a detailed report setting out the reasons for any determination; and
- (d) provide a copy of the report to both parties.

Within 14 days of receiving the independent valuer's report, the Proponent shall make a binding written offer to the landowner to purchase the land at a price not less than the independent valuer's determination.

However, if either party disputes the independent valuer's determination, then within 14 days of receiving the independent valuer's report, they may refer the matter to the [Secretary](#) for review. Any request for a review must be accompanied by a detailed report setting out the reasons why the party disputes the independent valuer's determination. Following consultation with the independent valuer and both parties, the [Secretary](#) shall determine a fair and reasonable acquisition price for the land, having regard to the matters referred to in paragraphs (a)-(c) above and the independent valuer's report. Within 14 days of this determination, the Proponent shall make a binding written offer to the landowner to purchase the land at a price not less than the [Secretary's](#) determination.

If the landowner refuses to accept the Proponent's binding written offer under this condition within 6 months of the offer being made, then the Proponent's obligations to acquire the land shall cease, unless the [Secretary](#) determines otherwise.

6. The Proponent shall pay all reasonable costs associated with the land acquisition process described in condition 5 above.
7. If the Proponent and landowner agree that only part of the land shall be acquired, then the Proponent shall also pay all reasonable costs associated with obtaining Council approval for any plan of subdivision (where permissible), and registration of the plan at the Office of the Registrar-General.

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## SCHEDULE 5

### ENVIRONMENTAL MANAGEMENT, REPORTING AND AUDITING

#### ENVIRONMENTAL MANAGEMENT

##### Environmental Management Strategy

1. The Proponent shall prepare and implement an Environmental Management Strategy for the project to the satisfaction of the [Secretary](#). The strategy must:
  - (a) be submitted to the [Secretary](#) for approval within 6 months of the date of this approval;
  - (b) provide the strategic framework for environmental management of the project;
  - (c) identify the statutory approvals that apply to the project;
  - (d) describe the role, responsibility, authority and accountability of all key personnel involved in the environmental management of the project;
  - (e) describe the procedures that would be implemented to:
    - keep the local community and relevant agencies informed about the operation and environmental performance of the project;
    - receive, handle, respond to, and record complaints;
    - resolve any disputes that may arise during the course of the project;
    - respond to any non-compliance; and
    - respond to emergencies;
  - (f) include:
    - copies of the various strategies, plans and programs that are required under the conditions of this approval once they have been approved; and
    - a clear plan depicting all the monitoring to be carried out in relation to the project.

##### Annual Review

2. By the end of March in each year after the commencement of the project, or other timeframe agreed by the Secretary, a report must be submitted to the Department reviewing the environmental performance of the project, to the satisfaction of the Secretary. This review must:
  - (a) describe the project (including any rehabilitation) that was carried out in the previous calendar year, and the project that is proposed to be carried out over the current calendar year;
  - (b) include a comprehensive review of the monitoring results and complaints records of the project over the previous calendar year, including a comparison of these results against the:
    - relevant statutory requirements, limits or performance measures/criteria;
    - requirements of any plan or program required under this approval;
    - monitoring results of previous years; and
    - relevant predictions in the EA;
  - (c) reporting of direct and indirect water take, including water take where a water licence is required (reviewed against existing water licences) and where an exemption applies;
  - (d) 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;
  - (e) evaluate and report on compliance with the performance measures, criteria and operating conditions of this approval;
  - (f) identify any trends in the monitoring data over the life of the project;
  - (g) identify any discrepancies between the predicted and actual impacts of the project, and analyse the potential cause of any significant discrepancies; and
  - (h) describe what measures will be implemented over the next year to improve the environmental performance of the project.
- 2A. Copies of the Annual Review must be submitted to Council and relevant agencies and made available to the CCC and any interested person upon request.

##### Revision of Strategies, Plans and Programs

3. Within 3 months, unless the Secretary agrees otherwise of:
  - (a) the submission of an annual review under condition 2 above;
  - (b) the submission of an incident report under condition 5 or 5B below;
  - (c) the submission of an audit under condition 7 to 8A below; and
  - (d) any modification of this approval; or
  - (e) a direction of the Secretary under condition 2 of Schedule 2.

the Proponent must review and, if necessary, revise the studies, strategies or plans required under the conditions of approval to the satisfaction of the Secretary.

Where this review leads to revisions in any such document, then within 4 weeks of the review the revised document must be submitted to the Secretary for approval, unless otherwise agreed with the Secretary.

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

## Community Consultative Committee

4. Within 6 months of the date of this approval, the Proponent shall establish Community Consultative Committee (CCC) for the project to the satisfaction of the [Secretary](#). This CCC must be established and operated in general accordance with the *Community Consultative Committee (CCC) Guidelines for State Significant Projects* (NSW Government, 2019), or its latest version.

Notes:

- *The CCC is an advisory committee. The Department and other relevant agencies are responsible for ensuring that the Proponent complies with this approval. In accordance with the Guideline, the Committee should comprise an independent chair and appropriate representation from the Proponent, affected councils and the general community.*
- *In establishing the CCC, the Department will accept the continued representation from existing CCC members, however the Proponent should ensure that adequate representation is achieved for landowners within the area surrounding the Cadia East underground mine.*

## COMPLIANCE

### Incident Notification, Reporting and Response

5. The Secretary must be notified in writing via the Major Projects website immediately after the Proponent becomes aware of an incident. The notification must identify the project (including the application number and the name of the project if it has one) and set out the location and nature of the incident. Subsequent notification requirements must be given, and reports submitted in accordance with the requirements set out in Appendix 9.

### Non-Compliance Notification

- 5A. The Secretary must be notified in writing via the Major Projects website within seven days after the Proponent becomes aware of any non-compliance. A non-compliance notification must identify the project and the application number for it, set out the condition of approval that the project 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.*

### Compliance Reporting

6. Deleted.

## INDEPENDENT ENVIRONMENTAL AUDIT

7. Independent Audits of the project must be conducted and carried out in accordance with the *Independent Audit Post Approval Requirements* (2020).
- 7A. Proposed independent auditors must be agreed to in writing by the Secretary prior to the commencement of an Independent Audit.
- 7B. The Secretary may require the initial and subsequent Independent Audits to be undertaken at different times to those specified in the *Independent Audit Post Approval Requirements* (2020), upon giving at least 4 weeks' notice (or timing) to the Proponent of the date upon which the audit must be commenced.
- 7C. In accordance with the specific requirements in the *Independent Audit Post Approval Requirements* (2020) (or as amended from time to time), the Proponent must:
  - (a) review and respond to each Independent Audit Report prepared under condition 7 of this approval, or condition 7B where notice is given by the Secretary;
  - (b) submit the response to the Secretary; and
  - (c) make each Independent Audit Report, and response to it, publicly available within 60 days of submission to the Secretary, unless otherwise agreed by the Secretary.
8. Independent Audit Reports and the Proponent's response to audit findings must be submitted to the Secretary within 2 months of undertaking the independent audit site inspection, as outlined in the *Independent Audit Post Approvals Requirements* (2020) (or as amended from time to time) unless otherwise agreed by the Secretary.
- 8A. Notwithstanding the requirements of the *Independent Audit Post Approvals Requirements* (2020), the Secretary may approve a request for ongoing independent operational audits to be ceased, where it has been demonstrated to the Secretary's satisfaction that independent operational audits have demonstrated operational compliance.

# CONSOLIDATED CONSENT

*Note: A reference to Independent Audit Post Approval Requirements (2020) in this project consent also includes future amendments to this document.*

## ACCESS TO INFORMATION

9. Before the commencement of construction until the completion of all rehabilitation required under this approval, the Proponent must:
- (a) make the following information and documents (as they are obtained, approved or as otherwise stipulated within the conditions of this approval) publicly available on its website:
- the EA;
  - all current statutory approvals for the project;
  - all approved strategies, plans and programs required under the conditions of this approval;
  - the proposed staging plans for the project if the construction, operation or decommissioning of the project is to be staged;
  - regular reporting on the environmental performance of the project in accordance with the reporting requirements in any plans or programs approved under the conditions of this approval;
  - a comprehensive summary of the monitoring results of the project, reported in accordance with the specifications in any conditions of this approval, or any approved plans and programs;
  - a summary of the current phase and progress of the project;
  - contact details to enquire about the project or to make a complaint;
  - a complaints register, updated monthly;
  - the Annual Reviews of the project;
  - audit reports prepared as part of any Independent Environmental Audit of the project and the Proponent's response to the recommendations in any audit report;
  - any other matter required by the Secretary; and
- (b) keep such information up to date, to the satisfaction of the Secretary.

## UPDATING AND STAGING OF STUDIES, STRATEGIES AND PLANS

10. To ensure the studies, strategies and plans for the project are updated on a regular basis and incorporate any required measures to improve the environmental performance of the project, the Proponent may submit revised studies, strategies or plans required for the project under the conditions of approval at any time. With the agreement of the Secretary, the Proponent may also submit any study, strategy or plan required under the conditions of this approval on a staged basis.
11. The Secretary may approve a revised strategy or plan required under the conditions of approval, or the stage submission of these documents, at any time. With the approval of the Secretary, the Proponent may prepare the revised or staged strategy or plan without undertaking consultation with all parties nominated under the applicable condition in this approval.

### Notes:

- *While any study, strategy or plan may be submitted on a progressive basis, the Proponent must ensure that the existing operations on site are covered by suitable studies, strategies or plans at all times.*
  - *If the submission of any study, strategy or plan is to be staged, then the relevant study, strategy or plan must clearly describe the specific stage to which the study, strategy or plan applies, the relationship of this stage to any future stages, and the trigger for updating the study, strategy or plan.*
-



# CONSOLIDATED CONSENT

## APPENDIX 1: SCHEDULE OF LAND

| EXISTING MINING LEASES |                       |                      |
|------------------------|-----------------------|----------------------|
| Lot Number             | Deposited Plan Number | Parish               |
| 2                      | 1093785               | Clarendon            |
| 9                      | 113692                | Clarendon            |
| 10                     | 113692                | Clarendon            |
| 128                    | 750371                | Clarendon            |
| 127                    | 750371                | Clarendon            |
| 126                    | 750371                | Clarendon            |
| 125                    | 750371                | Clarendon            |
| 124                    | 750371                | Clarendon            |
| 96                     | 750371                | Clarendon            |
| 95                     | 750371                | Clarendon            |
| 97                     | 750371                | Clarendon            |
| 212                    | 865598                | Clarendon            |
| 211                    | 865598                | Clarendon            |
| 93                     | 750371                | Clarendon            |
| 100                    | 576778                | Clarendon/Waldegrave |
| 8                      | 209035                | Waldegrave           |
| 40                     | 705768                | Waldegrave           |
| 1                      | 47553                 | Waldegrave           |
| 158                    | 750371                | Clarendon            |
| 134                    | 750371                | Clarendon            |
| 153                    | 750371                | Clarendon            |
| 6                      | 511485                | Clarendon            |
| 100                    | 750371                | Clarendon            |
| 87                     | 750371                | Clarendon            |
| 5                      | 865599                | Clarendon            |
| 99                     | 750371                | Clarendon            |
| A                      | 437767                | Clarendon            |
| 166                    | 750371                | Clarendon            |
| 6                      | 865599                | Clarendon            |
| 103                    | 750371                | Clarendon            |
| C                      | 437767                | Clarendon            |
| 101                    | 576778                | Waldegrave           |
| 2                      | 47553                 | Waldegrave           |
| 3                      | 47553                 | Waldegrave           |
| 15                     | 234195                | Waldegrave           |
| 18                     | 234195                | Waldegrave           |
| 4                      | 209035                | Waldegrave           |
| 3                      | 209035                | Waldegrave           |
| 17                     | 234195                | Waldegrave           |
| 6                      | 209035                | Waldegrave           |
| 7                      | 655732                | Waldegrave           |
| 19                     | 234195                | Waldegrave           |
| 20                     | 234195                | Waldegrave           |
| 21                     | 750415                | Waldegrave           |
| 41                     | 705768                | Waldegrave           |
| 8                      | 47553                 | Waldegrave           |
| 22                     | 750415                | Waldegrave           |
| 7                      | 47553                 | Waldegrave           |
| 23 part                | 1078095               | Waldegrave           |
| 49                     | 750371                | Clarendon            |
| 3                      | 113692                | Clarendon            |
| 10                     | 252284                | Waldegrave           |
| 6                      | 47553                 | Waldegrave           |
| 240                    | 750415                | Waldegrave           |



# CONSOLIDATED CONSENT

| <b>EXISTING MINING LEASES</b>                                            |                              |                  |
|--------------------------------------------------------------------------|------------------------------|------------------|
| <b>Lot Number</b>                                                        | <b>Deposited Plan Number</b> | <b>Parish</b>    |
| 193                                                                      | 750415                       | Waldegrave       |
| 192                                                                      | 750415                       | Waldegrave       |
| 241                                                                      | 750415                       | Waldegrave       |
| 2                                                                        | 47552                        | Waldegrave       |
| 151                                                                      | 750415                       | Waldegrave       |
| 155                                                                      | 750415                       | Waldegrave       |
| 152                                                                      | 750362                       | Blake            |
| 64                                                                       | 750362                       | Blake            |
| 5                                                                        | 47552                        | Blake            |
| 1                                                                        | 816924                       | Blake            |
| 275                                                                      | 750415                       | Waldegrave       |
| 242                                                                      | 750415                       | Waldegrave       |
| 252                                                                      | 750415                       | Waldegrave       |
| 5                                                                        | 47553                        | Waldegrave       |
| 254                                                                      | 750415                       | Waldegrave       |
| 3                                                                        | 47552                        | Waldegrave       |
| 1                                                                        | 47552                        | Waldegrave       |
| 2                                                                        | 816924                       | Blake/Waldegrave |
| 20                                                                       | 750415                       | Waldegrave       |
| 7001                                                                     | 1020360                      | Waldegrave       |
| 253                                                                      | 750415                       | Waldegrave       |
| 255                                                                      | 750415                       | Waldegrave       |
| 287                                                                      | 750415                       | Waldegrave       |
| 295                                                                      | 823457                       | Waldegrave       |
| 16                                                                       | 234195                       | Waldegrave       |
| 247                                                                      | 750415                       | Waldegrave       |
| 272                                                                      | 750415                       | Waldegrave       |
| 248                                                                      | 750415                       | Waldegrave       |
| 251                                                                      | 750415                       | Waldegrave       |
| 1                                                                        | 750362                       | Blake            |
| 2                                                                        | 750362                       | Blake            |
| 5                                                                        | 750362                       | Blake            |
| 21                                                                       | 825426                       | Blake            |
| 3                                                                        | 731180                       | Blake            |
| 3                                                                        | 750362                       | Blake            |
| 4                                                                        | 750362                       | Blake            |
| 1                                                                        | 731180                       | Blake            |
| 22                                                                       | 825426                       | Blake            |
| 6                                                                        | 47552                        | Blake/Waldegrave |
| 24 part                                                                  | 750362                       | Blake            |
| 25                                                                       | 750362                       | Blake            |
| 201 part                                                                 | 1037198                      | Carlton          |
| 21 part                                                                  | 1038104                      | Blake            |
| 38                                                                       | 750362                       | Blake            |
| 39                                                                       | 750362                       | Blake            |
| 102 part                                                                 | 1040753                      | Blake/Waldegrave |
| 3 part                                                                   | 871086                       | Blake            |
| Crown roads and public roads located within and between the above titles |                              |                  |
| Crown land located within and between the above titles                   |                              |                  |

# CONSOLIDATED CONSENT

| <b>MINING LEASE APPLICATION AREA</b> |                                               |                  |
|--------------------------------------|-----------------------------------------------|------------------|
| <b>Lot Number</b>                    | <b>Deposited Plan Number</b>                  | <b>Parish</b>    |
| 23 part                              | 1078095                                       | Waldegrave       |
| 102 part                             | 1040753                                       | Blake/Waldegrave |
| 22 part                              | 1078095                                       | Waldegrave       |
| Cadia Road part                      | Between Lot 23 DP1078095 and Lot 22 DP1078095 | Waldegrave       |
| 3 part                               | 871086                                        | Blake            |
| 21 part                              | 1038104                                       | Blake            |

| <b>BLAYNEY DEWATERING FACILITY</b> |                              |               |
|------------------------------------|------------------------------|---------------|
| <b>Lot Number</b>                  | <b>Deposited Plan Number</b> | <b>Parish</b> |
| 299                                | 1004555                      | Lindsay       |
| 1                                  | 1006860                      | Lindsay       |

| <b>CVO DEWATERING FACILITY</b> |                              |               |
|--------------------------------|------------------------------|---------------|
| <b>Lot Number</b>              | <b>Deposited Plan Number</b> | <b>Parish</b> |
| 106                            | 1161062                      | Napier        |
| 2                              | 1161062                      | Napier        |

| <b>CONCENTRATE PIPELINE (from Cadia Valley to Blayney Dewatering Facility)</b> |                                                                                                                                |               |
|--------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|---------------|
| <b>Lot Number</b>                                                              | <b>Deposited Plan Number</b>                                                                                                   | <b>Parish</b> |
| 255                                                                            | 750415                                                                                                                         | Waldegrave    |
| 16                                                                             | 234195                                                                                                                         | Waldegrave    |
| 248                                                                            | 750415                                                                                                                         | Waldegrave    |
| 272                                                                            | 750415                                                                                                                         | Waldegrave    |
| 22                                                                             | 750415                                                                                                                         | Waldegrave    |
| 8                                                                              | 47553                                                                                                                          | Waldegrave    |
| 23                                                                             | 1078095                                                                                                                        | Waldegrave    |
|                                                                                | <b>Location Description</b>                                                                                                    | <b>Parish</b> |
| <b>CADIA ROAD</b>                                                              | North of Lot 23 DP1078095 to intersection with Woodville Road                                                                  | Waldegrave    |
| <b>WOODVILLE ROAD</b>                                                          | North of Lot 23 DP1078095 generally in a east and north east direction to the intersection with Long Swamp Road                | Waldegrave    |
| <b>LONG SWAMP ROAD</b>                                                         | North of Lot 10 DP1009643 generally in a east and south east direction to the intersection with Carbine Road                   | Beneree       |
| <b>CARBINE ROAD</b>                                                            | East of Lot B DP961816 generally in a south direction to the intersection with Ovington Lane                                   | Beneree       |
| <b>OVINGTON LANE</b>                                                           | North of Lot 340 DP1049610 generally in a south east and east direction to the intersection with Waterson Lane                 | Calvert       |
| <b>WATERSON LANE</b>                                                           | West and North of Lot 1 DP750367 generally in a North and North East direction to the intersection with Tallwood Road          | Calvert       |
| <b>TALLWOOD ROAD</b>                                                           | West of Lot 4 DP1061305 generally in a South, South East and East direction to Lot 7001 DP1020284                              | Calvert       |
| <b>Lot Number</b>                                                              | <b>Deposited Plan Number</b>                                                                                                   | <b>Parish</b> |
| 7001                                                                           | 1020284                                                                                                                        | Calvert       |
|                                                                                | <b>Location Description</b>                                                                                                    | <b>Parish</b> |
| <b>TALLWOOD ROAD</b>                                                           | South West and West of Lot 335 DP750367 generally in a South, South East and East direction to intersection with Matthews Road | Calvert       |
| <b>MATTHEWS ROAD</b>                                                           | North of Lot 1 DP1093688 generally in a East South East and South direction to the intersection with Browns Creek Road         | Lindsay       |
| <b>BROWNS CREEK ROAD</b>                                                       | South of Lot 130 DP874276 East direction to the intersection with Millthorpe Road                                              | Lindsay       |
| <b>MILLTHORPE ROAD</b>                                                         | West and South West of Lot 1 DP827318 to Lot 1 DP829674                                                                        | Lindsay       |
| <b>Lot Number</b>                                                              | <b>Deposited Plan Number</b>                                                                                                   | <b>Parish</b> |

# CONSOLIDATED CONSENT

| <b>CONCENTRATE PIPELINE (from Cadia Valley to Blayney Dewatering Facility)</b> |                                                               |               |
|--------------------------------------------------------------------------------|---------------------------------------------------------------|---------------|
| <b>Lot Number</b>                                                              | <b>Deposited Plan Number</b>                                  | <b>Parish</b> |
| 1                                                                              | 829674                                                        | Lindsay       |
| 2                                                                              | 829674                                                        | Lindsay       |
| 1                                                                              | 241681                                                        | Lindsay       |
|                                                                                | <b>Location Description</b>                                   | <b>Parish</b> |
| <b>PALMER STREET, BLAYNEY</b>                                                  | East of Lot 1 DP241681 to Lot 28 DP1061031                    | Lindsay       |
| <b>Lot Number</b>                                                              | <b>Deposited Plan Number</b>                                  | <b>Parish</b> |
| 28                                                                             | 1061031                                                       | Lindsay       |
| 48                                                                             | 1063125                                                       | Lindsay       |
| 20                                                                             | 1082402                                                       | Lindsay       |
|                                                                                | <b>Location Description</b>                                   | <b>Parish</b> |
| <b>DOUST STREET, BLAYNEY</b>                                                   | Generally East and South East to a point near Lot 9 DP1097231 | Lindsay       |
| <b>Lot Number</b>                                                              | <b>Deposited Plan Number</b>                                  | <b>Parish</b> |
| 9                                                                              | 1097231                                                       | Lindsay       |
| 10                                                                             | 1097231                                                       | Lindsay       |
|                                                                                | <b>Location Description</b>                                   | <b>Parish</b> |
| <b>MAIN WESTERN RAILWAY CORRIDOR</b>                                           | Generally in a North direction                                | Lindsay       |
| <b>Lot Number</b>                                                              | <b>Deposited Plan Number</b>                                  | <b>Parish</b> |
| 1                                                                              | DP1006860                                                     | Lindsay       |

| <b>NEW CONCENTRATE PIPELINE (from Cadia Valley to Blayney Dewatering Facility then to CVO Dewatering Facility)</b> |                                                                                                                                |               |
|--------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|---------------|
| <b>Lot Number</b>                                                                                                  | <b>Deposited Plan Number</b>                                                                                                   | <b>Parish</b> |
| 255                                                                                                                | 750415                                                                                                                         | Waldegrave    |
| 16                                                                                                                 | 234195                                                                                                                         | Waldegrave    |
| 248                                                                                                                | 750415                                                                                                                         | Waldegrave    |
| 272                                                                                                                | 750415                                                                                                                         | Waldegrave    |
| 22                                                                                                                 | 750415                                                                                                                         | Waldegrave    |
| 8                                                                                                                  | 47553                                                                                                                          | Waldegrave    |
| 23                                                                                                                 | 1078095                                                                                                                        | Waldegrave    |
|                                                                                                                    | <b>Location Description</b>                                                                                                    | <b>Parish</b> |
| <b>CADIA ROAD</b>                                                                                                  | North of Lot 23 DP1078095 to intersection with Woodville Road                                                                  | Waldegrave    |
| <b>WOODVILLE ROAD</b>                                                                                              | North of Lot 23 DP1078095 generally in a east and north east direction to the intersection with Long Swamp Road                | Waldegrave    |
| <b>LONG SWAMP ROAD</b>                                                                                             | North of Lot 10 DP1009643 generally in a east and south east direction to the intersection with Carbine Road                   | Beneree       |
| <b>CARBINE ROAD</b>                                                                                                | East of Lot B DP961816 generally in a south direction to the intersection with Ovington Lane                                   | Beneree       |
| <b>OVINGTON LANE</b>                                                                                               | North of Lot 340 DP1049610 generally in a south east and east direction to the intersection with Waterson Lane                 | Calvert       |
| <b>WATERSON LANE</b>                                                                                               | West and North of Lot 1 DP750367 generally in a North and North East direction to the intersection with Tallwood Road          | Calvert       |
| <b>TALLWOOD ROAD</b>                                                                                               | West of Lot 4 DP1061305 generally in a South, South East and East direction to Lot 7001 DP1020284                              | Calvert       |
| <b>Lot Number</b>                                                                                                  | <b>Deposited Plan Number</b>                                                                                                   | <b>Parish</b> |
| 7001                                                                                                               | 1020284                                                                                                                        | Calvert       |
|                                                                                                                    | <b>Location Description</b>                                                                                                    | <b>Parish</b> |
| <b>TALLWOOD ROAD</b>                                                                                               | South West and West of Lot 335 DP750367 generally in a South, South East and East direction to intersection with Matthews Road | Calvert       |
| <b>MATTHEWS ROAD</b>                                                                                               | North of Lot 1 DP1093688 generally in a East South East and South direction to the intersection with Browns Creek Road         | Lindsay       |

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| <b>NEW CONCENTRATE PIPELINE (from Cadia Valley to Blayney Dewatering Facility then to CVO Dewatering Facility)</b> |                                                                                   |               |
|--------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|---------------|
| <b>BROWNS CREEK ROAD</b>                                                                                           | South of Lot 130 DP874276 East direction to the intersection with Millthorpe Road | Lindsay       |
| <b>MILLTHORPE ROAD</b>                                                                                             | West and South West of Lot 1 DP827318 to Lot 1 DP829674                           | Lindsay       |
| <b>Lot Number</b>                                                                                                  | <b>Deposited Plan Number</b>                                                      | <b>Parish</b> |
| 1                                                                                                                  | 829674                                                                            | Lindsay       |
| 2                                                                                                                  | 829674                                                                            | Lindsay       |
| 1                                                                                                                  | 241681                                                                            | Lindsay       |
|                                                                                                                    | <b>Location Description</b>                                                       | <b>Parish</b> |
| <b>PALMER STREET, BLAYNEY</b>                                                                                      | East of Lot 1 DP241681 to Lot 28 DP1061031                                        | Lindsay       |
| <b>Lot Number</b>                                                                                                  | <b>Deposited Plan Number</b>                                                      | <b>Parish</b> |
| 28                                                                                                                 | 1061031                                                                           | Lindsay       |
| 48                                                                                                                 | 1063125                                                                           | Lindsay       |
| 20                                                                                                                 | 1082402                                                                           | Lindsay       |
|                                                                                                                    | <b>Location Description</b>                                                       | <b>Parish</b> |
| <b>DOUST STREET, BLAYNEY</b>                                                                                       | Generally East and South East to a point near Lot 9 DP1097231                     | Lindsay       |
| <b>Lot Number</b>                                                                                                  | <b>Deposited Plan Number</b>                                                      | <b>Parish</b> |
| 9                                                                                                                  | 1097231                                                                           | Lindsay       |
| 10                                                                                                                 | 1097231                                                                           | Lindsay       |
|                                                                                                                    | <b>Location Description</b>                                                       | <b>Parish</b> |
| <b>MAIN WESTERN RAILWAY CORRIDOR</b>                                                                               | Generally in a North direction                                                    | Lindsay       |
| <b>Lot Number</b>                                                                                                  | <b>Deposited Plan Number</b>                                                      | <b>Parish</b> |
| 1                                                                                                                  | DP1006860                                                                         | Lindsay       |

| <b>NEW CONCENTRATE PIPELINE (from Blayney Dewatering Facility to CVO Dewatering Facility)</b> |                                                  |               |
|-----------------------------------------------------------------------------------------------|--------------------------------------------------|---------------|
|                                                                                               | <b>Location Description</b>                      | <b>Parish</b> |
| <b>MAIN WESTERN RAILWAY CORRIDOR</b>                                                          | Generally in a East direction to Lot 1 DP1098682 | Lindsay       |
| <b>Lot Number</b>                                                                             | <b>Deposited Plan Number</b>                     | <b>Parish</b> |
| 1                                                                                             | 1098682                                          | Napier        |
| 2                                                                                             | 1073048                                          | Napier        |
| 3                                                                                             | 1073048                                          | Napier        |

| <b>BELUBULA RIVER PIPELINE</b> |                              |               |
|--------------------------------|------------------------------|---------------|
| <b>Lot Number</b>              | <b>Deposited Plan Number</b> | <b>Parish</b> |
| 21                             | 825426                       | Blake         |
| 1                              | 731180                       | Blake         |
| 24                             | 750362                       | Blake         |
| 25                             | 750362                       | Blake         |
| 201                            | 1037198                      | Carlton       |
| 21                             | 1038104                      | Blake         |

| <b>PANUARA ROAD</b> |                                                |               |
|---------------------|------------------------------------------------|---------------|
| <b>Lot Number</b>   | <b>Deposited Plan Number</b>                   | <b>Parish</b> |
| 22                  | 1038104                                        | Blake         |
| 141                 | 1082789                                        | Blake/Carlton |
|                     | <b>Location Description</b>                    | <b>Parish</b> |
| Crown land          | Between Lot 141 DP1082789 and Lot 180 DP750386 | Blake/Carlton |

| <b>FLYERS CREEK WEIR</b> |                                              |               |
|--------------------------|----------------------------------------------|---------------|
| <b>Lot Number</b>        | <b>Deposited Plan Number</b>                 | <b>Parish</b> |
| Crown land               | Between Lot 22 DP1078095 and Lot 32 DP750367 | Waldegrave    |
| 22                       | 1078095                                      | Waldegrave    |
| 2                        | 776655                                       | Waldegrave    |

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|                 |                                                  |            |
|-----------------|--------------------------------------------------|------------|
| Cadia Road part | Between Lot 23 DP1078095 and Lot 22<br>DP1078095 | Waldegrave |
|-----------------|--------------------------------------------------|------------|

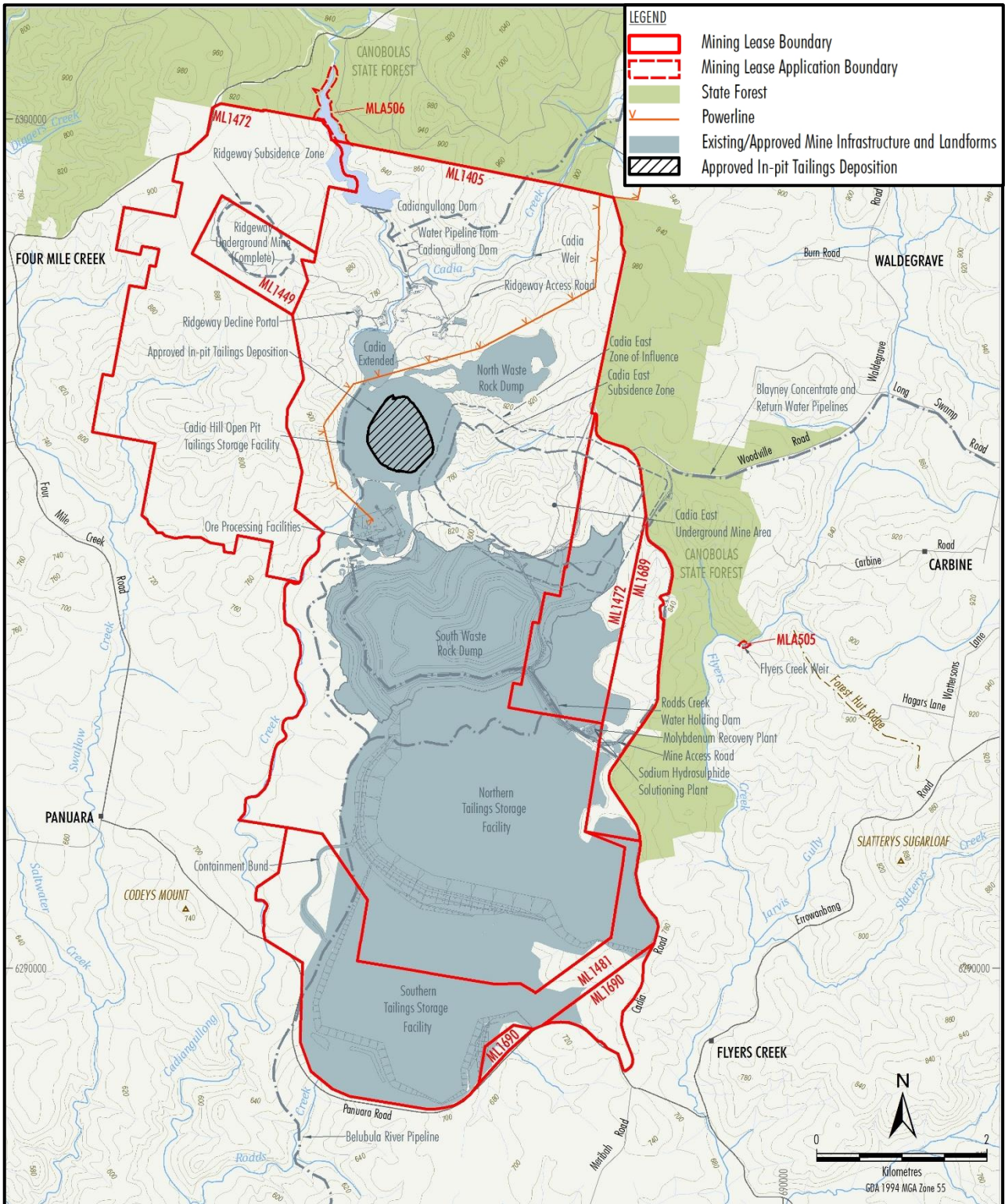
| <b>CADIANGULLONG DAM (Mining Lease Application [MLA 506])</b> |                              |               |
|---------------------------------------------------------------|------------------------------|---------------|
| <b>Lot Number</b>                                             | <b>Deposited Plan Number</b> | <b>Parish</b> |
| 13                                                            | 750371                       | Clarendon     |
| 22                                                            | 750371                       | Clarendon     |
| 82                                                            | 750415                       | Waldegrave    |
| 123                                                           | 750415                       | Waldegrave    |
| 169                                                           | 750415                       | Waldegrave    |

FOR INFORMATION



# CONSOLIDATED CONSENT

## APPENDIX 2: PROJECT LAYOUT PLANS





# CONSOLIDATED CONSENT









# CONSOLIDATED CONSENT

## APPENDIX 3: PREVIOUS EAs

### **Cadia Hill Mine**

Development Application 44/95 and Environmental Impact Statement titled Cadia Gold Mine, dated October 1995, and prepared by AGC Woodward-Clyde Pty Limited, as amended by the following:

- Submissions to the Commission of Inquiry;
- Modification Application MOD-92-11-2002-i;
- Statement of Environmental Effects titled Cadia Hill Gold Mine, dated October 2002, and prepared by Resource Strategies Pty. Ltd.;
- Modification application MOD 98-9-2003 I, and accompanying Statement of Environmental Effects titled Cadia Hill Gold Mine – Cadia North Waste Rock Modification, dated September 2003 and prepared by Cadia Holdings Pty Limited;
- Statement of Environmental Effects titled Cadia Valley Operations – Concentrate Road Transport;
- Modification, dated March 2004, and prepared by Cadia Holdings Pty Limited and Resource Strategies;
- Statement of Environmental Effects titled Cadia Valley Operations South Dump Modification dated May 2004, and prepared by Cadia Holdings Pty Limited; and
- Cadia Hill Gold Mine – Development Consent Modification Application, dated 11 May 2007;
- Cadia Hill Gold Mine – Development Consent Modification Application and supporting documentation, dated 30 November 2007;
- Modification application 44/95 MOD 7, and accompanying Statement of Environmental Effects titled Cadia Valley Operations – South Waste Rock Dump Modification, dated February 2008;
- Modification application DA 44/95 MOD 8, and accompanying supporting documentation titled Cadia Valley Operations Water Efficiency Modification – Environmental Review, dated September 2008;
- Modification application 44/95 MOD 9, and accompanying supporting documentation titled Cadia Valley Operations Processing Rate Modification – Environmental Review, dated October 2008;
- Modification application MOD 10 and supporting documentation dated 25 August 2009.

### **Ridgeway Mine**

Development Application 134-04-00, and Environmental Impact Statement titled Ridgeway Gold Project, dated April 2000, and prepared by Resource Strategies Pty Limited, as amended by the following:

- Submission to the Commission of Inquiry
- application to modify a development consent numbered 134-04-00/ M1, submitted to the Department of Urban Affairs and Planning on 7 April 2001, in accordance with Section 96(1A) of the Act, and supporting documentation produced by Resource Strategies Pty Limited, dated April 2001;
- the modification application MOD-Cadia-2004, and accompanying Statement of Environmental Effects titled Cadia Valley Operations – Concentrate Road Transport Modification, dated March 2004, and prepared by Cadia Holdings Pty Limited and Resource Strategies;
- Statement of Environmental Effects titled Cadia Valley Operations South Dump Modification, dated May 2004, and prepared by Cadia Holdings Pty Limited;
- Ridgeway Project – Development Consent Modification Application, dated 10 May 2007;
- Modification application 134-04-00 MOD 6, and accompanying Statement of Environmental Effects titled Cadia Valley Operations – South Waste Rock Dump Modification, dated February 2008;
- Modification application 134-04-00 MOD 7, and accompanying supporting documentation titled Ridgeway Project Modification – Environmental Review, dated March 2008,
- Modification application 134-04-00 MOD 8, and accompanying supporting documentation titled Cadia Valley Operations Water Efficiency Modification – Environmental Review, dated September 2008,
- Modification application 134-04-00 MOD 9, and accompanying supporting documentation titled Cadia Valley Operations Processing Rate Modification Environmental Review, dated October 2008,
- Modification application 134-04-00 MOD 10, and accompanying supporting documentation titled Cadia Valley Operations High Grade Circuit Modification – Environmental Review, dated October 2009.

### **Ridgeway Deeps Mine Extension**

DA 257-10-2004 and Statement of Environmental Effects, dated October 2004, and prepared by Resource Strategies Pty Ltd, as amended by:

- Modification application DA 257-10-2004 MOD 1, and accompanying supporting documentation titled Ridgeway Project Modification – Environmental Review, dated March 2008;
- Modification application DA 257-10-2004 MOD 2, and accompanying supporting documentation titled Cadia Valley Operations Water Efficiency Modification – Environmental Review, dated September 2008;
- Modification application DA 257-10-2004 MOD 3, and accompanying supporting documentation titled Cadia Valley Operations Processing Rate Modification Environmental Review, dated October 2008;
- Modification application 257-10-2004 MOD 4, and accompanying supporting documentation titled Cadia Valley Operations High Grade Circuit Modification – Environmental Review, dated October 2009.

### **Blayney Dewatering Facility**

Development Application No. 133-04-00 and Statement of Environmental Effects dated April, 2000, and prepared by Resource Strategies Pty Ltd, as amended by:

- All other relevant documentation including additional information provided to DUAP and the Commission of Inquiry including the Primary Submission and responses to questions;

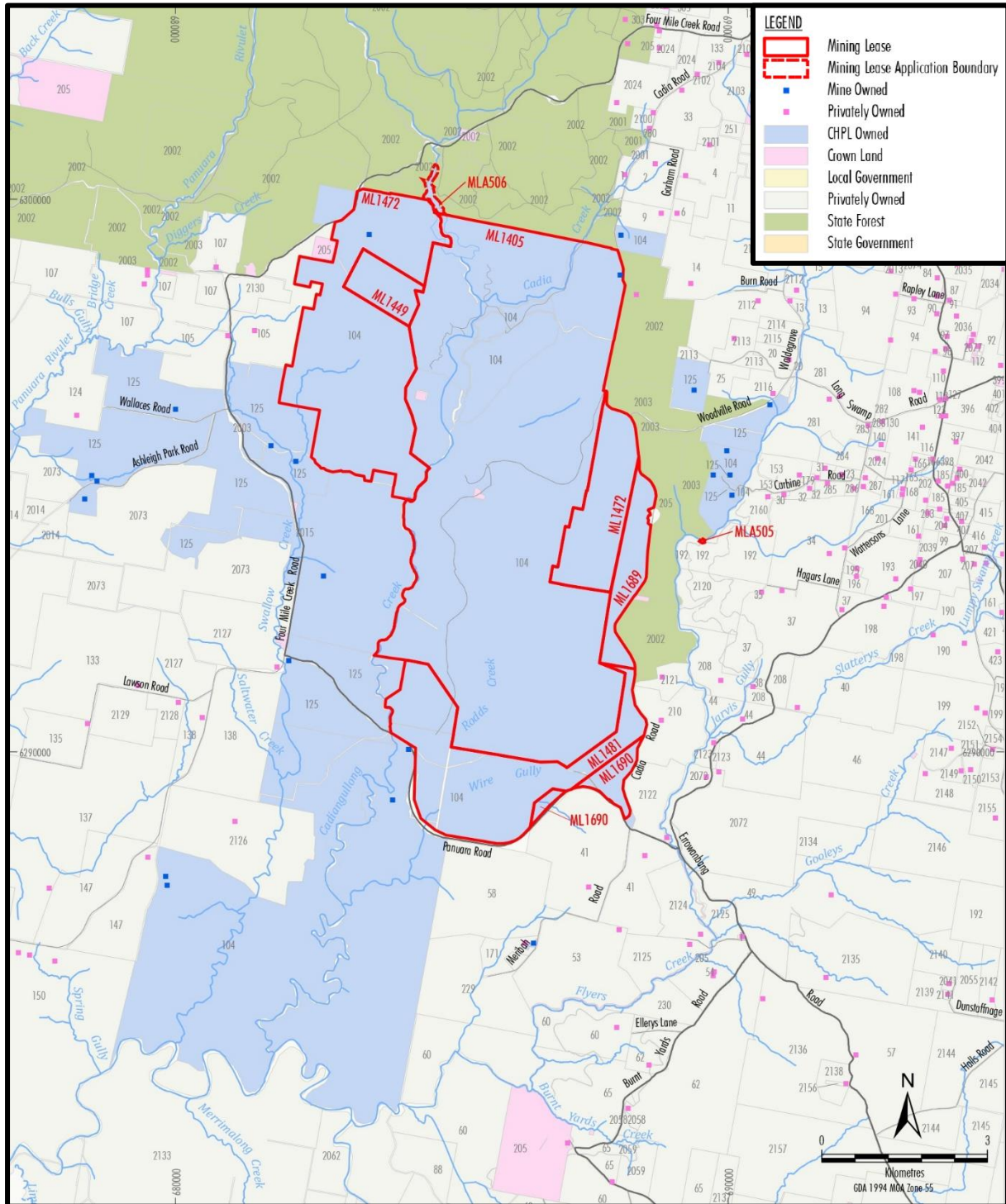
## CONSOLIDATED CONSENT

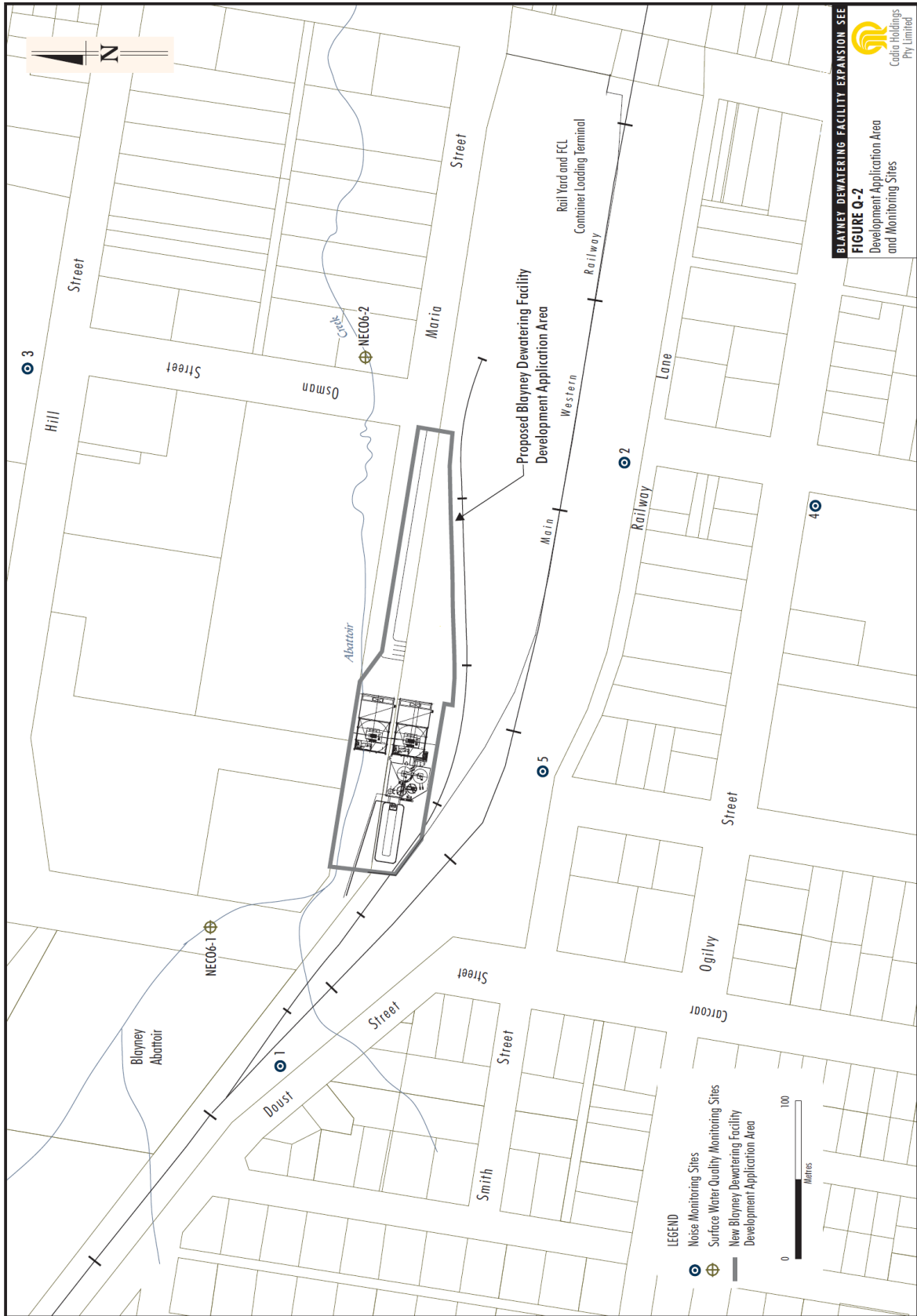
- Application to modify a development consent numbered 133-04-00/m1, submitted to the Department of Urban Affairs and Planning on 1 May 2001, in accordance with Section 96(1A) of the Act, and supporting documentation produced by Resource Strategies Pty Limited, dated April 2001;
- Modification application MOD-Cadia-2004 and the accompanying Statement of Environmental Effects titled "Cadia Valley Operations – Concentrate Road Transport Modification SEE", prepared by Cadia Holdings Pty Limited and Resource Strategies, dated March 2004;
- Modification application MOD-2-1-2005 and the accompanying Statement of Environmental Effects titled "Blayney Concentrate Dewatering and Loading Facility, Section 96(1A) Loading Modification, Supporting Information", prepared by Cadia Holdings Pty Limited and Resource Strategies Pty Ltd, dated December 2004.

FOR INFORMATION

## APPENDIX 4: RECEIVER LOCATION PLANS

(Note: The receiver locations for the CVO Dewatering Facility are shown on the relevant plan in Appendix 2).



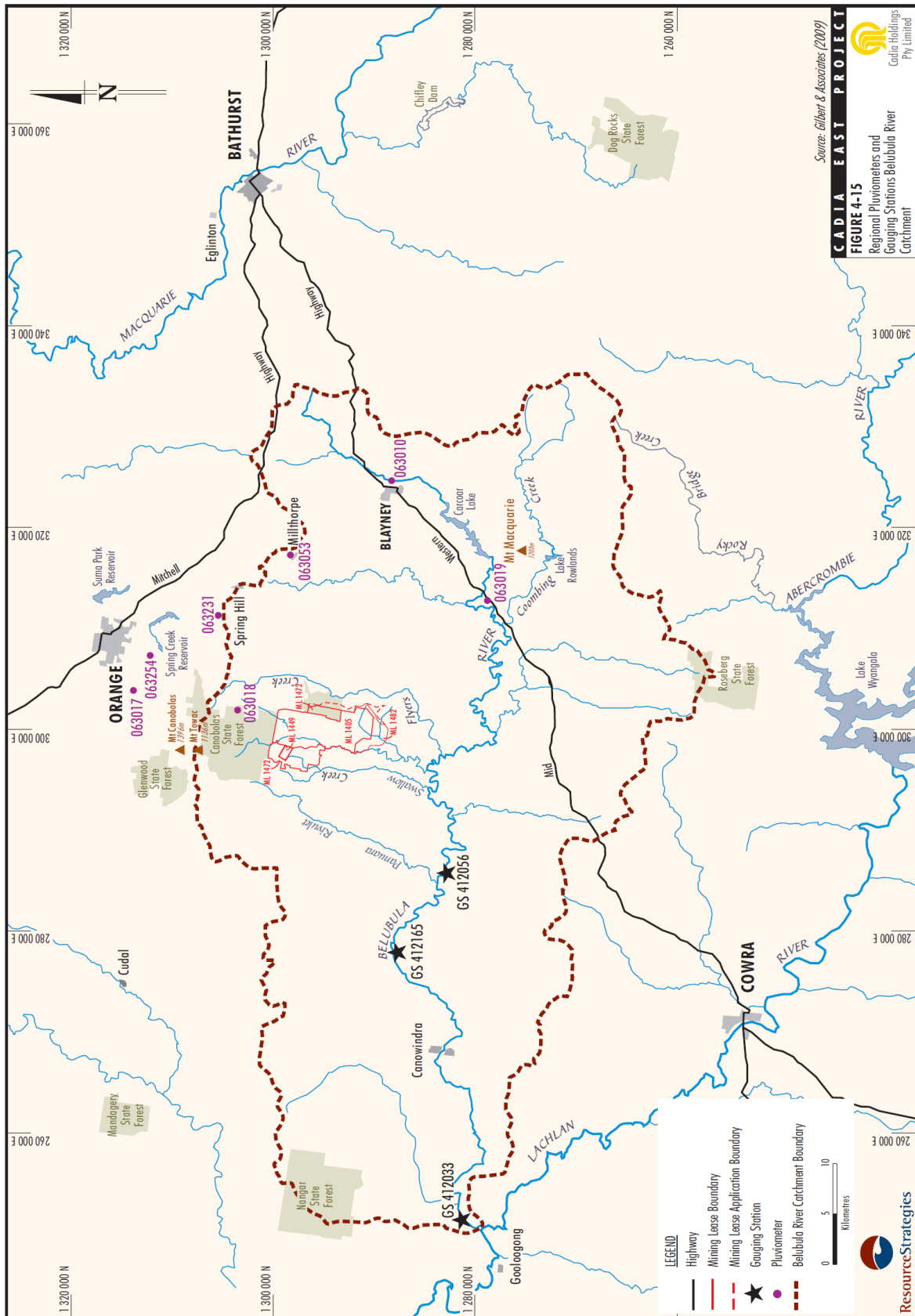


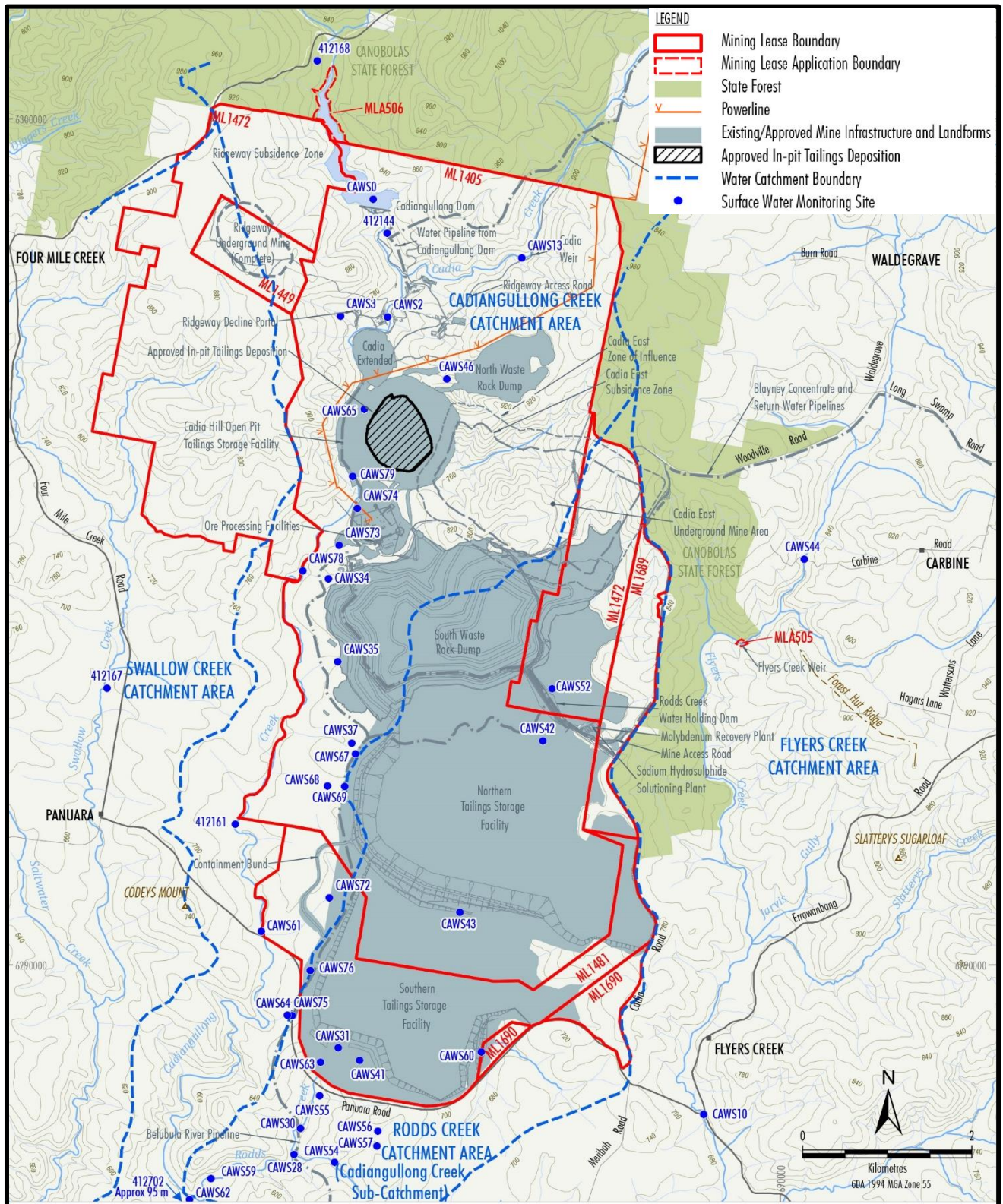
**BLAYNEY DEWATERING FACILITY EXPANSION - SEE**  
**FIGURE Q-2**  
 Development Application Area  
 and Monitoring Sites



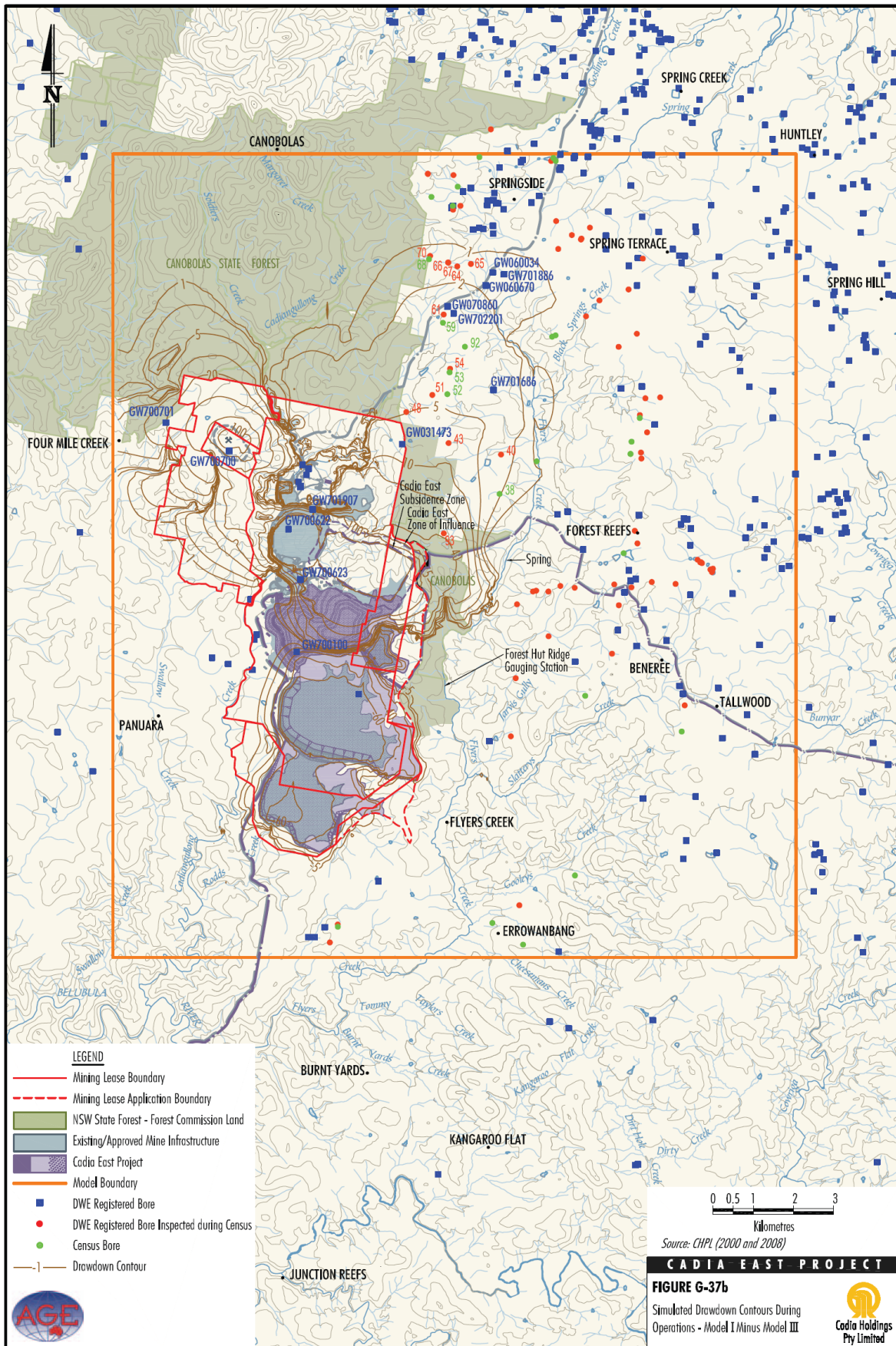


## APPENDIX 5: WATER CATCHMENTS AND GROUNDWATER DRAWDOWN PLANS















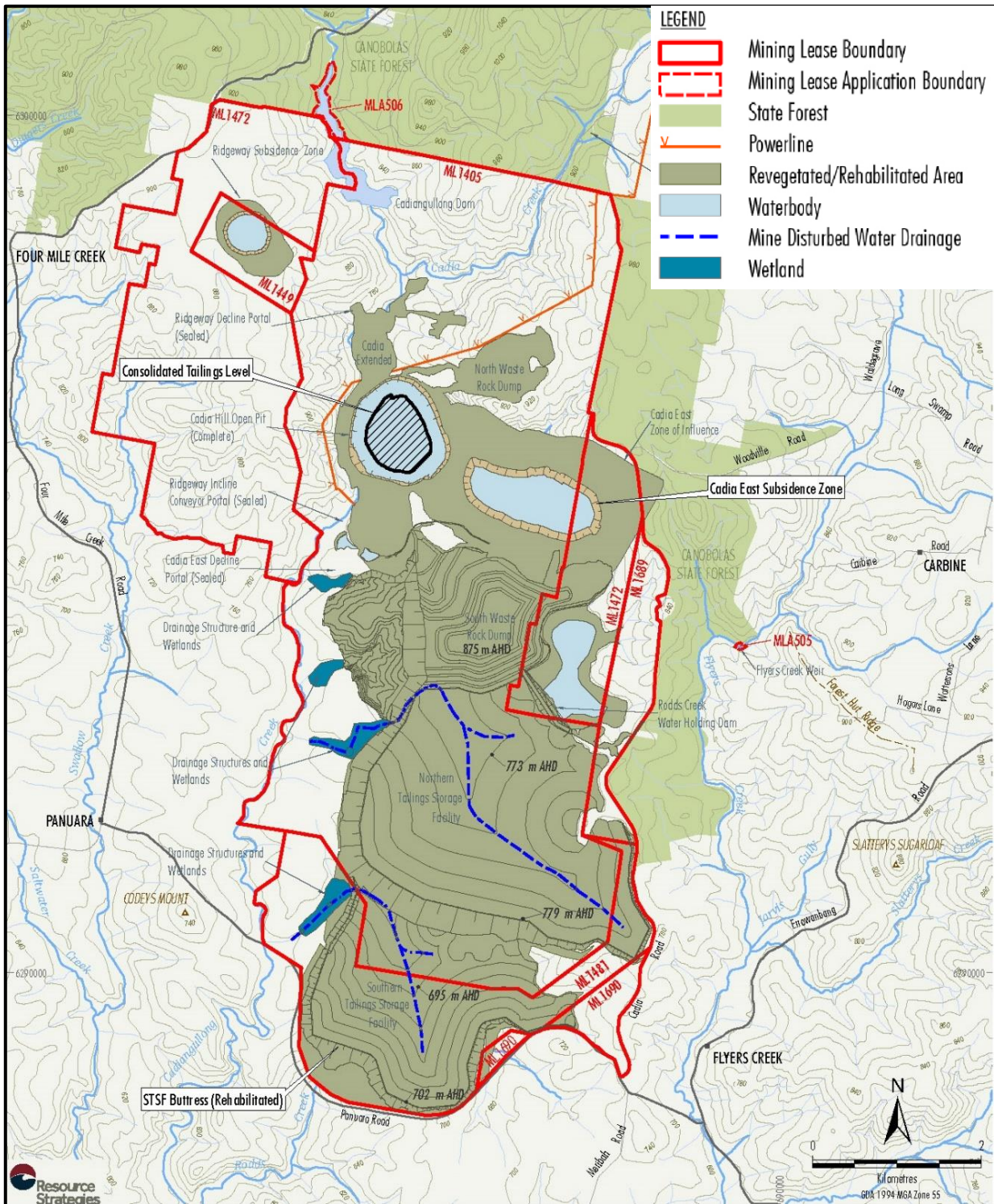


Figure 6.1A – Conceptual Landform for NTSF and STSF – As approved for Modification 14



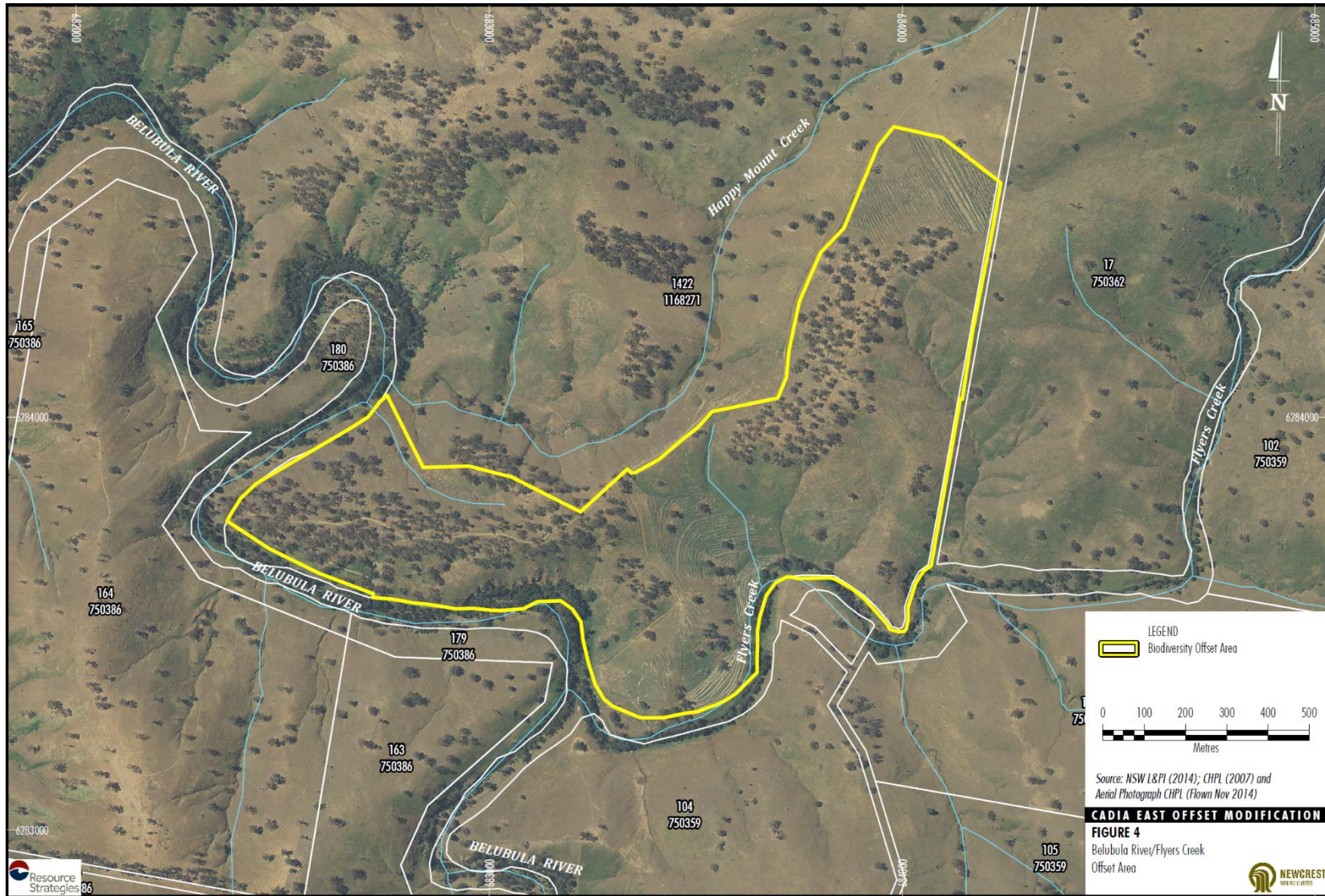


Figure 6.2: Belubula River/Flyers Creek Offset Area



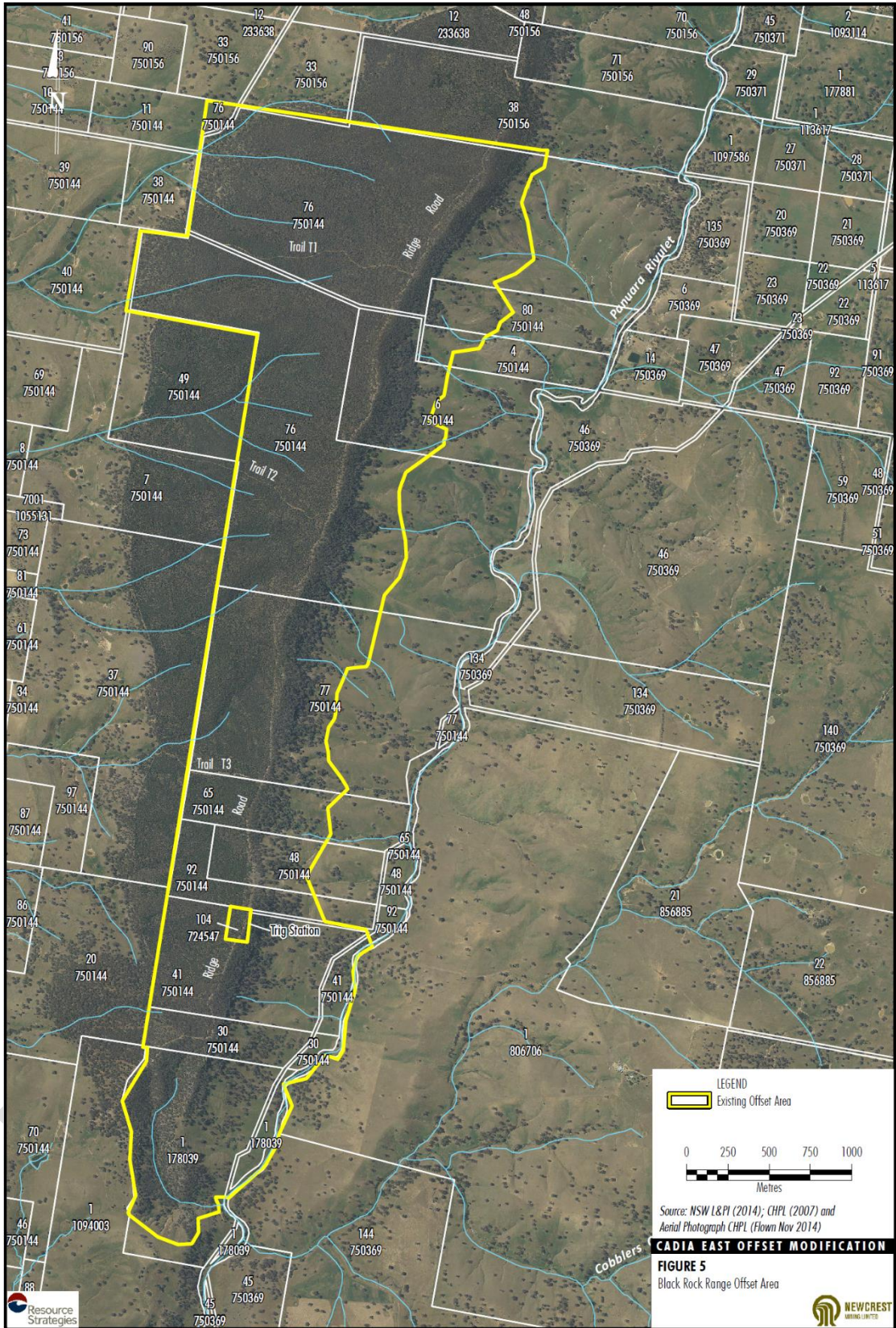


Figure 6.3: Black Rock Range Offset Area



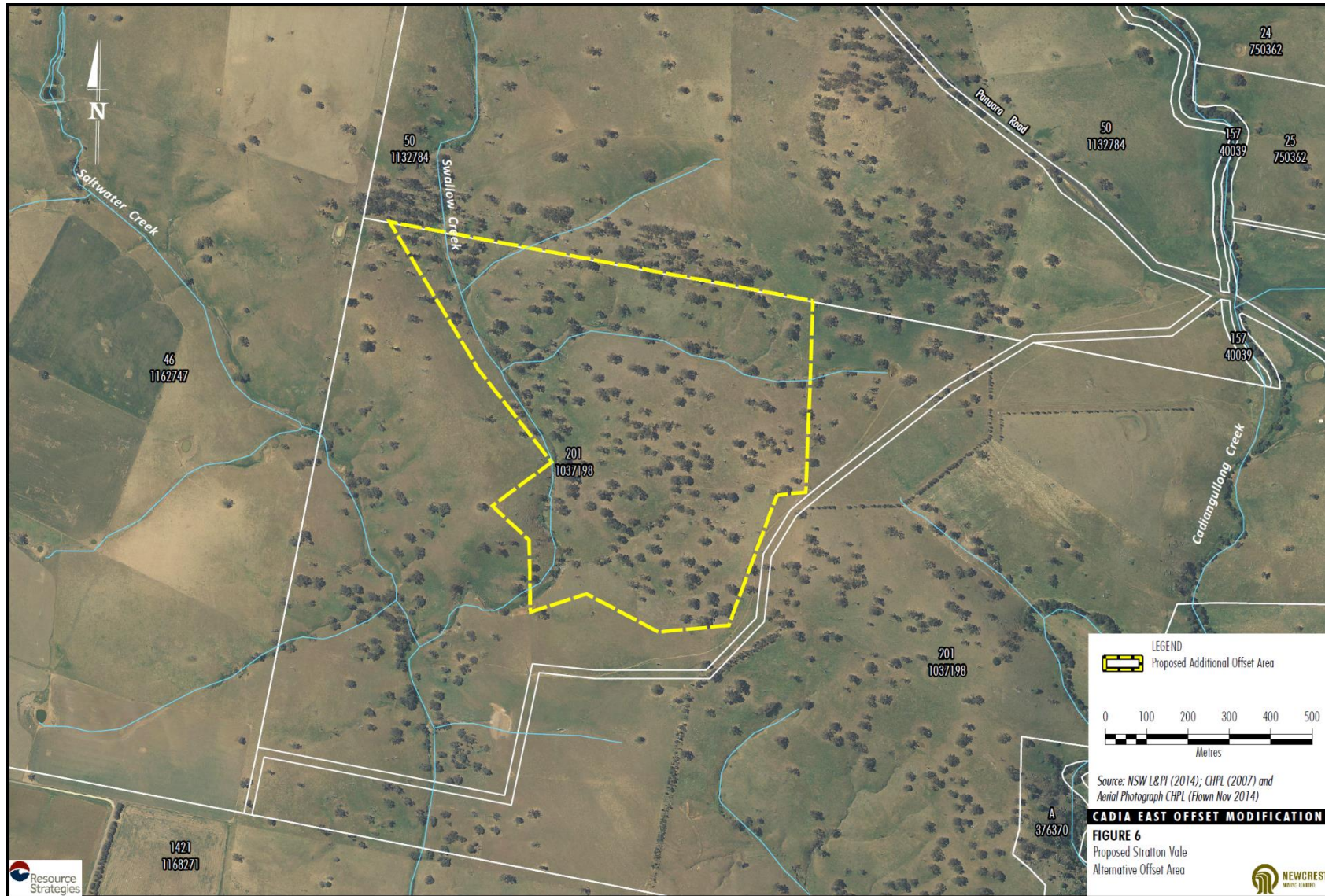


Figure 6.4: Stratton Vale Offset Area

## APPENDIX 7: GENERAL TERMS FOR THE PLANNING AGREEMENT

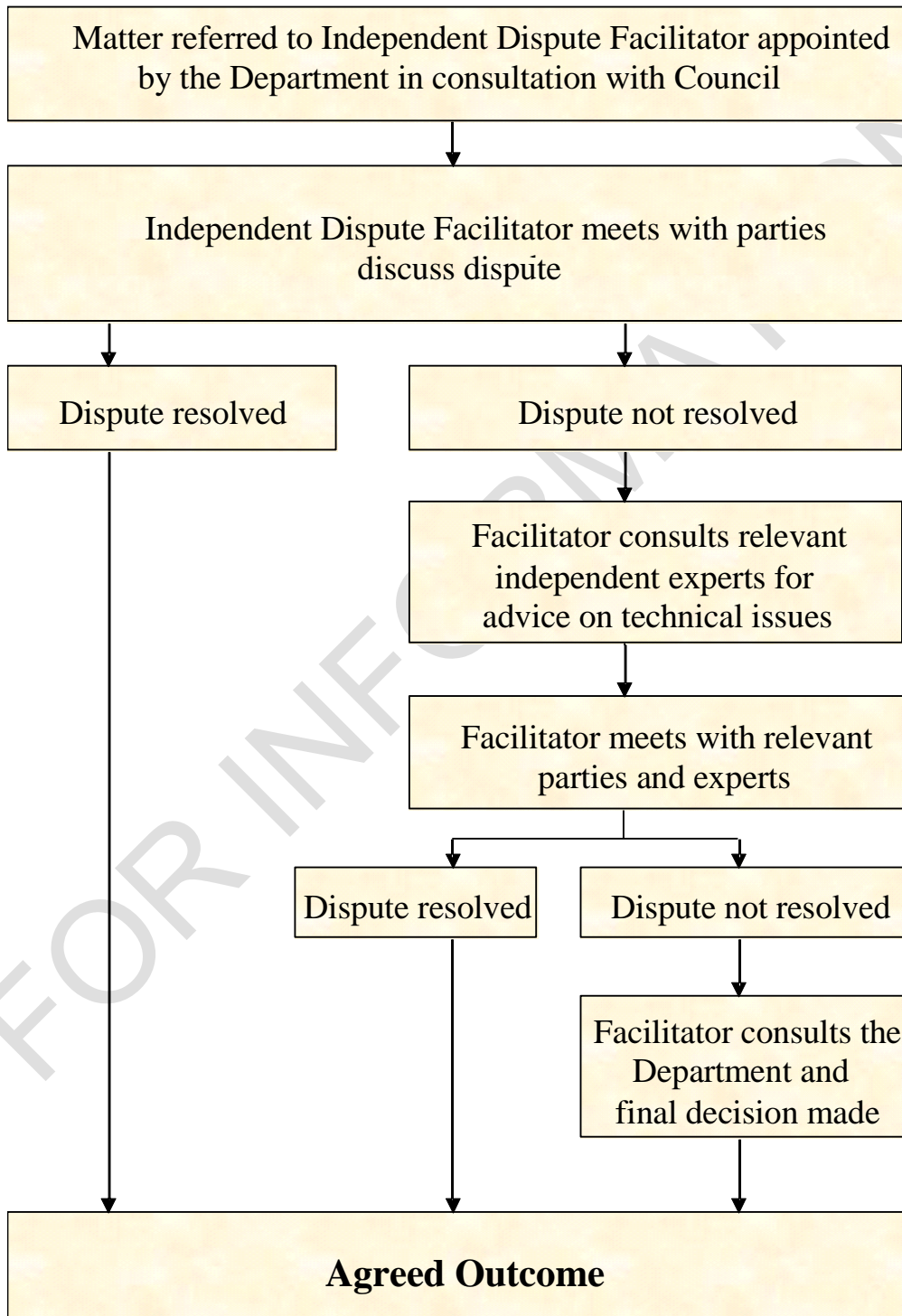
Contributions to the Councils up to a total of \$8 million (\$3 million upfront [within the first 3 years] and \$238,000 each year for 21 years) for:

- upgrade of the Councils' road infrastructure affected by the project; and
- general community enhancement to address social amenity and community infrastructure requirements arising from the project.

*Note: The road maintenance agreements will be determined upon completion of a road condition survey and assessment of future maintenance requirements, which will be facilitated by Orange City Council on behalf of the three Councils and the Proponent.*

APPENDIX 8: INDEPENDENT DISPUTE RESOLUTION PROCESS

**Independent Dispute Resolution Process  
(Indicative only)**





## APPENDIX 9: INCIDENT NOTIFICATION AND REPORTING REQUIREMENTS WRITTEN

### WRITTEN INCIDENT NOTIFICATION REQUIREMENTS

1. A written incident notification addressing the requirements set out below must be submitted to the Secretary via the Major Projects website within seven days after the Proponent becomes aware of an incident.
2. Written notification of an incident must:
  - (a) identify the project 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 Proponent became aware of the incident;
  - (e) identify any actual or potential non-compliance with conditions of approval;
  - (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 Secretary, the Proponent must provide the Secretary and any relevant public authorities (as determined by the Secretary) with a detailed report on the incident addressing all requirements below, and such further reports as may be requested.
4. The Incident Report must include:
  - (a) a summary of the incident;
  - (b) outcomes of an incident investigation, including identification of the cause of the incident;
  - (c) details of the corrective and preventative actions that have been, or will be, implemented to address the incident and prevent recurrence; and
  - (d) details of any communication with other stakeholders regarding the incident.