



710-005-EN-PLA-0003

CADIA NOISE MANAGEMENT PLAN

REGULATORY APPROVAL

Rev	Revision Date	Developed By	Issued To	Approved By	Approval Date
1	28/03/2022	Newcrest	DPE		
2	22/07/2022	Newcrest	DPE		
2.1	19/11/2023	Newcrest	DPE		
2.2	30/11/2023	Newmont	DPE		
3.0	24/04/2024	Newmont	DPE		
3.6	16/07/2025	Newmont	DPHI		
3.7	23/01/2026	Newmont Umwelt	DPHI		
3.8					

DOCUMENT CONTROL

Rev	Date	Section	Description of changes	Reviewer
1	12/03/2022	N/A	Supersedes 710-005-EN-PLA-0003	
2	22/07/2022	N/A	Updated based on DPE comments 26/05/2022	
2.2	19/04/2023	Various	Updated based on DPE comments 17/03/2023	
2.3	30/11/2023	Various	Updated based on DPE comments 22/09/2023	
3.0	24/04/2024	Various	Updates based on Noise Specialist input as agreed by DPHI	Tim Procter (Umwelt) L Holley (Cadia)
3.3	10/09/2024	Various	Changes as requested by EPA advice Renaming of monitoring locations	Tim Procter (Umwelt) L Holley (Cadia)
3.4	12/11/2024	Various	Changes as per DPHI RFI dated 30/10/2024	Tim Procter (Umwelt) L Holley (Cadia)
3.5	19/12/2024	Various	Changes as per DPHI comments in document	Tim Procter (Umwelt) L Holley (Cadia)

Rev	Date	Section	Description of changes	Reviewer
3.6	16/07/2025	Various	Updates as per Modification 15 Updated as per consultation with EPA	Tim Procter (Umwelt) L Holley (Cadia)
3.7	23/01/2026	Various	Changes as per DPHI RFI dated 10/12/2025	Tim Procter (Umwelt) Newmont Cadia
3.8				

APPROVAL

Revision No.	Approval Date	Signature
3.8	23/01/2026	David Coe
		Director- Environment

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1 INTRODUCTION

1.1 Overview

Newmont Overseas Holdings Pty Corporation (Australia), a wholly owned indirect subsidiary of Newmont Corporation is the owner of Cadia Holdings Pty Limited (CHPL). CHPL is the owner and operator of Cadia mine (Cadia). Cadia is one of Australia’s largest gold mining operations.

Commencing in 1998 and operating continuously since, Cadia is located approximately 25 km south of Orange in the Central Tablelands region of New South Wales (NSW). The mining operation occurs across two local government areas (LGAs) (Blayney Shire Council and Cabonne Council) (refer to **Error! Reference source not found.**).

Cadia provides an important economic contribution to the region and NSW and is a major regional employer providing approximately 1,400 full time equivalent jobs. Confirmed mineable resources have been identified to extend operations well beyond the life of the current Project Approval (PA) (06_0295) which provides for mining until 30 June 2031. Cadia has commenced planning for the continuation of mining operations and is delivering this work through the Cadia Continued Operations Project (CCOP).

PA 06_295 issued to CHPL in January 2010 under the NSW *Environmental Planning and Assessment Act 1979* (EP&A Act) provides for the following:

- Life of mine ore production (up to 30 June 2031) of approximately 525 million tonnes (Mt) of gold/copper ore from Cadia East and approximately 96 Mt of ore from Ridgeway underground mine.
- Processing of up to 35 Mt per annum¹ (Mtpa) of gold/copper/molybdenum ore on site to produce gold doré from a gravity circuit, a gold-rich copper concentrate from a flotation circuit (which is piped to a dewatering plant at nearby Blayney and then sent by rail to Port Kembla in NSW for export) as well as a molybdenum rich concentrate which is sent by truck to Port Kembla in NSW for export.
- Disposal of tailings through emplacement into one of three tailings storage facilities (TSFs) being the Northern TSF [NTSF], Southern TSF [STSF] and Pit TSF [PTSF].
- Significant surface infrastructure and ancillary activities to support the operation of the mine including ore processing, rock emplacements, water management, maintenance, store and staff facilities and land management practices.

PA 06_0295 has been modified 16 times since issue, with the most recent modification approved on 6 February 2026. Modification 17 confirms the Approved Disturbance Footprint and relocates the approved Hydrocyclone plant. This is considered an administrative update to Figure 1.1 without any change to the projects environmental and social impacts.

CHPL also hold other environmental licences and mining approvals and authorities related to Cadia. These are available on the Cadia website and summarised in Section 2.

¹Subject to the satisfaction of Condition 6A, Schedule 2 of the Project Approval.

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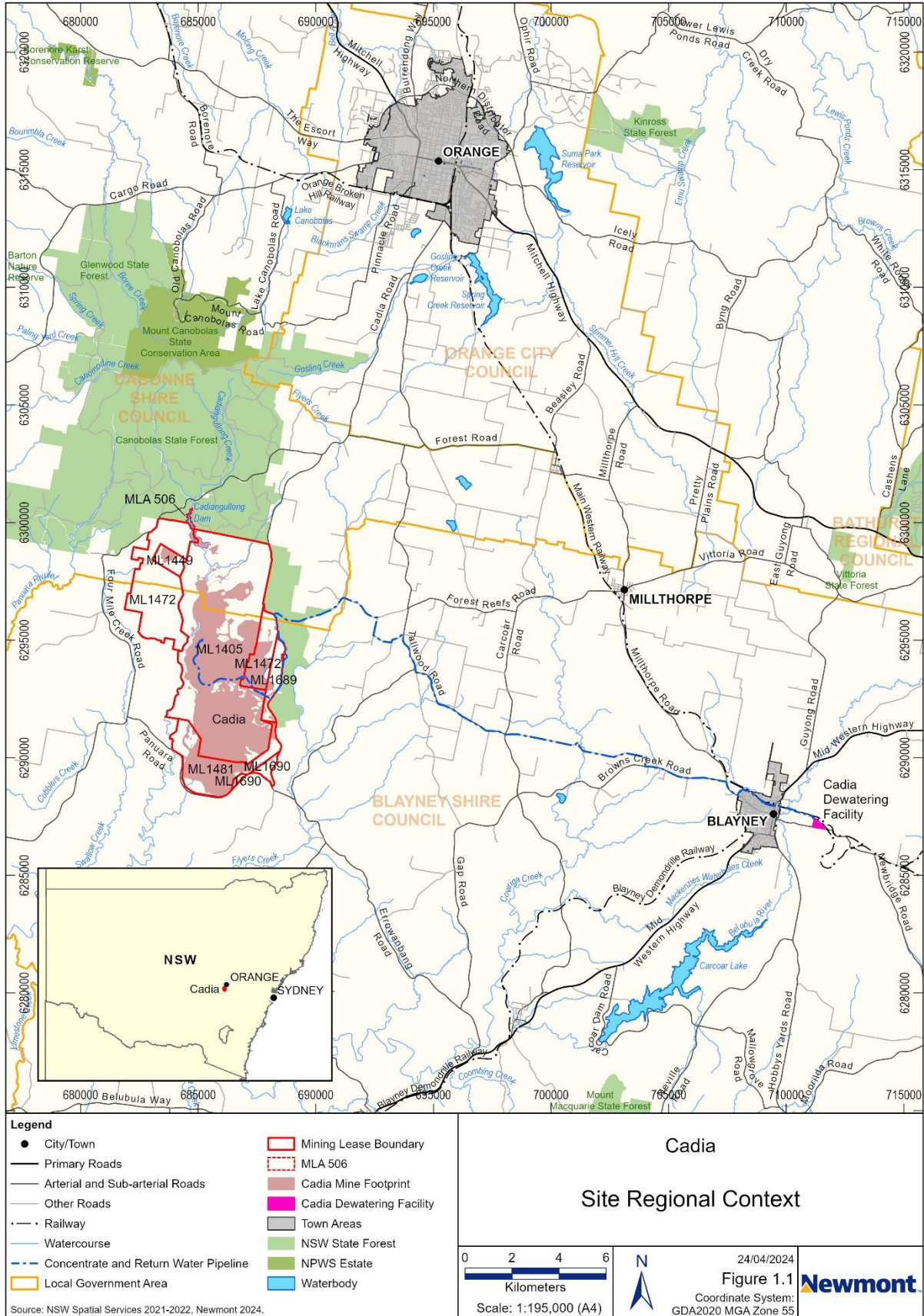


Figure 1- Location of Cadia in a regional context

1.2 Document purpose and scope

This Noise Management Plan (NMP) has been developed in accordance with the applicable noise related conditions of the Cadia East Consolidated Project Approval (reference number PA06_0295), the Environmental Protection Licence (EPL) 5590, commitments made in the Environmental Assessment (EA), and obligations in project licences and permits. The consolidated project approval¹ contains the original consent conditions along with all modifications to the original determination.

The purpose of this NMP is to:

- Outline the environmental performance conditions regarding noise generated by operations, and regulatory requirements for the management of noise emissions;
- Describe Newmont's formal commitments regarding the management of noise emissions from Cadia and the CDF; and road traffic noise generated by vehicles accessing the Cadia on public roads;
- Identify actual and potential sources of noise at Cadia and CDF;
- Describe the noise monitoring and management measures that will be implemented to ensure compliance with regulatory requirements;
- Detail the management framework and mitigation actions to be taken to mitigate noise impacts;
- Provide a trigger, action, response plan (TARP) for assessing noise monitoring data against the relevant noise impact assessment criteria; and
- Describe processes for the continual improvement of environmental performance through the ongoing management of noise emissions.

The scope of this plan covers operations approved under the Cadia East Project Approval (reference number PA06_0295).

This plan does not cover activities carried out by Newmont or Cadia not included in the PA06_0295 consolidated consent.

1.3 Document structure

The structure of this management plan is generally consistent with the structure of the various other Cadia environment related management plans. This provides a consistent approach across all Cadia management plans to improve readability across documents.

Where appropriate within this document, reference to existing documents and information has been included to reduce instances of unnecessary repetition.

This management plan document includes the following sections:

- Section 1 – introductory content including an overview of Cadia operations, description of document purpose and scope, definitions used, relevant documents relevant to this management plan, and consultation undertaken.
- Section 2 – overview of regulatory requirements
- Section 3 – roles and responsibilities to ensure compliance with environmental obligations
- Section 4 – summary description of the approach taken to management and mitigation of environmental risks

¹ <https://media.caapp.com.au/enz8hc.pdf>

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- Section 5 – approach to the measurement and evaluation of the noise impacts, including reporting, complaints, incidents and non-compliances
- Section 6 – description of review and improvement measures
- Section 7 – Appendix 1

1.4 Definitions

The list of key technical terms and definitions used throughout this document are described in Table 1.

Table 1: Terms and Definitions

Term	Description
Ambient Noise	The noise associated with a given environment. Typically, a composite of sounds from many sources located both near and far where no particular sound is dominant.
Noise-sensitive land uses	Land uses that are sensitive to noise, such as residential areas, churches, schools and recreation areas.
Receiver	The noise-sensitive land use at which noise from a development can be heard.
Residence	A lawful and permanent structure erected in a land-use zone that permits residential use (or for which existing use rights under the EP&A Act apply) where a person/s permanently reside and is not, nor associated with, a commercial undertaking such as caretakers' quarters, hotel, motel, transient holiday accommodation or caravan park.
Project Noise Trigger Levels (PNTL)	Target noise levels for a particular noise-generating facility. They are based on the most stringent of the project intrusiveness noise level or the project amenity noise level.
Sleep Disturbance	Awakenings and disturbance to sleep stages.
Day Evening Night Morning Shoulder Period	7 am to 6 pm Monday to Saturday and 8 am to 6 pm on Sundays and public holidays 6 pm to 10 pm 10 pm and 7 am Sunday to Friday but to 8 pm on Sunday and public holidays mornings 6 am to 7 am
Decibel (dB)	The units of sound level and noise exposure measurement where a step of 10 dB is a ten-fold increase in intensity or sound energy and actually sounds a little more than twice as loud.
A Weighting	A standard weighting of the audible frequencies designed to reflect the response of the human ear to noise.
dB(A), dBA	Decibels A-weighted.
dB(C), dBC	Decibels C-weighted.
dB(Z), dB(L)	Decibels Linear or decibels Z-weighted.
Feasible and reasonable	Feasible relates to engineering considerations and what is practical to build. 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.
Hertz (Hz)	The measure of the frequency of sound wave oscillations per second - 1 oscillation per second equals 1 hertz.

Term	Description
LA10	The percentile sound pressure level exceeded for 10% of the measurement period with 'A' frequency weighting calculated by statistical analysis. Typically used to assess the impact of an existing operation on a receiver area and is referred to as the cumulative noise levels at the receiver attributable to the noise source.
LA90	Background Noise Level. The percentile sound pressure level exceeded for 90% of the measurement period with 'A' frequency weighting calculated by statistical analysis.
LAm _{ax}	The maximum of the sound pressure levels recorded over the measurement period.
LA1,1minute	The measure of the short duration high-level noises that cause sleep arousal. The noise level is measured as the percentile sound pressure level that is exceeded 1% of measurement period with 'A' frequency weighting calculated by statistical analysis during a measurement time interval of 1 minute.
LA _{eq,t}	Equivalent continuous sound pressure level - The value of the sound pressure level of a continuous steady noise that, a measurement interval of time (t), has the same mean square sound pressure as the sound under consideration whose level varies with time. Usually measured in dB with 'A' weighting.
L _{An}	Percentile level - A measure of the fluctuation of the sound pressure level which is exceeded 'n' percent of the observation time.
Octave	A division of the frequency range into bands, the upper frequency limit of each band being twice the lower frequency limit.
1/3 Octave	Single octave bands divided into three parts.
Sound Pressure Level	The basic measure of noise loudness. The level of the root-mean-square sound pressure in decibels given by: $SPL = 10 \cdot \log_{10} (p/p_0)^2$ where p is the rms sound pressure in pascals and p ₀ is the sound reference pressure at 20 uPa db.
Sound Power Level	A measure of the energy emitted from a source as sound and is given by: $SWL = 10 \cdot \log_{10} (W/W_0)$ where W is the sound power in watts and W ₀ is the sound reference power at 10-12 watts.
Temperature Inversion	An atmospheric condition in which temperature increases with height above the ground.

1.5 Related documents

1.5.1 Company documents

This NMP should be read in conjunction with the following related company documents:

- Cadia Environmental Management Strategy (CEMS)²
- Cadia Management Plans, Reports and Monitoring documents^{3,4}
- Newmont Policies and Standards⁵

1.5.2 External documents

The following industry standards, codes and guidelines apply to this NMP:

² <https://media.caapp.com.au/p861i7.pdf>

³ [Environmental management | Cadia Valley Operations | Newmont](#)

⁴ Blasting vibration and airblast overpressure is addressed in the [Blast Monitoring Program 710-005-EN-PLA-0002](#)

⁵ [Newmont Corporation - About Us - Governance and Ethics](#)

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- *Noise Policy for Industry (NPfI)*, NSW Environment Protection Authority (EPA), 2017.
- *Industrial Noise Policy (INP)*, EPA, 2000.
- *Interim Construction Noise Guideline (ICNG)*, NSW Department of Environment and Climate Change (DECC), 2009.
- *NSW Road Noise Policy (RNP)*, Department of Environment, Climate Change and Water (DECCW), 2011.
- *Approved Methods for Measurement and Analysis of Environmental Noise in NSW*, EPA, 2022.
- *Environmental Management Plans Guidelines*, Department of Environment, 2014.
- *Australian Standard AS 1055-2018: Acoustics – Description and measurement of environmental noise*.
- *IEC 61672.1 Electroacoustics – sound level meters – Part 1: Specifications*, AS/NZS, 2019.

1.6 Consultation

In developing this document, consultation has been carried out with the stakeholders listed in Table 2.

Table 2: Consultation undertaken in plan development

Stakeholder	Date	Comment	Response	Method
EPA	12/03/2022	Rev.1 of document 710-005-EN-PLA-0025 prepared to replace 710-005-EN-PLA-0003	No changes required	Draft of Rev.1 submitted for consultation
DPE	28/03/2022	document 710-005-EN-PLA-0025 prepared to replace 710-005-EN-PLA-0003	Changes requested by DPE	Rev.1 of 710-005-EN-PLA-0025 submitted to Secretary for approval
DPE	22/07/2022	Updated based on DPE comments on Rev.1 dated 26/05/2022	Changes requested by DPE	Rev.2 of 710-005-EN-PLA-0025 submitted to Secretary for approval
DPE	19/04/2023	Updated based on DPE comments on Rev.2 dated 17/03/2023	Changes requested by DPE	Rev.2.1 of 710-005-EN-PLA-0025 submitted to Secretary for approval
DPE	30/11/2023	Updated based on DPE comments on Rev.2.1 dated 22/09/2023	Changes requested by DPE	Rev.2.2 of 710-005-EN-PLA-0025 submitted to Secretary for approval
EPA	28/8/2024	Request consultation with EPA on 710-005-EN-PLA-0025 as directed by DPHI	Minor edits related to the requirements of EPA 5590	Draft of Rev. 3 of 710-005-EN-PLA-0025 submitted for consultation
EPA	16/07/2025	Request consultation with EPA on 710-005-EN-PLA-0025 Revision 3.6	Minor edits related to EPL 5590 issued on 10/07/2025	Draft of Rev. 3.6 of 710-005-EN-PLA-0025 submitted for consultation

2 REGULATORY REQUIREMENTS

2.1 Commonwealth

Approval for the Cadia East Project (reference number EPBC 2006/3196⁶) under Section 130(1) and 133 of the Commonwealth Environment Protection and Biodiversity Conservation Act 1999 was granted on 18 February 2010. Refer to the CEMS for additional information on the EPBC Act approval.

2.2 Development Consent (Project Approval 06_0295)

As described in Section 1.1, approval for the project (PA 06_0295) was obtained under the EP&A Act. Details of the modifications made since the original project consent was granted in 2010 can be found in the CEMS and under the ‘approvals’ section of the Newmont Cadia webpage⁷. The consolidated consent⁸ contains the requirements of the original approval along with the approved modifications (MOD 1 through to MOD 15).

A summary of the specific conditions of the project approval relevant to this NMP are listed in Table 3. This table also includes conditions from approved modifications to the original development consent. Reference to the relevant section of this NMP where the commitment has been addressed is also provided in Table 3 along with a brief outline of approach and links to relevant Cadia operational protocols.

2.3 Environmental Protection Licence

Environmental Protection Licence (EPL) (number 5590) was obtained for the project under Section 55 of the Protection of the Environment Operations Act 1997. The EPL⁹ contains a range of conditions pertaining to environmental management. EPL conditions that are relevant to the NMP are summarised in Table 4, along with reference to the section of this document where the condition is addressed, summary of approach, and relevant links to applicable Cadia operational protocols.

2.4 EA noise management and mitigation measures

The Cadia East Environmental Assessment (EA) forms part of the Cadia East Project Approval through Schedule 2 Condition 2 of PA 06_0295, where it is stated that “The proponent shall carry out the project: generally in accordance with the EA...”

The EA and subsequent Modification Applications describe a range of measures to manage and mitigate noise that have been incorporated into the design and operation of Cadia and the CDF. Unlike the Development Consent and EPL conditions in Table 3 and Table 4, the noise management and mitigation measures relate to the design and operation of Cadia and the CDF, as opposed to land use planning and regulatory approval, or environmental protection, pollution management and compliance.

2.5 Other approvals

In addition to the aforementioned project approvals, a range of other permits, licences, and approvals have been obtained for the Cadia East Project including:

- Mining Leases (ML) for ML1405, ML 1449, ML1472, ML 1481, ML1689 and ML1690 (see figure (1)).
- Local Development Consent for Black Rock Range Subdivision (Offsets property).

⁶ [Referral summary - EPBC Act Public Portal \(awe.gov.au\)](#)

⁷ [Cadia East project approval | Cadia Valley Operations | Newmont](#)

⁸ [NOTICE OF AMENDMENT OF A DEVELOPMENT CONSENT GRANTED UNDER \(caapp.com.au\)](#)

⁹ [Environmental Protection License 5590.pdf \(caapp.com.au\)](#)

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- Various historical heritage approvals and permits
- Water Access Licences (WAL): WAL 31062, WAL 31072, WAL 36229, WAL 32255, WAL 32280, WAL 31527, WAL 31517 and WAL 31505.
- Enclosure Permit number 20364.

Details of these other approvals are included in the Cadia Licences and Permits Summary document¹⁰ available on the Newmont Cadia webpage.

¹⁰ [Cadia Licences and Permits Summary.pdf \(caapp.com.au\)](#)

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Table 3: Relevant development consent PA06_0295 conditions

Condition	NMP Section	Summary of Approach	Other Protocols
Schedule 3 - Acquisition Upon Request			
1	Upon receiving a written request for acquisition from an owner of the land listed in Table 1, the Applicant must acquire the land in accordance with the procedures in conditions 5-7 of schedule 4. <i>Table 1: Land subject to acquisition upon request</i>	Section 5.11	To be acquired on request
	R01		
	210		
	<i>Note: To interpret the locations referred to in Table 1, see the applicable figures in Appendix 2 and Appendix 4.</i>		
Schedule 3 - Impact Assessment Criteria			

2	<p>The Applicant must 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.</p> <p><i>Table 2: Noise Impact Assessment Criteria dB(A) LAeq (15min)</i></p>	<p>Section 5.4 - Table 13 - Table 12</p>	<p>Attended noise monitoring is used to quantify and describe the acoustic environment around the mine and CDF. The results of the attended noise monitoring are recorded, analysed and compared with the defined noise limits to assess compliance.</p> <p>The Operational Noise TARP describes how elevated noise is responded to and recorded.</p>	<p>Operational Noise TARP (710-283-EN-STR-002)</p>
		<p>Section 5.7</p>		

<i>Location</i>	<i>Day</i>	<i>Evening</i>	<i>Night</i>	<i>Night (LA1 (1 min))</i>
Mining Operations				
2127	43	41	35	45
138	42	38	35	45
2121	42	37	35	45
2126	42	38	35	45
2128	42	38	35	45
2163	41	38	35	45
30, 38, 40, 2160	40	36	35	45
133, 208, 380	40	37	35	45
Other privately owned land	40	35	35	45
<i>Location</i>	<i>Day</i>	<i>Evening</i>	<i>Night</i>	<i>Night – excluding train horns (LA1 (1 min))</i>
CVO Dewatering Facility				
R02	40	36	36	45
Other privately owned land	40	35	35	45

Condition	NMP Section	Summary of Approach	Other Protocols								
<ul style="list-style-type: none"> • <p><i>Notes:</i></p> <ul style="list-style-type: none"> • 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, of the Noise Policy for Industry (NSW EPA, 2017), or its latest version. • The noise limits do not apply if the Applicant has an agreement with the relevant owner/s of these residences/land to generate higher noise levels, and the Applicant 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. 	-	-	-								
<p>2A The Applicant 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.</p>	-	The Noise Impact Validation Report is addressed separately to the NMP	-								
<p>2B The noise limits set out in Table 2 apply under the meteorological conditions defined in Table 2a.</p> <p><i>Table 2a: Meteorological conditions</i></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 30%;">Assessment Period</th> <th>Meteorological Conditions</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">Day</td> <td>Stability Categories A, B, C and D with wind speeds up to and including 0.5m/s at 10m above ground level</td> </tr> <tr> <td style="text-align: center;">Evening</td> <td>Stability Categories A, B, C and D with wind speeds up to and including 0.5m/s at 10m above ground level</td> </tr> <tr> <td style="text-align: center;">Night</td> <td>Stability Categories A, B, C and D with wind speeds up to and including 0.5m/s at 10m above ground level</td> </tr> </tbody> </table>	Assessment Period	Meteorological Conditions	Day	Stability Categories A, B, C and D with wind speeds up to and including 0.5m/s at 10m above ground level	Evening	Stability Categories A, B, C and D with wind speeds up to and including 0.5m/s at 10m above ground level	Night	Stability Categories A, B, C and D with wind speeds up to and including 0.5m/s at 10m above ground level	Section 5.3		
Assessment Period	Meteorological Conditions										
Day	Stability Categories A, B, C and D with wind speeds up to and including 0.5m/s at 10m above ground level										
Evening	Stability Categories A, B, C and D with wind speeds up to and including 0.5m/s at 10m above ground level										
Night	Stability Categories A, B, C and D with wind speeds up to and including 0.5m/s at 10m above ground level										
<p>2C For other meteorological conditions, the applicable noise criteria are as defined in Table 2 plus 5 dB.</p>	Section 5.3										

Schedule 3 - Land Acquisition Criteria

Condition	NMP Section	Summary of Approach	Other Protocols																																
<p>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 Applicant must, 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.</p> <p><i>Table 3: Land acquisition criteria dB(A) LAeq (15min)</i></p> <table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th style="width: 35%;">Location</th> <th style="width: 15%;">Day</th> <th style="width: 15%;">Evening</th> <th style="width: 15%;">Night</th> </tr> </thead> <tbody> <tr> <td colspan="4">Mining Operations</td> </tr> <tr> <td>All privately-owned land</td> <td>43</td> <td>43</td> <td>40</td> </tr> <tr> <td colspan="4">CVO Dewatering Facility</td> </tr> <tr> <td>R03</td> <td>45</td> <td>44</td> <td>40</td> </tr> <tr> <td>R04</td> <td>45</td> <td>41</td> <td>40</td> </tr> <tr> <td>R02, R05, R06</td> <td>44</td> <td>40</td> <td>40</td> </tr> <tr> <td>R07</td> <td>43</td> <td>43</td> <td>40</td> </tr> </tbody> </table> <p><i>Note: Noise generated by the project is to be measured and evaluated in accordance with the relevant requirements of the Noise Policy for Industry (NSW EPA, 2017), or its latest version. The noise limits set out in Table 3 only apply under the meteorological conditions defined in Table 2a.</i></p>	Location	Day	Evening	Night	Mining Operations				All privately-owned land	43	43	40	CVO Dewatering Facility				R03	45	44	40	R04	45	41	40	R02, R05, R06	44	40	40	R07	43	43	40	<p>Section 5.4 - Table 12 - Table 13 Section 5.11.3</p>	<p>-</p>	<p>-</p>
Location	Day	Evening	Night																																
Mining Operations																																			
All privately-owned land	43	43	40																																
CVO Dewatering Facility																																			
R03	45	44	40																																
R04	45	41	40																																
R02, R05, R06	44	40	40																																
R07	43	43	40																																
Schedule 3 - Cumulative Noise Criteria																																			
<p>4 The Applicant must 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.</p>	<p>Section 4.2 Table 7</p>	<p>Identified as risk scenario and initially addressed through monitoring</p>	<p></p>																																

Condition	NMP Section	Summary of Approach	Other Protocols
Schedule 3 - Operating Hours			

6	The Applicant must comply with the operating hours in Table 6. <i>Table 6: Operating Hours</i>			Section 4.1 Table 6	Cadia and CDF are operated in accordance with the operating hours outlined in PA 06_0295	-
	Activity	Day	Time			
	Construction					
	Rodds Creek water holding dam raise; tailings storage facilities raises and embankment extensions; new pipelines; NaHS Solutioning Plant construction; realignment of Panuara Road	Any Day	Day			
	Cadia East underground mine development; upgrade of ore processing facilities; NTSF repair works	Any Day	Any Time			
	Buttressing of the NTSF and STSF embankments; hydrocyclone sands tailings pilot plant	Monday – Saturday	7 am – 10 pm			
		Sunday and Public Holidays	8 am – 10 pm			
	Hydrocyclone tailings sands test embankments	Any day	7 am – 10 pm			
	Dewatering facilities	Monday – Friday	7.00am to 6.00pm			
		Saturday	8.00am to 1.00pm			
		Sunday and Public Holidays	None			
	Operation					
Mine complex operations; Dewatering facilities, including train arrival and departure at the CVO Dewatering Facility	Any Day	Any Time				
Blayney Dewatering Facility – train loading	Any Day	7.00am to 7.00pm				

Condition			NMP Section	Summary of Approach	Other Protocols
CVO Dewatering Facility – train loading	Any Day	Day			
<i>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.</i>					
Schedule 3 - Additional Noise Mitigation Measures					

Condition	NMP Section	Summary of Approach	Other Protocols
<p>7 Upon receiving a written request from:</p> <ul style="list-style-type: none"> • the landowner of the properties identified as: <ul style="list-style-type: none"> ○ R01 (unless the landowner has requested acquisition); or ○ R02; or ○ 210 (unless the landowner has requested acquisition); or ○ 2127; or ○ 138; or ○ 2126; or ○ 2128; or ○ 2163; or • Deleted, • 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, <p>the Applicant must 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.</p> <p>These additional mitigation measures must be reasonable and feasible.</p> <p>If within 3 months of receiving this request from the landowner, the Applicant 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.</p> <p>Within 3 months of this approval, the Applicant must notify all applicable landowners that they are entitled to receive additional noise mitigation measures, to the satisfaction of the Secretary.</p>	Section 5.11	Additional feasible and reasonable mitigation measure will be implemented if they are directly related to the mitigation of noise impacts from the Cadia operations	-
Schedule 3 - Noise Operating Conditions			
8			

Condition	NMP Section	Summary of Approach	Other Protocols
<p>8 The Applicant must:</p> <p>(a) take all reasonable and feasible best practice steps to minimise:</p> <p style="padding-left: 20px;">(i) noise from construction and operational activities as well as road noise associated with the project (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;</p> <p style="padding-left: 20px;">(ii) the noise impacts of the project during noise-enhancing meteorological conditions; and</p> <p style="padding-left: 20px;">(iii) impacts from annoying noise characteristics including low frequency noise;</p> <p>(b) operate a comprehensive noise management system that uses a combination of predictive meteorological forecasting and real-time noise monitoring data to guide the day to day planning of mining operations and the implementation of both proactive and reactive noise mitigation measures to ensure compliance with the relevant conditions of this approval;</p> <p>(c) regularly assess the real time noise monitoring data, and modify or stop operations on the site to ensure compliance with the relevant conditions of this approval;</p> <p>(d) carry out regular attended noise monitoring at least once every two months from approval of Modification 15, unless otherwise agreed by the Secretary, to determine whether the project is complying with the relevant conditions of this approval;</p> <p>(e) record the daily adaptive management measures implemented on the site, including how operations were modified or stopped to comply with the noise criteria in Table 2, and make these records readily available at the request of the Secretary or the EPA; and</p> <p>(f) report on the activities listed in items (a) to (e) above (inclusive) and the implementation and effectiveness of these measures in the Annual Review.</p>	<p>Section 4.2 Table 7</p> <p>Section 5.7</p> <p>Section 5.5.1</p> <p>Section 4.5</p> <p>Section 5.4.3</p> <p>Section 5.5.1</p> <p>Section 5.1</p> <p>Section 4.4</p> <p>Table 8</p> <p>Table 19</p>	<p>Management and mitigation measures to reduce risk associated with noise</p> <p>Road Traffic monitoring program</p> <p>Performance management using unattended real-time continuous monitors</p> <p>The Operational Noise TARP describes how elevated noise is responded to and recorded.</p> <p>Monitoring program schedule</p> <p>As approved by DPHI via letter correspondence in January 2022, Cadia will submit their Annual Review no later 31 October each year.</p>	<p>Operational Noise TARP (710-283-EN-STR-002)</p> <p>Offsite Traffic Management Plan (710-005-EN-PLA-0023)</p>
Schedule 3 - Noise Management Plan			

Condition	NMP Section	Summary of Approach	Other Protocols
<p>9 The Applicant must prepare a detailed Noise Management Plan for the project to the satisfaction of the Secretary. This plan must:</p> <p>(a) be prepared by a suitably qualified, experienced and independent person, and in consultation with EPA;</p> <p>(b) describe measures that would be implemented to ensure compliance with conditions 2-8 of this schedule, including a trigger action response plan based on noise complaints, real time and attended noise monitoring and measures to reduce sleep disturbance impacts to receivers surrounding the CVO Dewatering Facility, particularly regarding train horn noises;</p> <p>(c) describe the measures to minimise road traffic noise generated by the project on public roads;</p> <p>(d) include a noise monitoring program that:</p> <ul style="list-style-type: none"> • 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). 	<p>Appendix A Sections 4.2, 4.5, 5.9, 5.11, 5.4 and 5.5</p> <p>Section 5.7</p> <p>Sections 5.4 and 5.5</p> <p>Section 5.4</p> <p>Section 5.8 Table 19</p> <p>Section 6</p> <p>Table 7 Sections 5.5.3</p>	<p>The NMP describes a compliance assessment component based on an attended noise monitoring program and a performance management program using unattended real-time continuous noise monitors.</p> <p>The Operational Noise TARP describes how elevated noise is responded to and recorded.</p> <p>Definitions regarding incidents, material harm and incidents</p>	<p>Operational Noise TARP (710-283-EN-STR-002)</p>
<p>9A The Applicant must implement the Noise Management Plan as approved by the Secretary.</p>	<p>Section 1.2</p>	<p>-</p>	<p>-</p>

Schedule 4 – Notification of Landowners				
<p>1</p>	<p>Within 1 month of the date of this approval, the Applicant must notify the owners of the land listed in Table 1 of schedule 3 in writing that they have the right to require the Applicant to acquire their land at any stage during the project.</p>	<p>Section 5.11</p>	<p>Will be acquired on request</p>	<p>-</p>

Condition	NMP Section	Summary of Approach	Other Protocols
<p>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 Applicant must, 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.</p>	<p>Section 5.10 Table 20</p>	<p>-</p>	<p>-</p>
Schedule 4 - Independent Review			
<p>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.</p> <p>If the Secretary is satisfied that an independent review is warranted, the Applicant must within 3 months of the Secretary's decision:</p> <p>(b) consult with the landowner to determine his/her concerns;</p> <p>(c) commission a suitably qualified, experienced and independent person, whose appointment has been approved by the Secretary, to conduct monitoring on the land, to:</p> <ul style="list-style-type: none"> • 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 <p>(d) give the Secretary and landowner a copy of the independent review</p>	<p>Section 5.11</p>	<p>Independent review in accordance with Schedule 4 condition 3 will be initiated on written request from the Secretary.</p>	<p>-</p>

Condition	NMP Section	Summary of Approach	Other Protocols
<p>4 If the independent review determines that the project is complying with the relevant impact assessment criteria in schedule 3, then the Applicant may discontinue the independent review with the approval of the Secretary.</p> <p>If the independent review determines that the project is not complying with the relevant impact assessment criteria in schedule 3, then the Applicant must:</p> <ul style="list-style-type: none"> (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. <p>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.</p>	Section 5.11	Schedule 4 condition 4 will be implemented when a written request from a landowner subject to the independent review required under Schedule 4 condition 4 is received.	-
Schedule 5 - Incident Notification, Reporting and Response			
<p>3 Within 3 months, unless the Secretary agrees otherwise of:</p> <ul style="list-style-type: none"> (a) the submission of an annual review under condition 2 above; (b) the submission of an incident report under condition 5 or 5A 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. <p>the Applicant must review and, if necessary, revise the studies, strategies or plans required under the conditions of approval to the satisfaction of the Secretary.</p> <p>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.</p> <p><i>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.</i></p>	Section 4.3 Section 5.10 Table 20	Improvement actions, procedures and activities would be initiated in order incorporate any recommended measures to improve the environmental performance of the mine and CDF	-

Condition	NMP Section	Summary of Approach	Other Protocols
Schedule 5 – Environmental Management Strategy			
1	The Applicant must prepare and implement an Environmental Management Strategy for the project to the satisfaction of the Secretary.		
		The NMP satisfies the requirements of the Schedule 5 condition 1 with respect to the management of noise. Refer to the Environmental Management Strategy 710-005-EN-STR-0001	
Schedule 5 – 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:		
		Section 5.10 Table 20	As approved by DPHI via letter correspondence in January 2022, Cadia will submit their Annual Review no later 31 October each year.
			-
		(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:	
		<ul style="list-style-type: none"> • 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.	-
Schedule 5 - Compliance			

Condition	NMP Section	Summary of Approach	Other Protocols
<p>5</p> <p>The Applicant must notify the Department within 24 hours of becoming aware of an incident. The notification must be made via the NSW planning portal (Major Projects) and address details of the incident including:</p> <p>(a) date, time and location;</p> <p>(b) a brief description of what occurred and why it has been classified as an incident;</p> <p>(c) a description of what immediate steps were taken in relation to the incident; and</p> <p>(d) identifying a contact person for further communication regarding the incident.</p>	<p>Section 5.10 Table 20</p>	<p>The Department will be notified in writing of any incident that affects the acoustic performance of the Cadia operations.</p>	<p>-</p>
<p>5A</p> <p>The Applicant must provide the Department with a subsequent incident report in accordance with Appendix 9 (Incident Notification and Reporting Requirements).</p>			
<p>Schedule 5 - Non-Compliance Notification</p>			
<p>5B</p> <p>Within seven days of becoming aware of a non-compliance, the Applicant must notify the Department of the non-compliance. The notification must be in writing and must be submitted via the NSW planning portal (Major Projects). The notification must identify the development (including the development application number and name), set out the condition of this approval that the development is non-compliant with, why it does not comply, the reasons for the non-compliance (if known), and what actions have been undertaken, or will be undertaken, and when, to address the non-compliance.</p> <p>Note: A non-compliance which has been notified as an incident does not need to also be notified as a non-compliance.</p>	<p>Section 5.10 Table 20</p>	<p>The Department will be notified in writing of any non-compliant noise impacts associated with the acoustic performance of the Cadia operations.</p>	<p>-</p>
<p>7</p> <p>INDEPENDENT ENVIRONMENTAL AUDIT</p> <p>Independent Environmental Audits of the project must be conducted and carried out in accordance with the <i>Independent Audit Post Approval Requirements (2020)</i> or as updated from time to time and published on the Department's website.</p>	<p>6.2.2</p>	<p>Independent Audits are conducted as per the requirements set out in the <i>Independent Audit Post Approval Requirements (2020)</i> or as updated from time to time and published on the Department's website.</p>	<p><i>Independent Audit Post Approval Requirements (2020)</i> or as updated from time to time and published on the Department's website.</p>

Condition	NMP Section	Summary of Approach	Other Protocols
<p>9 ACCESS TO INFORMATION</p> <p>Before the commencement of construction until the completion of all rehabilitation required under this approval, the Applicant must:</p> <p>(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:</p> <ul style="list-style-type: none"> • 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 Applicants response to the recommendations in any audit report; • any other matter required by the Secretary; and <p>(b) keep such information up to date, to the satisfaction of the Secretary.</p>			

Table 4: Relevant EPL 5590 conditions*

*As per licence issued on 10 July 2025, which was current at time of approval and publishing of this Management Plan.

Condition	NMP Section	Summary of Approach	Other Protocols																																								
L4 Noise limits																																											
L4.1	Noise generated at the premises must not exceed the noise limits in the table below. The locations referred to in the table below are indicated by property name and/or name of the property owner.		-																																								
	<table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th style="background-color: #e6f2ff;">Locality and Location</th> <th style="background-color: #e6f2ff;">Day - dBA LAeq(15 minute)</th> <th style="background-color: #e6f2ff;">Evening - dBA LAeq(15 minute)</th> <th style="background-color: #e6f2ff;">Night - dBA LAeq(15 minute)</th> <th style="background-color: #e6f2ff;">Night - dBA LA1(1 minute)</th> </tr> </thead> <tbody> <tr> <td style="background-color: #e6f2ff;">'Eastburn' (2127)</td> <td style="background-color: #e6f2ff;">43</td> <td style="background-color: #e6f2ff;">41</td> <td style="background-color: #e6f2ff;">35</td> <td style="background-color: #e6f2ff;">45</td> </tr> <tr> <td style="background-color: #e6f2ff;">'Argyle' (2128); 'Mayburies' (138)</td> <td style="background-color: #e6f2ff;">42</td> <td style="background-color: #e6f2ff;">38</td> <td style="background-color: #e6f2ff;">35</td> <td style="background-color: #e6f2ff;">45</td> </tr> <tr> <td style="background-color: #e6f2ff;">'Northwest' (2121)</td> <td style="background-color: #e6f2ff;">42</td> <td style="background-color: #e6f2ff;">37</td> <td style="background-color: #e6f2ff;">35</td> <td style="background-color: #e6f2ff;">45</td> </tr> <tr> <td style="background-color: #e6f2ff;">'Weemalla' (2126)</td> <td style="background-color: #e6f2ff;">42</td> <td style="background-color: #e6f2ff;">38</td> <td style="background-color: #e6f2ff;">35</td> <td style="background-color: #e6f2ff;">45</td> </tr> <tr> <td style="background-color: #e6f2ff;">Willow Creek' (2163)</td> <td style="background-color: #e6f2ff;">41</td> <td style="background-color: #e6f2ff;">38</td> <td style="background-color: #e6f2ff;">35</td> <td style="background-color: #e6f2ff;">45</td> </tr> <tr> <td style="background-color: #e6f2ff;">'Bonnie Glen' (133)</td> <td style="background-color: #e6f2ff;">40</td> <td style="background-color: #e6f2ff;">37</td> <td style="background-color: #e6f2ff;">35</td> <td style="background-color: #e6f2ff;">45</td> </tr> <tr> <td style="background-color: #e6f2ff;">Other privately owned land</td> <td style="background-color: #e6f2ff;">40</td> <td style="background-color: #e6f2ff;">35</td> <td style="background-color: #e6f2ff;">35</td> <td style="background-color: #e6f2ff;">45</td> </tr> </tbody> </table>		Locality and Location	Day - dBA LAeq(15 minute)	Evening - dBA LAeq(15 minute)	Night - dBA LAeq(15 minute)	Night - dBA LA1(1 minute)	'Eastburn' (2127)	43	41	35	45	'Argyle' (2128); 'Mayburies' (138)	42	38	35	45	'Northwest' (2121)	42	37	35	45	'Weemalla' (2126)	42	38	35	45	Willow Creek' (2163)	41	38	35	45	'Bonnie Glen' (133)	40	37	35	45	Other privately owned land	40	35	35	45	Section 5.4 - Table 12 The receiver order in Table 12 is the same as the table in L4.1
Locality and Location	Day - dBA LAeq(15 minute)	Evening - dBA LAeq(15 minute)	Night - dBA LAeq(15 minute)	Night - dBA LA1(1 minute)																																							
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Other privately owned land	40	35	35	45																																							
	Notes: For the purpose of condition L4.1: a) Day is defined as the period from: i. 7am to 6pm Monday to Saturday, and ii. 8am to 6pm on Sundays and Public Holidays; b) Evening is defined as the period 6pm to 10pm; and c) Night is defined as the period from: i. 10pm to 7am Monday to Saturday, and ii. 10pm to 8am on Sundays and Public Holidays.																																										
	The above noise limits do not apply at properties where the licensee has a written agreement with the landowner to exceed the noise limits.																																										

Condition	NMP Section	Summary of Approach	Other Protocols															
<p>L4.2 Noise generated at the CVO Dewatering Facility must not exceed the noise limits in the table below. The locations referred to in the table below are indicated by location name.</p> <table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th style="text-align: left;">Locality and Location</th> <th>Day - dBA LAeq(15 minute)</th> <th>Evening - dBA LAeq(15 minute)</th> <th>Night - dBA LAeq(15 minute)</th> <th>Night - dBA LA1(1 minute) - excluding train horns</th> </tr> </thead> <tbody> <tr> <td style="text-align: left;">261 Newbridge Road Blayney - 'Hollywood' (R02)</td> <td>40</td> <td>36</td> <td>35</td> <td>45</td> </tr> <tr> <td style="text-align: left;">Other privately owned land</td> <td>40</td> <td>35</td> <td>35</td> <td>45</td> </tr> </tbody> </table> <p>Note: For the purpose of L4.2:</p> <ul style="list-style-type: none"> a) a day is defined as the period from: <ul style="list-style-type: none"> i) 7am to 6pm Monday to Saturday, and ii) 8am to 6pm Sundays and Public Holidays; b) evening is defined as the period form 6pm to 10pm; and c) night is defined as the period from: <ul style="list-style-type: none"> i) 10pm to 7am Monday to Saturday, and ii) 10pm to 8am Sundays and Public Holidays <p>The above noise limits do not apply at properties where the licensee has a written agreement with the landowner to exceed the noise limits.</p> <p>Also for the purpose of condition L4.2, monitoring locations that refer to Newbridge Road are locations with respect to the CVO Dewatering Facility</p>	Locality and Location	Day - dBA LAeq(15 minute)	Evening - dBA LAeq(15 minute)	Night - dBA LAeq(15 minute)	Night - dBA LA1(1 minute) - excluding train horns	261 Newbridge Road Blayney - 'Hollywood' (R02)	40	36	35	45	Other privately owned land	40	35	35	45	<p>Section 5.4 - Table 13</p> <p>Additional receivers are identified in Table 13 and describe in the table notes.</p>	<p>Attended noise monitoring is used to quantify and describe the acoustic environment around the CDF. The results of the attended noise monitoring are recorded, analysed and compared with the defined noise limits to assess compliance.</p>	<p>-</p>
Locality and Location	Day - dBA LAeq(15 minute)	Evening - dBA LAeq(15 minute)	Night - dBA LAeq(15 minute)	Night - dBA LA1(1 minute) - excluding train horns														
261 Newbridge Road Blayney - 'Hollywood' (R02)	40	36	35	45														
Other privately owned land	40	35	35	45														

Condition		NMP Section	Summary of Approach	Other Protocols
L4.3	<p>The noise limits set out in the tables at conditions L4.1 and L4.2 apply under 'Standard meteorological conditions' as defined in Fact Sheet D of the Noise Policy for Industry (EPA 2017). For other meteorological conditions, the applicable noise criteria are as defined in the tables under L4.1 and L4.2 plus 5 dB.</p> <p>Note: For the purposes of condition L4.3</p> <ul style="list-style-type: none"> a) Meteorological conditions, used to determine whether relevant noise limits apply, must be sourced: <ul style="list-style-type: none"> i) for noise limits stipulated by condition L4.1, from the weather station located at licence Point 17. If Point 17 is not available, then from the weather station located at Point 18. ii) for noise limits stipulated by condition L4.2, from the weather station located at Orange Airport, Spring Hill. b) Temperature inversion conditions (stability category) are to be determined by the sigma-theta method referred to in Fact sheet D of the Noise Policy for Industry (EPA 2017). 	Section 5.3	The noise limits in Table 13 and Table 14 will apply in accordance with in accordance with the meteorological conditions in Condition L4.3 as described in Fact Sheet D of the NPfl.	-
L4.4	<p>To determine compliance with the noise limits set out in the tables at conditions L4.1 and L4.2:</p> <ul style="list-style-type: none"> a) the noise measurement equipment must be located: <ul style="list-style-type: none"> i) approximately on the property boundary, if the dwelling is situated less than 30 metres from the property boundary closest to the premises; or ii) within 30 metres of a dwelling façade, but not closer than 3 metres, where any dwelling on the property is situated more than 30 metres from the property boundary closest to the premises. b) if the noise monitoring equipment cannot be located in accordance with a) above, the noise measurement equipment must be located at the most noise affected point at the property. c) if the noise monitoring equipment cannot be located on a property as per a) or b) above, it may be located greater than 30 metres from a dwelling, but only where the monitoring location is closer to the licensed premises noise source(s), the location is more affected than the dwelling, and the licensee accepts that the limits set out under conditions L4.1 and L4.2 apply at this monitoring location. 	Section 5.4	Monitoring locations have been identified in accordance with Condition L4.4 of EPL 5590 and Section 2.6 of the NPfl.	-

Condition		NMP Section	Summary of Approach	Other Protocols
L4.5	For the purposes of determining the noise generated from the premises (including the CVO Dewatering facility) the modification factors in Fact Sheet C of the Noise Policy for Industry (NSW EPA, 2017) must be applied, as appropriate, to the noise levels measured by the noise measurement equipment.	Section 5.4 and Section 5.5	Low-frequency noise impacts and annoying noise characteristics will be assessed in accordance with the Fact Sheet C of the NPfI	-
O1 Activities must be carried out in a competent manner				
O1.1	Licensed activities must be carried out in a competent manner. This includes: a) the processing, handling, movement and storage of materials and substances used to carry out the activity; and b) the treatment, storage, processing, reprocessing, transport and disposal of waste generated by the activity	Section 4.2	Responsibilities are identified in Table 7.	-
O2 Maintenance of plant and equipment				
O2.1	All plant and equipment installed at the premises or used in connection with the licensed activity: a) must be maintained in a proper and efficient condition; and b) must be operated in a proper and efficient manner.	Section 4.2	Responsibilities are identified in Table 7.	-
M4 Environment monitoring - Noise monitoring				

Condition					NMP Section	Summary of Approach	Other Protocols	
M4.1	The licensee must undertake bi-annual noise monitoring (in-line with the reporting period) at the location and times specified by the table below for each of the noise parameters provided in the table, to determine compliance with the noise limits stipulated by conditions L4.1 and L4.2.				Section 5.4	Attended monitoring during the day, evening and night will be conducted bi-annually in accordance with EPL 5590 Condition M4.1	-	
	Locality and Location	Day - LAeq (15 minute)	Evening - LAeq (15 minute)	Night - LAeq (15 minute)				Night - LAeq (1 minute)
	Chesterfield (14); Warrengong (125); Willow Creek (2163); Northwest (2121); Rosebrook (2130); Bonnie Glen (133); 84 Newbridge Rd - Athol Gardens (R07); 261 Newbridge Rd - Hollwood (R02)	Daytime	Evening	Night				Night
Note: The above noise monitoring requirements do not apply at properties where the licensee has a written agreement with the landowner to alter noise monitoring frequency requirements.								
M4.2	The results of the noise monitoring required by condition M4.1, and an interpretation of these results, must be provided as an attachment to each corresponding years Annual Return.				Section 5.10 Table 20	An Annual Return will be submitted each year that includes a review the acoustic performance of the Cadia operations.	-	

Condition		NMP Section	Summary of Approach	Other Protocols
M4.3	The licensee, following the receipt of a noise related complaint and if required by the EPA, must undertake noise monitoring to determine compliance with the noise limits stipulated by condition L4.1 and L4.2.	Section 5.9	A complaints management protocol will be initiated following the receipt of a complaint or request from the EPA.	-
M4.4	The results of the noise monitoring required by condition M4.3, and an interpretation of these results, must be provided to the EPA within 21 days of the completion of the noise monitoring.	Section 5.10	The results of the noise monitoring completed per condition M4.3 will be reported in accordance with condition M4.4	-

3 ROLES, RESPONSIBILITIES AND TRAINING

3.1 Roles and responsibilities

The CEMS document includes general information on the responsibilities and accountabilities for environmental management at Cadia. Roles, responsibilities, and accountabilities specific to this NMP are included in Table 5.

Table 5: Responsibilities and accountabilities.

Step	Task	General Manager	Director, Environment	Lead - Environment	Lead- Social Performance	Environment and SP Teams	Operations
1	Confirm that adequate resources are available to implement the requirements of this Plan.	I	R	A	C	C	-
2	Oversee the implementation of the noise monitoring program.	-	R	A	C	I	-
3	Coordinate noise monitoring in accordance with this Plan.	-	I	C	A	R	-
4	Notify regulatory authorities and affected landowners of any noise related exceedance and undertake associated reporting.	I	R	A	C	I	-
5	Coordinate periodic reviews of this Plan.	-	R	A	C	I	-
6	Develop and maintain a protocol for assessment and response to real time noise monitoring data.	-	R	A	I	I	-
7	Coordinate investigations of noise exceedances or complaints and implementation of any relevant mitigation and controls.	I	R	A	C	I	C
8	Coordinate regular training for personnel involved with managing noise.	-	R	A	A	I	A
9	Respond to potential exceedances of noise criteria as identified by the real time noise monitoring system.	-	I	R	I	A	A
10	Review operations in response to alerts and modify or cease operations as appropriate.	-	I	R	I	A	A
11	Report on response to alerts.	-	I	I	I	R	A
12	Continually assess the need for noise control measures according to operational and climate conditions.	-	R	A	I	C	C
13	Investigations into noise exceedances, incidents or complaints.	-	R	C	C	A	I

R: Responsible – person is the individual(s) who completes the task.

A: Accountable – person is the individual who is ultimately answerable for the activity or decision.

C: Consulted

I: Informed

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3.2 Training

Generic environmental awareness training is provided to all Cadia and CDF employees and contractors through the Cadia Induction and Site Familiarisation process. Induction training references the significant environment and community risks, and the relevant emergency response procedures.

A key component of the approved CEMS is the development and implementation of a specific Environment, Social Performance and Approvals Induction package aimed at Managers, Superintendents, Supervisors and key risk and control owners. The induction package includes a specific section on noise emission risks and controls.

From time to time, workforce communication days and toolbox talks allow for discussion of the objectives and requirements of this and any other relevant Plans.

Selected site personnel whose duties directly involve the management of noise at Cadia will undertake specific training in regard to the NMP and site Operational Procedures which incorporate noise management measures and the operation of noise monitoring and meteorological monitoring systems.

This training will be annually and when there is a change in personnel in key roles.

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4 ENVIRONMENTAL RISKS, MANAGEMENT AND MITIGATION

4.1 Overview

Cadia and CDF are operated in accordance with the operating hours outlined in Schedule 3 Condition 6 of the Cadia East Project Approval, as outlined in Table 6. 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.

Table 6: Operating hours

Activity	Day	Time
Construction		
Rodds Creek water holding dam raise; tailings storage facilities raises and embankment extensions; new pipelines; NaHS Solutioning Plant construction; realignment of Panuara Road	Any day	Day
Cadia East underground mine development; upgrade of ore processing facilities; NTSF repair works	Any day	Any time
Buttressing of the NTSF and STSF embankments; hydrocyclone sands tailings pilot plant	Monday – Saturday	7 am – 10 pm
	Sunday and Public Holidays	8 am – 10 pm
Hydrocyclone tailings sands test embankments	Any day	7 am – 10 pm
Dewatering facilities	Monday – Friday	7.00am to 6.00pm
	Saturday	8.00am to 1.00pm
	Sunday and Public Holidays	None
Operation		
Mine complex operations; Dewatering facilities, including train arrival and departure at the CVO Dewatering Facility	Any day	Any time
Cadia Dewatering Facility – train loading	Any day	Day

4.2 Risk management and mitigation measures

The noise management and mitigation measures currently implemented at Cadia are presented in Table 7. The management and mitigation measures have been assigned to a responsible role with a timeframe for implementation to ensure that actions can be tracked to completion.

Broadly, the management and mitigation measures to reduce the risk associated with noise fall into the following categories:

- Ongoing daily, weekly and annual inspection and maintenance activities.

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- The proactive implementation of the monitoring, inspection and maintenance activities identified through the implementation of the noise monitoring program described in Section 0.
- The reactive management and mitigation of noise identified through the ongoing inspection and maintenance activities and/or through the noise monitoring program and/or due to noise complaints.

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Table 7: Management and Mitigation Actions

Risk Scenario	Management / Mitigation Measures	Responsibility	Timeframe	Other Related Documents
Mobile Surface Operations				
Operational noise emissions from tailings dam construction exceeds noise limits	Mobile equipment at Cadia is regularly serviced to maintain optimum operations, as per the manufacturer's requirements.	Superintendent – Mobile Fleet Mechanical	Ongoing	-
	A risk assessment is undertaken for surface operations in the vicinity of sensitive receptors, to identify mitigation measures to be implemented prior to work commencing.	Superintendent – Surface Operations	Ongoing	ECBBRA
	The Cadia Site Asset Operations Centre (SAOC) monitors noise emissions through SentineX (directional noise monitors).	Superintendent - SAOC	Ongoing	-
	Tailings dam construction activities occur only during day shift, as per the Cadia East Project Approval.	Superintendent – Tailings Construction	Daily	-
	The Noise TARP is updated as required to consider the location of sensitive receivers and weather conditions likely to enhance noise impacts and changes in operating conditions. Construction activities may be relocated, postponed or substituted based on the Noise TARP (710-283-EN-STR-002).	Lead – Environment	Minimum Annually	Noise TARP (710-283-EN-STR-002)
Noise emissions from machinery or load and haul operations exceeds noise limits	Mobile equipment at Cadia is regularly serviced to maintain optimum operations, as per the manufacturer's requirements.	Superintendent – Mobile Fleet Mechanical	Ongoing	-
	Sound Power Level testing of surface HME	Lead - Environment	Ongoing	-
	A risk assessment is undertaken for surface operations in the vicinity of sensitive receptors, to identify mitigation measures to be implemented prior to work commencing.	Superintendent – Surface Operations	Ongoing	ECBBRA
	The Cadia Site Asset Operations Centre (SAOC) monitors noise emissions through SentineX (directional noise monitors).	Superintendent - SAOC	Ongoing	-
	Heavy equipment is not operated at night (10 pm -7 am Monday to Friday, 10 pm – 8 am Sunday) south of the Southern Waste Rock Dump. Communicated to staff via knowledge and signage.	Superintendent – Surface Operations	Daily	-

Risk Scenario	Management / Mitigation Measures	Responsibility	Timeframe	Other Related Documents
	Shrouding of key noise sources (gearboxes, electric motors, crushers), sheds and buildings (acoustic lining).	Lead – Environment	Ongoing	-
Cadia East Underground Mine				
Vent fans (Surface Infrastructure) noise emissions become a dominant noise source contributor	Engineering controls (e.g. mufflers) are installed and maintained on surface vents to reduce noise emissions.	Superintendent – CE Underground Maintenance	Ongoing	-
	The Cadia Site Asset Operations Centre (SAOC) monitors noise emissions through SentineX (directional noise monitors).	Superintendent - SAOC	Ongoing	-
	Regularly maintain engineering controls and underground ventilation fans.	Superintendent – CE Underground Maintenance	Ongoing	-
Processing Plants				
Operational noise emissions from the ore processing plant become a dominant noise source contributor with the potential to exceeds noise limits	Components of the fixed plant which emit noise are maintained to mitigate noise emissions.	Superintendent – Surface Fixed Plant Mechanical	Ongoing	-
	Engineered noise controls fitted to the fixed plant are functioning as designed during operation of the fixed plant.	Superintendent – Fixed Plant Mechanical	Daily	-
	The Cadia Site Asset Operations Centre (SAOC) monitors noise emissions through SentineX.	Superintendent - SAOC	Ongoing	-
	CHPL to implement the existing noise management and monitoring measures described in this Plan..	Superintendent - SAOC	Ongoing	-
	Noise attenuation work is undertaken on properties where noise levels are 3 to 5 dB(A) above relevant noise criteria, or an impact agreement is entered into with the Landholder.	Superintendent - SAOC	Ongoing	-
Operational noise emissions from the Molybdenum Plant	Components of the Molybdenum Plant which emit noise are maintained to mitigate noise emissions.	Superintendent – Fixed Plant Mechanical	Ongoing	-

Risk Scenario	Management / Mitigation Measures	Responsibility	Timeframe	Other Related Documents
become a dominant noise source contributor				
Cumulative Noise				
Operational noise emissions from Cadia plus noise contributions from other mines and industries will potentially exceed cumulative noise limits	The attended noise monitoring program will include the assessment of cumulative noise from the Cadia operations and other mines and industries in the region.	Lead – Environment	Ongoing	-
	Reasonable and feasible measures will be implemented to ensure that cumulative industrial noise from the Cadia operations plus other mines and industries in the region does not exceed the amenity criteria in Table 4 of PA 06_0295.	Lead – Environment	Ongoing	-
Cadia Dewatering Facility				
Noise emissions from trains and train loading exceeds noise limits	Trains are loaded during daytime hours only as per the Cadia East Project Approval.	Superintendent – Ore Treatment Production	Daily	-
Noise emissions from mobile and fixed plant become a dominant noise source contributor with the potential to exceeds noise limits	Mobile equipment at the CDF is serviced to maintain optimum operations, as per the manufacturers requirements.	Superintendent – Mobile Maintenance	Ongoing	-
	Low noise emission container loaders are utilised at the Cadia Dewatering Facility.	Superintendent – Ore Treatment Production	Daily	-
	Noise attenuation work is undertaken on properties where noise levels are 3 to 5 dB(A) above relevant noise criteria, or an impact agreement is entered into with the Landholder.	Superintendent - SAOC	Ongoing	-
Construction Projects				
Noise emissions from plant and machinery	Specific project-based risk assessment for construction activities are undertaken to manage noise emissions.	Superintendent – Projects	Ongoing	-
	Noise emission sources and compliance with the compliance conditions is included in all project based risk assessments.	Superintendent – Projects	Ongoing	-

Risk Scenario	Management / Mitigation Measures	Responsibility	Timeframe	Other Related Documents
	Construction of the NaHS Plant only occurs during day shift, as per the Cadia East Project Approval.	Superintendent – Projects	Daily	-
Offsite Traffic Noise				
Noise from the offsite traffic generated by the Cadia operations exceeds the road traffic noise criteria	Incentives for workers to carpool are used to educate the workforce about the noise impact associated with offsite traffic noise.	Lead – Social Performance	Ongoing	Offsite Traffic Management Plan (710-005-EN-PLA-0023)
	Where operational periods which increase workforce numbers (i.e. shutdowns), workers who can productively work from home are asked to do so to minimise offsite traffic noise.	Director, Environment	Ongoing	
	Noise attenuation work is undertaken on properties impacted by offsite traffic noise, or an impact agreement is entered into with the Landholder. The trigger for assessing offsite traffic noise impacts includes noise complaints, observation and feedback from the attended noise monitoring program or as part of the triennial Traffic Monitoring Program described in the Offsite Traffic Management Plan (OTMP).	Lead – Social Performance	Ongoing	
Social Performance				
Complaint management.	Management of Community Concerns, Complaints & Grievances Procedure (710-005-CR-PRO0007)	Lead – Social Performance	Ongoing	Management of Community Concerns, Complaints & Grievances Procedure (710-005-CR-PRO0007)
	Routine information about community concerns and social licence obligations in workforce communications.	Lead – Social Performance	Ongoing	-
	Noise monitoring to be undertaken in accordance with the noise monitoring programme (Section 5.4) to assess compliance with noise criteria.	Lead – Social Performance Lead – Environment	Ongoing	-

Risk Scenario	Management / Mitigation Measures	Responsibility	Timeframe	Other Related Documents
	Investigation into noise related complaints and exceedances of criteria to be undertaken in accordance with this Plan (Section 5.4).	Lead – Social Performance Lead – Environment	Ongoing	-

4.3 Improvement actions

Continual improvement is a key aspect of the Cadia Environment Management System. The improvement actions are the steps forward to achieve continual improvement. Continual improvement requires that:

- Emerging environment, social performance and approvals risks are identified, risk assessed, and controls incorporated into management plans and work programs.
- Cadia maintains a risk register that includes the identification of noise emission risks (refer Section 4.2).
- Trends in environmental (i.e. monitoring data) or social performance data that may indicate an emerging issue or risk are identified and, as appropriate, corrective actions incorporated into management plans and work programs.
- Improved noise management and mitigation measures identified, and the actions implemented in Section 4.2 are embedded into management processes.
- Community complaints and non-compliances are entered as 'incidents' into Cadia's incident management system (CHESS). Incidents are investigated and controls implemented to prevent reoccurrence.

As part of continual improvement process, which is a key aspect of the CEMS, actions have been identified to enhance the performance of management and mitigation measures. The CEMS includes a detailed description of the continual improvement process which is applied to all Cadia Management Plans.

Improvement actions, procedures and activities relating to noise are presented in Table 8. The improvement actions identified in Table 8 are committed to and their effectiveness reported on in the Annual Review and future revisions of this NMP.

Improvement actions, procedures and activities may also be initiated in accordance with Schedule 5 condition 3 in order to update the strategies, plans and programs in the NMP on a regular basis, and incorporate any recommended measures to improve the environmental performance of Cadia and the CDF. This ensures the NMP is reviewed, and if required updated, following the submission of an Annual Review, an Incident Report, an Audit, a modification approval or as a direction of the Secretary.

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Table 8: Improvement Action Plan

Improvement Action	Responsibility	Timeframe	Other Related Documents
Investigate ways to reduce the noise generated by offsite traffic, as required by the Project Approval (Schedule 3, Condition 8). The implementation and effectiveness of this measure will be reported on in the Annual Review.	Director, Environment	30 June 2025	
Investigate ways to reduce the noise generated by rail, as required by the Project Approval (Schedule 3 Condition 8). The implementation and effectiveness of this measure will be reported on in the Annual Review.	Superintendent – Ore Treatment Production	30 June 2025	-
Investigate ways to reduce the noise generated by the Project, including maximum noise levels which may result in sleep disturbance.	Director, Environment	Ongoing	MOD15 Noise Impact Assessment Mod 16 Application
Update the CDF Environment Management Plan and Train Loading Work Instruction to instruct personnel on loading trains to comply with requirement to load trains during day hours only (as defined by consent conditions) and minimising noise at all times.	Superintendent – Ore Treatment Production	Completed	710-005-EN-PLA-0018 Cadia Dewatering Facility Environmental Management Plan 730-322-OP-SWP-0003 Safe Work Procedure- DEWAT- Container Handler Operation- Train Loading Blayney General Induction
Update mobile plant, crushers, electric motors and conveyor gearboxes and other key equipment selection criteria to include noise emissions as a consideration when purchasing new equipment.	Superintendent – Mobile Fleet Maintenance Superintendent – Ore Treatment Production Superintendent – Fixed plant maintenance	30 September 2024	-

Improvement Action	Responsibility	Timeframe	Other Related Documents
	Superintendent – Final Product		
Include noise emissions controls in mobile heavy equipment operator training and competency-based assessments.	Superintendent – Training	Ongoing	-
Annual workforce communication on community concerns and workforce responsibilities.	Lead – Social Performance	Annually	-
Develop weather forecast system to identify weather conditions conducive to increased noise emissions at receiver locations.	Lead – Environment	Completed	Noise TARP (710-283-EN-STR-002)
Following the implementation of a proactive environmental monitoring system (e.g. EnviroSuite or similar), the Noise TARP will be updated to consider the location of sensitive receivers, and weather conditions that are likely to enhance noise impacts, alarm levels that correlate with receiver noise levels/criteria so alarms reflect imminent/actual criteria exceedances.	Lead – Environment	Completed	Noise TARP (710-283-EN-STR-002)
Further noise monitoring and modelling activities are required to determine whether a noise fence around the CDF hardstand area would effectively reduce noise emissions from the CDF	Lead – Environment	30 June 2026	-
Investigation to expand the noise monitoring network and incorporate artificial intelligence functionality into determining noise sources.	Lead- Environment	30 June 2026	Progress to be reported in the FY26 Annual Review
Investigate and where practicable apply a fleet noise mitigation strategy targeting key noise emitting equipment in line with the MOD15 noise impact assessment.	Lead- Environment	30 June 2026	Progress to be reported in the FY26 Annual Review

4.4 Objectives and targets

The key objective of the NMP is to ensure that all requirements of the Cadia East Project Approval (PA 06_0295) and Environmental Protection Licence EPL5590 relevant to noise are defined, with suitable targets and Key Performance Indicators (KPIs) assigned to a responsible person. The CEMS describes the process for establishing and reviewing objectives and targets.

With reference to the site-specific noise risks discussed in Section 4.2, objectives and targets have been developed to assist measuring environmental performance as it relates to noise emissions. The KPIs in Table 9 for operational noise compliance, Table 10 for offsite traffic noise management and Table 11 for community complaints are linked to these objectives and targets to evaluate the effectiveness of the noise management system as required by Schedule 3, Condition 9(d) of PA 06_0295.

Performance against the objectives in Table 9, Table 10 and Table 11 will be reported in the Annual Review.

Where performance does not meet the minimum standard, actions to improve performance will be developed, included the improvement action plan (refer to Table 8) and in the Annual Review and included in future revisions of this plan. The standard of the overall performance is ensuring conditions are implemented to the satisfaction of the Secretary.

Table 9: Objective 1 - Operational Noise Compliance

Objective 1 - Operational Noise Compliance	
Consistently meet all compliance requirements relating to operational noise emissions. Where there are no reasonable or feasible control measures, mitigation of noise emissions to the satisfaction of the landholder.	
Targets	Key Performance Indicators
<ol style="list-style-type: none"> 1. No exceedances of the Cadia East Project Approval and Environmental Protection Licence noise limits (refer to Table 3 and Table 4). 2. Negotiated agreements ¹¹ (including noise mitigation works) are offered to all private landholders impacted by Cadia Operational Noise. 	<ul style="list-style-type: none"> • Reduction in reported operational noise incidents and non-compliances on an annual basis.
Strategies	Responsible Role(s)
<ul style="list-style-type: none"> • Noise Measurement and Evaluation (Section 0). • Implementation of Noise TARP (710-283-EN-STR-002). 	<ul style="list-style-type: none"> • Manager – Ore Treatment Production. • Manager – Mining. • Director, Environment.

¹¹ The RACI system maintained by Cadia identifies the process and those **R**esponsible, **A**ccountable, **C**onsulted and/or **I**nformed for/on the identification, assessment, negotiation and implementation of noise mitigation works.

Table 10: Objective 2 – Offsite Traffic Noise

Objective 2 – Offsite Traffic Noise	
Consistently meet all compliance requirements relating to offsite traffic noise emissions. Where there are no reasonable or feasible control measures, mitigate to the satisfaction of the landholder.	
Targets	Key Performance Indicators
<ol style="list-style-type: none"> No exceedances of the Cadia East Project Approval and Environmental Protection Licence noise criteria (refer to Table 3 and Table 4). Noise mitigation works are implemented at all impacted (refer to Table 9) properties, in agreement with the Landholder. 	<ul style="list-style-type: none"> Reduction in traffic noise incidents and non-compliances on an annual basis. Landholders of properties on Forest Road, Cadia Road, Orchard Road, Four Mile Creek Road, Woodville Road and Panuara Road may submit a request for additional noise mitigation measures, subject to confirmation of the noise impacts, to be completed within 3 months (from time of request). Traffic noise mitigation works are offered to 100% of landholders where noise impact assessment is validated, where mitigation measures are reasonable and feasible.
Strategies	Responsible Role(s)
<ul style="list-style-type: none"> Measurement and Evaluation (Section 0). Implementation of Noise TARP (710-283-EN-STR-002). 	<ul style="list-style-type: none"> Director, Environment.

Table 11: Objective 3 – Community Complaints

Objective 3 – Community Complaints	
Work with the Community Consultation Committee to resolve any noise related community concerns or complaints to the satisfaction of the Landholder.	
Targets	Key Performance Indicators
<ol style="list-style-type: none"> No community complaints received relating to noise, attributable to operations at Cadia, the CDF or offsite traffic associated with the Cadia operations Noise data related to community complaints is provided to the Community Consultive Committee quarterly and posted on the Cadia Valley website monthly. 	<ul style="list-style-type: none"> Reduction in community complaints regarding noise, on an annual basis. Community complaints are addressed in compliance with the Management of Community Concerns, Complaints & Grievances Procedure. Complaints resolved at time of phone call, otherwise immediate follow up and instigate actions are required.
Strategies	Responsible Role(s)
<ul style="list-style-type: none"> Measurement and Evaluation (Section 0) Management of Community Concerns, Complaints & Grievances (710-005-CR-PRO-0010). Community Complaints Hotline. Implementation of Noise TARP (710-283-EN-STR-002) 	<ul style="list-style-type: none"> Director, Environment.

4.5 Trigger Action Response Plan (TARP)

As required by Schedule 3, Condition 9 of the Cadia East Project Approval, a Noise Trigger Action Response Management Plan (the Noise TARP) has been established to outline the process for responding to the identification of elevated noise emissions (Cadia Noise TARP 710-283-EN-STR-0002).

The Noise TARP has been developed to provide mitigation measures, responsibilities and management for potential impacts as a result of operational activities. Where a Noise TARP is triggered, the Noise TARP defines the minimum set of actions required by workers in response to a deviation from normal working conditions with the purpose to avoid an impact or non-compliance.

The Noise TARPs are used by Cadia to demonstrate the relationship between conditions in:

- a low risk environment (normal operations);
- a moderate risk environment; and
- a high risk environment

The relationship to the triggers are both through proactive and preventative management measures and reactive management measures.

The Noise TARP is continually optimised as the understanding of each trigger event improves and more information becomes available. Updates of the operational components of the Noise TARP may be made and implemented without updating this Noise Management Plan.

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All TARP triggers are shown below:

Trigger Categories	Low Risk Conditions	Moderate Risk TARP Triggers	High Risk TARP Triggers
Real-time Performance Management Noise Monitoring TARP Trigger (Sentinex/Envirosuite)	Real-time noise levels are measured as compliant with Noise Management Group (NMG) criteria.	Measured mine noise is equal to Noise Management Group (NMG) criteria for 15-minute period; and Review audio for mine noise contributions and refer to flowchart for machine specific measures as required	Measured mine noise is equal to, or exceeds, Noise Management Group (NMG) criteria for two 15-minute periods;
Noise Complaint	Complaint not related to current operational period, no immediate action possible. Follow complaint management protocol	Complaint related to current operational activities Review audio for mine noise contributions and refer to flowchart for machine specific measures as required	Two or more complaints related to current operational activities Review audio for mine noise contributions and refer to flowchart for machine specific measures as required Escalation for additional monitoring to confirm measured noise levels if mine contributions undefined by real-time monitoring
WeatherZone / Envirosuite Forecast	Unstable and Neutral PGSC: A-D Wind Speed > 5 m/s Lapse Rate <1.5 deg/100m	Stable PGSC: E Wind Speed 0.5-5 m/s Lapse Rate >1.5 <4 deg/100m	Very stable PGSC: F-G Wind Speed <0.5 m/s Lapse Rate >4 deg/100m
Attended Compliance Assessment	Attended noise monitoring assesses operational noise per Compliance Assessment Protocol 1st measurement more than 5 dB below the noise limit 1st measurement within 5 dB, take 2nd measurement 1st measurement within 5 dB, 2nd measurement compliant 1st measurement within 5 dB, take 2nd measurement 2nd measurement above noise limit, take 3rd measurement 3rd measurement compliant, confirm with 4th measurement 3rd and 4th measurement compliant, noise levels compliant	Attended noise monitoring assesses operational noise per Compliance Assessment Protocol 1st measurement above noise limit, take 2nd measurement 2nd measurement compliant, confirm with 3rd measurement 2nd and 3rd measurement compliant, noise levels compliant 1st measurement above noise limit, take 2nd measurement 2nd measurement above noise limit, take 3rd measurement 3rd measurement compliant, confirm with 4th measurement 3rd and 4th measurement compliant, noise levels compliant	Attended noise monitoring assesses operational noise per Compliance Assessment Protocol 1st measurement within 5dB, take 2nd measurement 2nd measurement above noise limit, take 3rd measurement 2nd and 3rd measurement above limit 1st measurement above noise limit, take 2nd measurement 2nd measurement above noise limit, take 3rd measurement 2nd and 3rd measurement above limit 1st measurement exceeds the noise limit by more than 5 dB

			<p>2nd measurement taken to establish if the high noise level is sustained. No change to statement of exceedance</p> <p>An incident report will be submitted to the Department in accordance with Appendix 9 of PA 06_0295 and as described in Table 19</p>
Response	<p>Normal operating conditions. Preventative measures actioned to reduce risk of noise event (see Table 7). Dependent on role and work area, this may include:</p> <ul style="list-style-type: none"> • Ensure effective engineered noise controls fitted to fixed and mobile plant to reduce noise emissions • Ensure preventative maintenance activities are undertaken • Operational hours for activities (see Table 6) communicated and understood 	<p>Considered a “Watch and Act” trigger. Supervisors and Superintendents must be on alert to act immediately if conditions deteriorate. Dependent on role and work area, the following actions may be required:</p> <ul style="list-style-type: none"> • Ensure resources are on standby • Ensure weather forecasts reviewed in planning activities • Inspect work areas and allocate resources • Communicate noise risk to workforce • Evaluate non-essential work if visual dust or monitoring data is triggered 	<p>Highest level of alert.</p> <p>Mitigation needs to be actively applied to areas where noise is being generated. Work fronts to be reconsidered (reduce intensity/ postpone activities). Dependent on role and work area, the following actions may be required:</p> <ul style="list-style-type: none"> • Ensures additional resources are allocated to respond • Alter activities of any offending work areas until noise is under control • Cease non-essential work until high risk TARP is downgraded
Notifications	<p>No escalation required, maintain normal operating conditions</p>	<p>Supervisor notified and in turn notifies their teams of Moderate TARP trigger</p> <p>Superintendents notified of Trigger.</p>	<p>Department Manager notified- oversee response.</p> <p>Superintendent and Supervisor notified- coordinate response.</p>

5 MEASUREMENT AND EVALUATION

5.1 Monitoring program design

The Consolidated Approval PA 06_0295 (PA 06_0295) for Cadia East Mine (the mine) and the Cadia Dewatering Facility (CDF) requires the preparation of a NMP that:

- describes the measures implemented to ensure compliance with Conditions 2 to 6 of Schedule 3 including a trigger action response plan based on noise complaints, real time and attended noise monitoring.
- includes a noise monitoring program that uses a combination of real-time and supplementary attended monitoring measures to evaluate the performance of the project.

The design of the compliance assessment component of the noise monitoring program is based on the following requirements and guidelines:

- Schedule 3 Condition 2 of PA 06_0295 requires that: "Noise generated by the project is to be measured in accordance with the relevant requirements of the Noise Policy for Industry (NSW EPA, 2017), or its latest version".
- Section 7.1 of the NPfl states: "The preferred method of determining compliance with a noise limit is operator-attended direct measurement of noise at a location identified for compliance, using a sound level meter".
- The NPfl also notes:
 - o In Section 7.1: "Where direct measurement of noise at a compliance location is not practical because of poor signal-to-noise ratios or where access to the location has been denied or is unavailable, measurements at intermediate locations between the source and the receiver location, where signal-to-noise ratios are higher, may be a viable option".
 - o In Section 7.1: "compliance assessment resources should generally be focused on sensitive times of operation, for example, the night-time period".
- The Approved Methods notes:
 - o In Section 2.6: "Noise measurement for ensuring compliance with the conditions of an environment protection licence, notice or statutory instrument must be carried out at the location specified in the relevant environment protection licence, notice or statutory instrument".
 - o In Section 2.8: "Measurements to determine compliance with noise limits referenced in a statutory instrument must take into consideration any correction for annoying noise characteristics where these are identified. The appropriate procedure is set out in fact sheet C of the Noise Policy for Industry".
 - o In Section 3.1, that measurements should only be taken: "when meteorological conditions are appropriate (e.g. within the range of meteorological conditions specified in any applicable licence, approval, consent, notice or policy)."
 - o In Section 3.1, measurements should be taken at suitable locations where: "the measurement will be representative of noise source(s) of interest at an identified noise-sensitive receiver or assessment location".

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The design of the performance management component of the noise monitoring program using unattended real-time continuous noise monitors is based on the following requirements and guidelines:

- Schedule 3 Condition 9 of PA 06_0295 requires the preparation of a : "(d) a noise monitoring program that: [p1] uses a combination of real-time and supplementary attended monitoring measures to evaluate the performance of the project".
- Section 7.1 of the NPfl notes: " Unattended continuous noise monitoring can be used effectively as a noise management tool for many mining projects. It generally involves the deployment of continuous noise monitoring equipment at intermediate locations where relationships with noise at a compliance location have been established".

5.2 Noise criteria

Noise criteria are set for day, evening and night time periods and are expressed as LAeq,15minute and LA1,1minute limits (refer to Section 1.4 for definitions). Noise criteria are specified in the relevant conditions of PA 06_0295 and EPL 5590. The LA1,1minute¹² metric is used as a measure of potential sleep disturbance.

The noise criteria for the mine and the CDF are provided in Table 12 and Table 13 respectively.

Condition L4.1 and L4.2 of EPL 5590 note that the noise limits do not apply if Cadia has a written agreement with the landowner to exceed the noise limits.

5.3 Meteorological conditions

The noise limits apply under standard and noise-enhancing meteorological conditions (as defined in the NPfl). For the mine, the weather station identified as EPA Identification Point 17, will be used to determine the meteorological conditions. If this weather station cannot be used, the weather station identified as EPA Identification Point 18 may be used. For the CDF the weather station at the Orange airport at Spring Hill, will be used to determine meteorological conditions.

In accordance with Schedule B Condition 2B the noise limits in Table 12 and Table 13 apply under the following meteorological conditions:

- Wind speeds less than or equal to 0.5m/s at 10m above ground level; and
- Stability Category A, B, C or D

In accordance with Schedule B Condition 2C, a 5 dB adjustment is added to the applicable noise limit under the following meteorological conditions:

- Wind speeds greater than 0.5m/s at 10m above ground level; or
- Stability Category E, F or G

Notwithstanding the requirements of Schedule B Condition 2B, the EPL also notes specific meteorological conditions. In accordance with Condition L4.3 of EPL 5590 the noise limits in Table 12 and Table 13 apply under 'Standard meteorological conditions' as defined in Fact Sheet D of the Noise Policy for Industry (EPA 2017). For other meteorological conditions, the applicable noise criteria are as defined in the Table 12 and Table 13 plus 5 dB.

Condition L4.3 of EPL 5590 requires temperature inversion conditions (stability category) to be determined by the sigma-theta method referred to in Fact sheet D of the Noise Policy for Industry (EPA 2017).

¹² EPL 5590 Schedule 3 Condition 4.1 used LAeq,1minute as the night time sleep disturbance metric.

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It is noted that the noise limits and measurement of meteorological conditions are applicable to both attended monitoring measurements and unattended real-time continuous noise monitors.

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Table 12: Cadia Mining Operations - Noise Impact, Land Acquisition and Cumulative Criteria dB(A)

Property ID ¹	Property Address	Assigned Receptor Number	Noise Impact Assessment Criteria LAeq(15min)				Land Acquisition Criteria LAeq(15min)			Cumulative Noise Criteria LAeq(period)		
			Day	Evening	Night	Night LA1,1min	Day	Evening	Night	Day	Evening	Night
2127	1940 Four Mile Creek Road, Panuara, 2800	R5	43	41	35	45	43	43	40	50	45	40
138	2134 Four Mile Creek Road, Panuara, 2800	R3	42	38	35	45	43	43	40	50	45	40
2121	2241 Cadia Road, Errowanbang, 2791	R6	42	37	35	45	43	43	40	50	45	40
2126	2305 Four Mile Creek Road, Panuara, 2800	R10	42	38	35	45	43	43	40	50	45	40
2128	59 Lawson Road, Panuara, 2800	R9	42	38	35	45	43	43	40	50	45	40
2163	147 Hagars Lane, Forest Reefs, 2798	R16	41	38	35	45	43	43	40	50	45	40
30 38 40 2160	239 Carbine Road, Forest Reefs, 2798 1877 Errowanbang Road, Errowanbang, 2791 1842 Errowanbang Road, Forest Reefs, 2798 Carbine Road, Forest Reefs, 2798		40	36	35	45	43	43	40	50	45	40
133 208 380	482 Lawson Road, Panuara,2800 1875 Errowanbang Road, Errowanbang,2791 119 Hagars Lane, Forest Reefs, 2798	R13	40	37	35	45	43	43	40	50	45	40
Other privately owned land		-	40	35	35	45	43	43	40	50	45	40

Note: ¹ The receiver order R1 to R16 in Table 12 is consistent with the Locality and Location descriptors in EPL 5590 Table L4.1.

Table 13: Cadia Dewatering Facility - Noise Impact, Land Acquisition and Cumulative Criteria dB(A)

Property ID	Property Address ¹	Location ²	Assigned Receiver Number	Noise Impact Assessment Criteria LAeq(15min)				Land Acquisition Criteria LAeq(15min)			Cumulative Noise Criteria LAeq(period)		
				Day	Evening	Night	Night LA1,1 min	Day	Evening	Night	Day	Evening	Night
CDF_R02	261 Newbridge Road ⁵	GP Nixon & Sons ⁵	CDF R2	40	36	36	45	44	40	40	50	45	40
CDF_R03	20 Henry Street ⁵	D Palmer ⁵	CDF R3	40	35	35	45	45	44	40	55	45	40
CDF_R04	61 Newbridge Road ⁵	H Tetlaw ⁵	CDF R4	40	35	35	45	45	41	40	50	45	40
CDF_R05	331 Newbridge Road ³	ML Gardner ('Hollywood') ³	CDF R5	40	35	35	45	44	40	40	50	45	40
CDF_R06	382 Newbridge Road ⁵	GJ Keen ⁵	CDF R6	40	35	35	45	44	40	40	50	45	40
CDF_R07	84 Newbridge Road ⁴	D Somerville ('Athol') ⁴	CDF R7	40	35	35	45	43	43	40	50	45	40
Other privately owned land			-	40	35	35	45	-	-	-	-	-	-

Note: ¹ The receiver order in Table 13 is consistent with the Location descriptors in PA 06_0295 Schedule 3 Table 2

² This receiver in Table 13 is the second Locality and Location described in EPL 5590 Table L4.2

³ This receiver in Table 13 is the third Locality and Location described in EPL 5590 Table L4.2

⁴ This receiver in Table 13 is the first Locality and Location described in EPL 5590 Table L4.2

⁵ These receivers in Table 13 are not described in the list of Locality and Location(s) in EPL 5590 Table L4.2 but are included in PA 06_0295 Schedule 3 Table 2

5.4 Compliance assessment through attended monitoring

Attended noise monitoring is used to quantify and describe the acoustic environment around a site. The results of the attended noise monitoring are recorded, analysed and compared with the defined noise limits to assess compliance. The Cadia noise monitoring program includes an assessment of compliance against noise impact assessment criteria, sleep disturbance criteria, land acquisition criteria and cumulative criteria.

5.4.1 Monitoring locations

To assess compliance with noise impact assessment criteria, land acquisition criteria, cumulative criteria and EIS/EA predictions for noise, attended monitoring will be undertaken at representative locations in the region surrounding the mine and CDF. In order to better understand the management of the acoustic environment in the context of Cadia, seven (7) noise management groups (NMGs) were established around the mine and two (2) NMGs around the CDF.

The NMGs were established in consultation with DPE and the EPA. A NMG is a group of receiver locations within an area or region where noise management initiative will affect the noise levels in the whole receiver group. The representative monitoring location identified in a NMG is a location where the noise level attributed to the source and the noise management initiative can be observed and quantified.

Cadia Noise Management Groups

The seven (7) NMG for the mine are shown in Figure 2 and described in detail as:

NMG_1: This area covers the privately owned rural residential properties to the north-east of the mine in the locality of Waldegrave, north of Woodville Road and east of Cadia Road. NMG_1 is an area of undulating hills with pockets of forest in open farming land.

NMG_2: This area covers the privately owned rural properties in the Forest Reefs locality to the east of Cadia Road and Flyers Creek, south of Woodville Road, extending south to include Pennyweight Gully. The eastern area of NMG_2 slopes from east to west to Flyers Creek. There is a north-south forested ridge line between Flyers Creek, Cadia Road and the mine.

NMG_3: This area covers the privately owned rural properties in the Forest Reefs locality to the east of Cadia Road and Flyers Creek, and the forested north-south ridge line between Flyers Creek, Cadia Road and the mine. NMG_3 is an area of undulating hills divide north-east to south-west by Errowanbang Road and Jarvis Gully.

NMG_4a: As a subgroup of NMG4, this specifically covers the privately owned receiver 2121 (Northwest) in the Errowanbang locality. **NMG_4b:** As a subgroup of NMG_4, this area covers the privately owned rural properties in the Errowanbang and Flyers Creek localities south-east of the mine, east of Cadia Road and north of Panuara Road. NMG_4 includes the northern extent of the Flyers Creek Windfarm.

NMG_5: This area covers the privately owned rural properties in the Errowanbang locality south of the mine, south of Panuara Road, northwest of Burnt Yards Road. NMG_5 is an area of undulating open farming land north of the southern reaches of Flyers Creek and east of north-south running catchment of Cadiangullong Creek.

NMG_6: This area covers the privately owned rural properties in the Panuara locality to the west of the mine, to the west and southwest of the Panuara Road - Four Mile Creek Road intersection. NMG_6 is an area of undulating open farming land divided east to west by Lawson Road and extends west to the Panuara Rivulet and north to Ashleigh Park Road.

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NMG_7: This area covers the privately owned rural properties in the Four Mile Creek locality to the northwest of the mine, south of the Four Mile Creek Road section of the Canobolas State Forest. NMG_7 is an area of undulating open farming land divided north to south by Four Mile Creek Road and the Panuara Rivulet and the extends west to Bridge Creek and south to mine owned properties on Wallaces Road.

Cadia Noise Monitoring Locations

As shown in Table 12, the night time noise impact assessment criterion of 35 dB(A) is applicable to all receivers. The day and evening criteria vary due to proximity to the Cadia activities and effect of topography on noise propagation. To account for the varying criteria within the NMGs and to demonstrate compliance against the noise limits, a primary monitoring location has been nominated for each NMG in Table 14.

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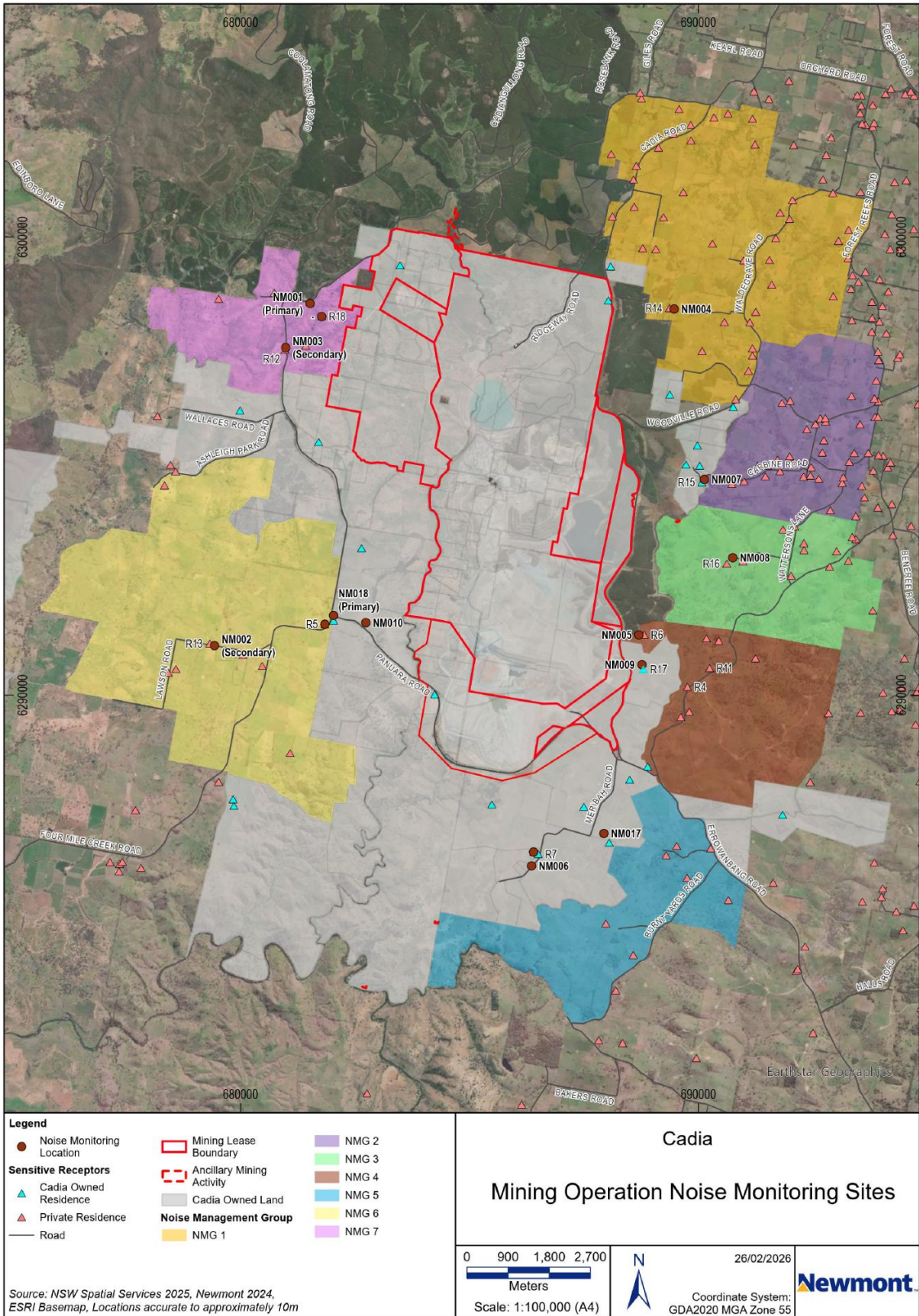


Figure 2 - Cadia Noise Management Groups and associated Monitoring Locations

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Table 14: Cadia - Compliance Monitoring Locations and Noise Limits for Noise Management Groups

NMG	Receptors Represented by NMG	Monitoring ID	Nearest Private Property ID	Receptor Number	Monitoring Location (GDA2020 MGA Zone 55)		NMG Noise Limit D / E / N LAeq,15min / N LA1,1min
					Easting	Northing	
1	2, 4, 6, 7, 8, 9, 11, 13, 14, 15, 20, 25, 33, 67, 133B, 251, 304, 2010, 2012, 2013, 2024B, 2064, 2100, 2101, 2102, 2103, 2104, 2105, 2106A, 2106B, 2112A, 2112B, 2113, 2114, 2115A, 2115B, 2116, 2117, 2118, 2119	NM004	14	R14	689470	6298430	40 / 35 / 35 / 45
2	23, 28, 30, 31, 32, 98, 108, 110, 113, 116, 117, 118, 123, 127, 130, 140, 141, 153, 161, 165, 166, 178, 179, 201, 202, 281A, 281B, 282, 283, 284, 285, 286, 287A, 287B, 287C 288, 2024A, 2160	NM007	175	R15	690130	6294710	40 / 35 / 35 / 45
3	34, 35, 37A, 37B, 190, 195, 196, 197, 198, 2040	NM008	2163 [old 35]	R16	690750	6293000	41 / 38 / 35 / 45

4a	2121	NM005 (Primary)	2121	R6	688700	6291315	42 / 37 / 35 / 45
4b	38, 40, 44, 46, 208, 2072, 2123	NM009 ² (Primary)	2123	Formerly R17	688767	6290665	48 / 43 / 35 / 45
5	60, 62, 171, 205, 2124, 2125, 2136	NM006	171	R7	686356	6286272	40 / 35 / 35 / 45
6	133A, 135, 138, 2126, 2127, 2128, 2129	NM018 (Primary)	2127	R5	682030	6291740	43 / 41 / 35 / 45
		NM002 ¹ (Secondary)	133	R13	679430	6291080	40 / 37 / 35 / 45
7	105, 107, 2130	NM001 (Primary)	2130	R18	681520	6298550	40 / 35 / 35 / 45
		NM003 ¹ (Secondary)	105	R12	680985	6297587	

Note: ¹ Identified as secondary monitoring locations within the NMG to be used if the operational noise levels at the representative monitoring location is at, or above the respective night time noise limit.

² Noise management levels at this location are based on the highest predicted noise levels presented in Table 6-15 to Table 6-17 in the MOD 15 EIS NIA (RWDI, 2023) for the recently acquired receiver 210. While noise limits are not specified in PA 06_0295 or EPL 5590 for this location, it represents an ideal measurement location for the assessment of compliance and performance management due to its proximity, exposure and perspective to the mine. This location also provides a strong representation for the noise measurement group.

The attended noise monitoring locations shown on Figure 2 and presented in Table 14 are representative of the seven (7) NMGs where Cadia is a potentially audible noise source. The descriptions of the seven (7) primary monitoring locations used to assess the compliance of Cadia at each of the NMGs are as follows:

NM004 - Waldegrave (Chesterfield): Attended monitoring location for NMG_1: Waldegrave. The monitoring location is on the western end of Burn Road approximately 100m from privately owned property 14 [R14 Chesterfield] and approximately 1,600 metres west of the Burn Road - Waldegrave Road intersection. The LAeq,15minute noise limits at the closest privately owned property to the mine, (14) R14 Chesterfield, in NMG_1 are 40/35/35 dB(A) LAeq,15minute day/evening/night and 45 dB(A) LA1,1minute during the night (i.e. *Other privately owned land*).

The recommended noise limits at NM004 are 40/35/35 dB(A) LAeq,15minute day/evening/night and 45 dB(A) LA1,1minute during the night.

Where monitoring shows that operational noise level at the representative monitoring location NM004 is within the NMG noise limits, compliance should also be achieved at all other locations within the NMG.

NM007 - Forest Reefs (Warrengong): Attended monitoring location for NMG_2: Forest Reefs. The monitoring location is on the western end of Carbine Road approximately 30m from privately owned property 178 and approximately 2,900 metres west of the Carbine Road - Ovington Lane intersection. The LAeq,15minute noise limits at the closest privately owned property to the mine in NMG_2, 178, are 40/35/35 dB(A) LAeq,15minute day/evening/night and 45 dB(A) LA1,1minute during the night (i.e. *Other privately owned land*).

The recommended noise limits at NM007 are 40/35/35 dB(A) LAeq,15minute day/evening/night and 45 dB(A) LA1,1minute during the night (i.e. *Other privately owned land*).

Where monitoring shows that operational noise level at the representative monitoring location NM007 is within the NMG noise limits, compliance should also be achieved at all other locations within the NMG. If the operational noise level is at, or above the noise limit at NM007, compliance monitoring may also be undertaken at privately owned property 2160 where the noise limits are 40/36/35 dB(A) LAeq,15minute day/evening/night and 45 dB(A) LA1,1minute during the night.

NM008 - Forest Reefs (Willow Creek): Attended monitoring location for NMG_3: Forest Reefs. The monitoring location is on the western end of Hagers Lane approximately 170m from privately owned property 2163 [R16 Willow Creek] and approximately 3,700 metres west of the Hagers Lane – Wattersons Lane intersection. The LAeq,15minute noise limits at the closest privately owned property in NMG 3 to the mine, 2163 [R16 Willow], are 41/48/35 dB(A) LAeq,15minute day/evening/night and 45 dB(A) LA1,1minute during the night is 35 dB(A) Creek.

The recommended noise limits at NM008 are 41/38/35 dB(A) LAeq,15minute day/evening/night and 45 dB(A) LA1,1minute.

Where monitoring shows that operational noise level at the representative monitoring location NM008 is within the NMG noise limits, compliance should also be achieved at all other locations within the NMG.

NM005 - Errowanbang (Northwest): Attended monitoring location for NMG_4a: The monitoring location is approximately 100m west of the privately owned property 2121 [R6 Northwest].

The recommended noise limits at NM004 are 42/37/35 dB(A) LAeq,15minute day/evening/night and 45 dB(A) LA1,1minute during the night.

NM009 - Errowanbang (Wahroonga): Attended monitoring location for NMG_4b: Errowanbang and Flyers Creek. The monitoring location is approximately 90m north-west of the recently acquired 210 [R17 Wahroonga] on Cadia Road approximately 1,700m north of the Cadia Road – Panuara Road intersection. The proposed noise management levels of 48/43/35 dB(A) LAeq,15minute day/evening/night and 45 dB(A) LA1,1minute during the night based on the predicted noise levels at receptor 210 presented in Table 6-15 to Table 6-17 in the MOD 15 EIS NIA (RWDI, 2023).

The recommended noise limits at NM009 are 48/43/35 dB(A) LAeq,15minute day/evening/night and 45 dB(A) LA1,1minute during the night.

Where monitoring shows that operational noise level at the representative monitoring location NM009 is within the NMG noise limits, compliance should also be achieved at all other locations within the NMG.

NM006 - Errowanbang (South Log): Attended monitoring location for NMG_5: Errowanbang. The monitoring location is approximately 290m from the dwellings on the mine-owned property 171 [R7 South Log] and approximately 3,600m south of the Meribah Road – Panuara Road intersection. The LAeq,15minute noise limits at the closest privately owned property to the mine in NMG_5, approximately 2,100m to the southeast of NM006 [R7 South Log] on Ellerys Lane, are 40/35/35 dB(A) LAeq,15minute day/evening/night and 45 dB(A) LA1,1minute during the night (i.e. *Other privately owned land*).

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The recommended noise limits at NM006 are 40/35/35 dB(A) LAeq,15minute day/evening/night and 45 dB(A) LA1,1minute during the night.

Where monitoring shows that operational noise level at the representative monitoring location NM006 is within the NMG noise limits, compliance will also be achieved at all other locations within the NMG. If the operational noise level is at, or above the noise limit at NM006, compliance monitoring may also be undertaken adjacent to privately owned property 60 off Ellerys Lane or privately owned properties 2124 and 2125 off Errowanbang Road where the noise limits are 40/35/35 dB(A) LAeq,15minute day/evening/night and 45 dB(A) LA1,1minute during the night.

NM018- Panuara: Attended monitoring location for NMG_6: Panuara. The monitoring location is approximately 260m northeast of privately owned property 2127 [R5 Eastburn] and approximately 40m east of the Four Mile Creek Road – Panuara Road intersection. The LAeq,15minute noise limits at the closest privately owned property to the mine, 2127 [R5 Eastburn], in NMG 6 are 43/41/35 dB(A) LAeq,15minute day/evening/night and 45 dB(A) LA1,1minute during the night.

The recommended noise limits at NM010 are 43/41/35 dB(A) LAeq,15minute day/evening/night and 45 dB(A) LA1,1minute during the night.

Where monitoring shows that operational noise level at the representative monitoring location NM010 is within the NMG noise limits, compliance should also be achieved at all other locations within the NMG. If the operational noise level is at, or above the noise limit at NM010, compliance monitoring may also be undertaken at NM002 where the noise limits are 40/37/35 dB(A) LAeq,15minute day/evening/night and 45 dB(A) LA1,1minute during the night.

NM001 – Four Mile Creek (Rosebank): Attended monitoring location for NMG_7: Four Mile Creek. The monitoring location is approximately 310m northwest of privately owned property 2130 [R18 Rosebank] and approximately 560m east of the Four Mile Creek Road – Charleville Lane intersection. The noise limits at the closest privately owned properties in NMG_7 to the mine are 40/35/35 dB(A) LAeq,15minute day/evening/night and 45 dB(A) LA1,1minute during the night at 35 dB(A) (i.e. *Other privately owned land*). Receiver 2130 [R18 Rosebank] is at RL820m and the dwellings privately owned property 105 [R12 Barton Park] are RL 770m to RL 790m. The proposed monitoring locations NM001 is in an elevated location at RL 840m overlooking the northern section of NMG_7.

The recommended noise limits at NM001 are 40/35/35 dB(A) LAeq,15minute day/evening/night and 45 dB(A) LA1,1minute during the night.

Where monitoring shows that operational noise level at the representative monitoring location NM001 is within the NMG noise limits, compliance should also be achieved at all other locations within the NMG. If the operational noise level is at, or above the noise limit at NM001, compliance monitoring may also be undertaken at NM003 where the noise limits are 40/35/35 dB(A) LAeq,15minute day/evening/night and 45 dB(A) LA1,1minute during the night.

Cadia Dewatering Facility Noise Management Groups

The two (2) NMG for the CDF are shown in Figure 3 and described in detail as follows:

CDF_NMG_2: This area covers the privately owned rural properties to the north, east and south-east of the CDF in the Blayney and Wricon Park localities to the north of the rail line. The northern and eastern area of CDF_NMG_2 slopes up from the CDF.

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CDF_NMG_3: This area covers the privately owned rural properties on the outskirts of Blayney to the south-west of the CDF, south of the rail line. An industrial development (Blayney Wholesale Foods) is located between CDF_NMG_3 and the rail line. CDF_NMG_3 extends to the eastern extent of the suburban area of the Blayney township.

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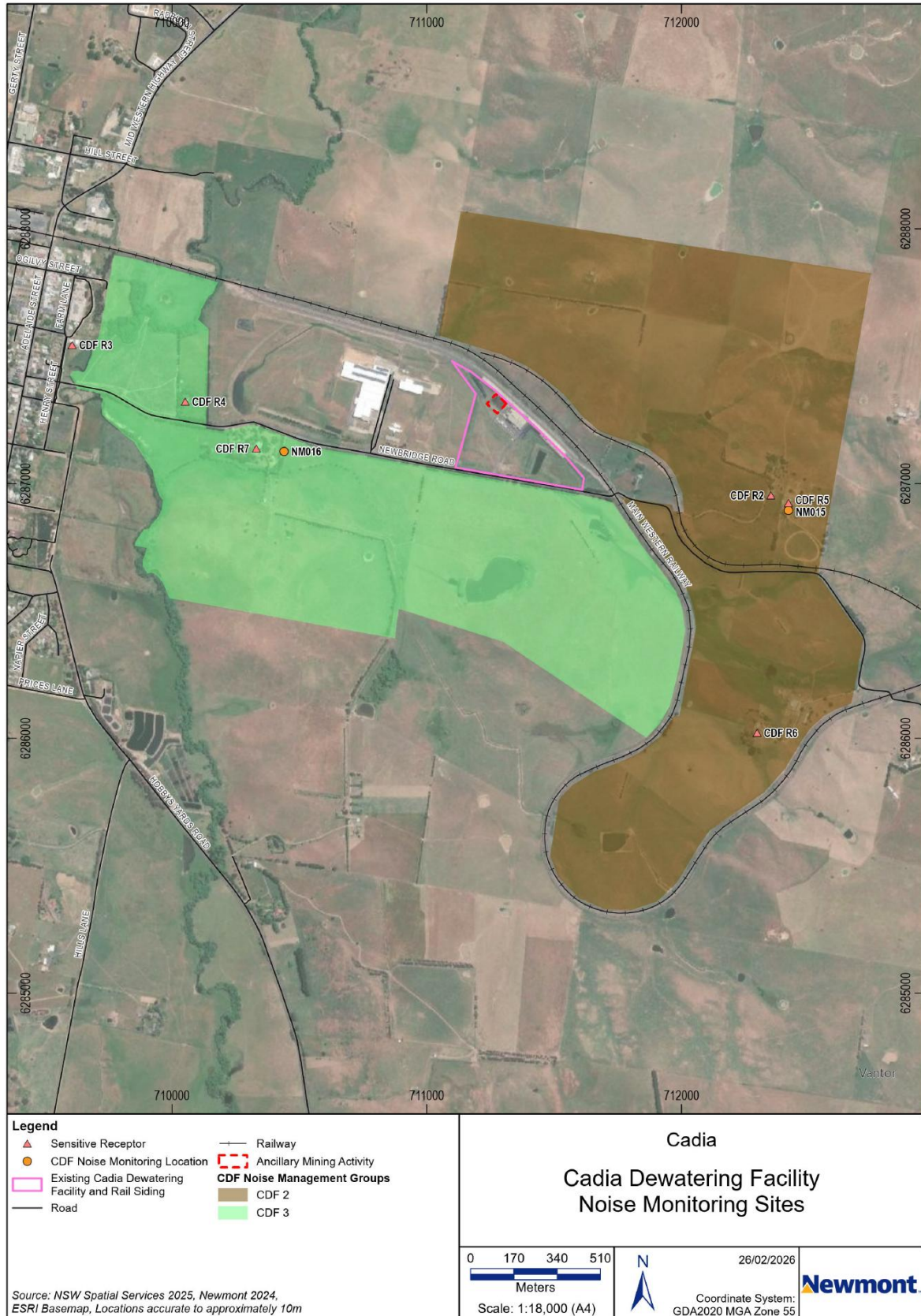


Figure 3 - CDF Noise Management Groups and associated Monitoring Locations

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Cadia Dewatering Facility Noise Monitoring Locations

The attended noise monitoring locations shown on Figure 3 and presented in Table 15 are representative of the two (2) NMGs where Cadia Dewatering Facility is a potentially audible noise source.

Table 15: Cadia Dewatering Facility - Compliance Monitoring Locations and Trigger Management Levels

NMG	Receptor Number	Monitoring Location (GDA2020 MGA Zone 55)			NMG Noise Limit ¹ D / E / N LAeq,15min / N LA1,1min
		Monitoring ID	Easting	Northing	
CDF NMG 2	CDF R2 ²	NM015	712420	6286895	40 / 36 / 36 / 45
	CDF R5 CDF R6	-	-	-	40 / 35 / 35 / 45
CDF NMG 3	CDF R3 CDF R4 CDF R7 ²	NM016	710440	6287126-	40 / 35 / 35 / 45

Note: ¹ The noise limits apply except for the properties with an agreement in place.

² Agreement in place with properties regarding noise limits.

The descriptions of the two (2) monitoring locations used to assess the compliance of Cadia Dewatering Facility at each of the NMGs are as follows:

NM015 - Hollywood: The attended monitoring location for CDF_NMG_2 is located approximately 30m from the southern façade of the dwelling on 331 Newbridge Road Blayney.

The recommended noise limits at NM015 are 40/36/35 dB(A) LAeq,15minute day/evening/night and 45 dB(A) LA1,1minute during the night

NM016 - Athol: The attended monitoring location for CDF_NMG_3 is located approximately 100 m to the northeast of the dwelling on 84 Newbridge Road Blayney.

The recommended noise limits at NM016 are 40/35/35 dB(A) LAeq,15minute day/evening/night and 45 dB(A) LA1,1minute during the night.

As noted in Table 15, the noise limits apply except for the properties with an agreement in place.

All engagement, communications, and materials related to agreements are to be tracked in Borealis. Borealis is Cadia's primary stakeholder management tool.

5.4.2 Attended noise monitoring program

Attended noise monitoring will be conducted by a suitably qualified and experienced acoustic professional in accordance with Section 7.1 of the *Noise Policy for Industry* (NPfI) and the *Approved Methods for the Measurement and Analysis of Environmental Noise in NSW*. These documents provide guidance on the minimum requirements for noise level measurements to assess compliance with consent and licence conditions.

Monitoring Equipment and Parameters

Sound level meters used for monitoring will comply with IEC 61672 standards and be capable of:

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- Measuring LAeq,15minute and LA1,1minute for compliance assessment
- Measuring one-third octave band and LCeq,15minute results for analysis of annoying noise characteristics, as defined in Appendix C of the NPfl.
- Returning statistical data and short-term time histories (data logging)

Monitoring Procedure

Prior to undertaking the attended monitoring, the acoustic professional will review the real-time meteorological data and Bureau of Meteorology (BoM) weather forecasting tools to predict if any site would be likely to return a noise level well below the criteria or would be expected to be inaudible (i.e. upwind monitoring location). The acoustic professional will plan to target noise monitoring to occur where forecast meteorological conditions are expected to be within the conditions described in Section 5.3 to minimise monitoring under very noise-enhancing meteorological conditions.

Where forecast meteorological conditions indicate that noise levels at a monitoring location are likely to be well below criteria or inaudible (e.g. due to upwind conditions), that location may be excluded from the monitoring schedule for that period. The acoustic professional will document the rationale for exclusion, referencing real-time meteorological data and BoM forecasts. This approach ensures monitoring is focused on locations and conditions most likely to yield representative data, while minimising the influence of noise-retarding or non-representative conditions. All exclusions will be recorded in the monitoring log, including justification and supporting meteorological information.

Noise levels at representative monitoring locations in Table 14 and Table 15 will be assessed against the respective NMG Noise Limits using the compliance protocol in Section 5.4.4. If compliance is demonstrated at a representative receiver, it is assumed to be achieved across the NMG. If limits are exceeded, reassessment may occur at secondary locations, including designated receivers in PA 06_0295 and/or EPL 5590. If exceedance is confirmed, the protocol in Section 5.4.4 will be initiated.

Monitoring locations may be modified over time based on results, operational changes, or property acquisitions.

Data Collection and Analysis

Each 15-minute monitoring period will include:

- Contemporaneous notes of all observable noise sources
- LAeq,15minute dB(A) result
- One-third octave band filtering, with low-pass filtering (e.g. ≤ 630 Hz) to exclude high-frequency extraneous noise (e.g. insects).
- 1-second interval noise trace to identify discrete noise events attributable to the mine or extraneous sources.
- LCeq,15minute dB(C) result collected simultaneously
- Wind speed at microphone height
- Meteorological conditions during monitoring (see Section 5.3)
- Operational status of the noise source (e.g. full or partial capacity).

Documentation Requirements

For each monitoring session, the following must be recorded:

- Monitoring personnel name

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- Location details
- Start and end times
- Instrument type and calibration details (pre- and post-monitoring)
- Microphone height and distances to facades or boundaries
- Quantitative meteorological data: temperature, wind speed/direction, humidity
- Qualitative meteorological data: cloud cover, fog, rainfall
- Notes on audible noise sources and their contribution to noise level
- Estimated contributions from Cadia and other sources, considering:
 - o LAeq,15minute
 - o Statistical descriptors: LAmin, LA90, LA10, LAmax
 - o Relative contribution of mine noise, using low-pass filtering if needed.
 - o Difference between LCEq and LAeq to assess low-frequency impacts (Fact Sheet C, NPfl).
 - o One-third octave band analysis (10 Hz to 12 kHz) for annoying characteristics
 - o Qualitative identification of LA1,1minute events and likely sources
- Recommendations or comments as appropriate.

5.4.3 Monitoring schedule

Attended monitoring during the day, evening and night will be conducted once every two months (Schedule 3 Condition 8(d)) and in accordance with the requirements of EPL 5590 Condition M4.1 and this Plan, to demonstrate compliance with the NMG Noise Limits presented in Table 14 for Cadia and Table 15 for the Cadia Dewatering Facility.

Note: Attended monitoring schedule may not apply if Cadia has an agreement with the relevant owner/s of these residences/land and Cadia has advised the Department in writing of the terms of this agreement. This process will be the same as the having an agreement for changes to noise limits and outlined in Schedule 3 Condition 2 of the Project Approval.

In addition to the monitoring methods described above, bi-annual measurements will be undertaken at the secondary locations NM002 and NM005 to address EPL clause M4.1.

Road traffic noise monitoring will be undertaken once every two months.

5.4.4 Compliance assessment protocol

The noise levels measured at each of the representative monitoring locations will be assessed against the NMG Noise Limits provided in Table 14 and Table 15. To determine if a measured noise level exceeds the applicable noise criteria, each noise measurement will follow the protocol described in Figure 4. At the completion of each 15-minute measurement the '*Assigned noise contribution from the Operation*' will be compared against the '*Confirm the Noise Limit*' determined according to Figure 5.

The number of noise measurements collected at a location to assess compliance will follow the measurement methodology described in Figure 5 and Figure 6.

Assessment methodology

Up to four 15 minute noise measurements could be undertaken at each NMG measurement location in order to assess compliance with the applicable noise limits.

In Figure 6, if the first/initial measurement indicates that the operational noise level is 5 dB or more below the applicable NMG noise limit at the representative receiver, compliance is

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proposed to be achieved at all locations within the NMG and no further action or additional measurements are required.

If the first/initial measurement indicates that the operational noise level is within 5 dB of the applicable NMG noise limit at the representative receiver, compliance is considered likely. However, a second noise measurement will be undertaken to confirm compliance is achieved. If the two measurements at or below the applicable noise limit compliance is proposed to be achieved at all locations within the NMG and no further action or additional measurements are required.

If the first or second measurements are above the applicable NMG noise limit, then up to four measurements will be undertaken to evaluate compliance against the applicable noise limit. The protocol for assessing compliance is provided in Figure 6.

Where the first measurement is more than 5 dB above the NMG noise limit the compliance assessment protocol in Figure 6 identifies the measured noise Level as an exceedance. A second measurement will be undertaken to identify if the noise level is sustained.

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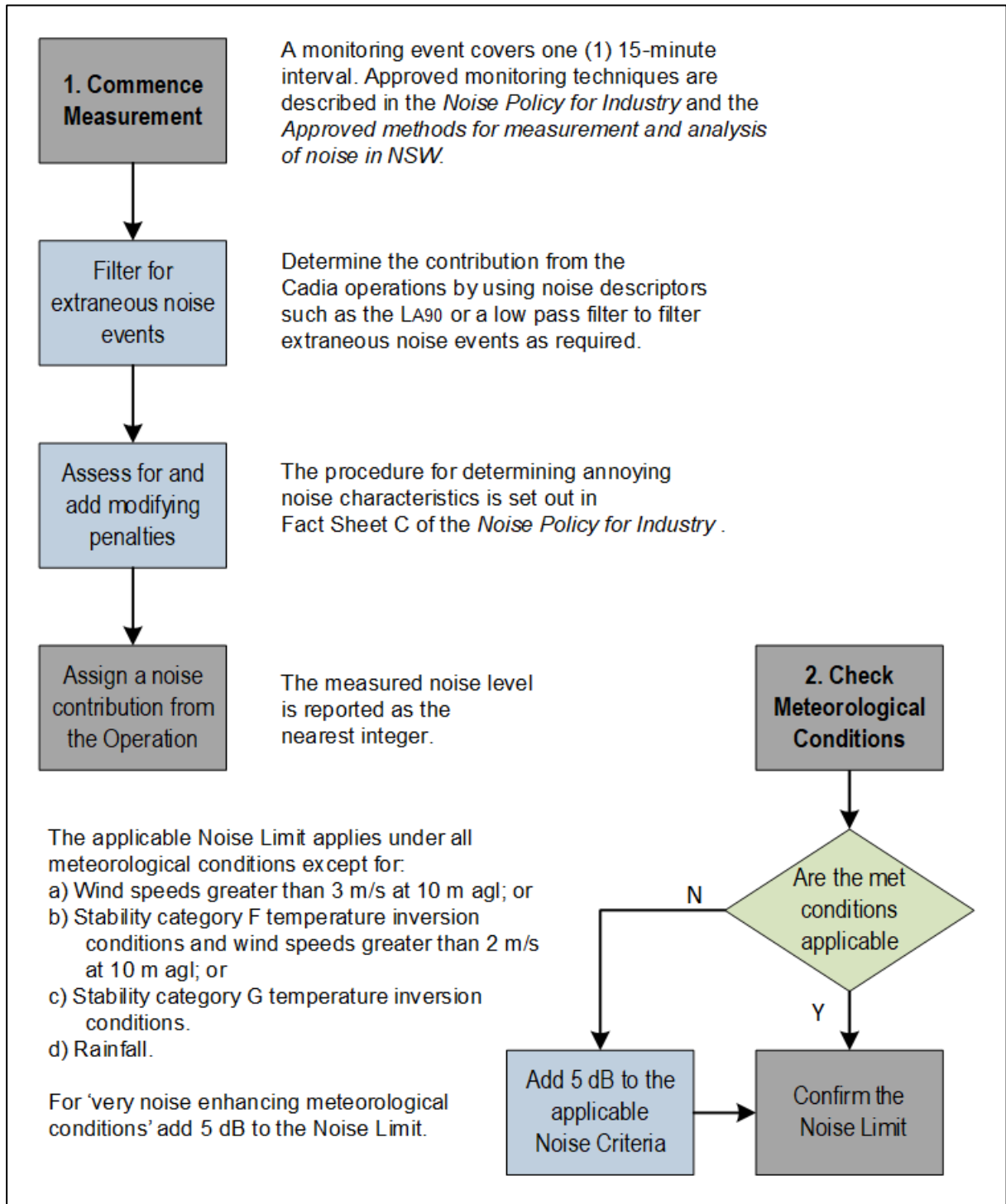


Figure 4 – Operational Noise Measurement Methodology

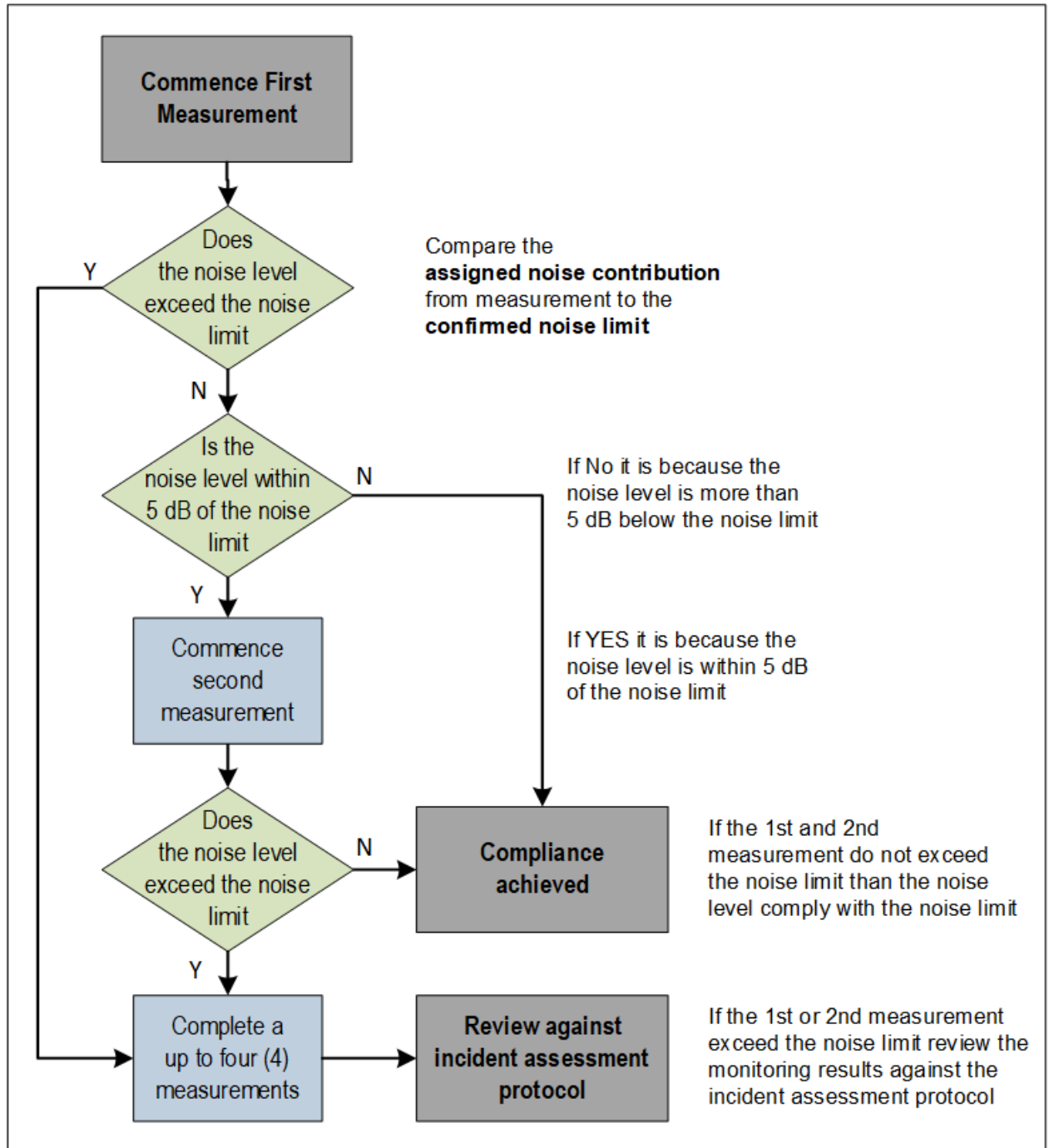


Figure 5 – Measurement Methodology for determining the number of operational noise measurements

Compliance Assessment Protocol

The compliance assessment protocol in Figure 6 identifies when the noise measurement at a monitoring location exceed NMG Noise Limit. The methodology, based on up to four measurement results, enables the acoustic professional to observe changes in the acoustic environment at the monitoring location and assess the effectiveness of the noise management actions implemented by Cadia at the time of monitoring.

Measurement					Noise Level Compliance	Compliance Statement
1	2	3	4	Combined		
C _{<5}				C _{<5} - - -	Compliant	1st measurement more than 5 dB below the noise limit
C _{-5 to 0}					-	1st measurement within 5 dB, take 2nd measurement
	C			C _{-5 to 0} C - -	Compliant	1st measurement within 5 dB, 2nd measurement compliant
C _{-5 to 0}					-	1st measurement within 5 dB, take 2nd measurement
	E				-	2nd measurement above noise limit, take 3rd measurement
		C			-	3rd measurement compliant, confirm with 4th measurement
			C	C _{-5 to 0} E C C	Compliant	3rd and 4th measurement compliant, noise levels compliant
C _{-5 to 0}					-	1st measurement within 5dB, take 2nd measurement
	E				-	2nd measurement above noise limit, take 3rd measurement
		E		C _{-5 to 0} E E -	Exceedance	2nd and 3rd measurement above limit
E _{0 to +5}					-	1st measurement above noise limit, take 2nd measurement
	C				-	2nd measurement compliant, confirm with 3rd measurement
		C		E _{0 to +5} C C -	Compliant	2nd and 3rd measurement compliant, noise levels compliant
E _{0 to +5}					-	1st measurement above noise limit, take 2nd measurement
	E				-	2nd measurement above noise limit, take 3rd measurement
		C			-	3rd measurement compliant, confirm with 4th measurement
			C	E _{0 to +5} E C C	Compliant	3rd and 4th measurement compliant, noise levels compliant
E _{0 to +5}					-	1st measurement above noise limit, take 2nd measurement
	E				-	2nd measurement above noise limit, take 3rd measurement
		E		E _{0 to +5} E E -	Exceedance	2nd and 3rd measurement above limit
E _{>+5}				E _{>+5} - - -	Exceedance	1st measurement exceeds the noise limit by more than 5 dB
	C			E _{>+5} C - -		2nd measurement taken to establish if the high noise level is sustained. No change to statement of exceedance
	E			E _{>+5} E - -		

Figure 6 – Compliance Assessment Protocol

Cadia will notify the Department within 24 hours of becoming aware of an incident in accordance with Schedule 5 Condition 5A of PA 06_0295. An incident report will be submitted to the

Department within seven days of the initial notification in accordance with Appendix 9 of PA 06_0295 and as described in Table 20.

Follow-up monitoring

If the attended noise monitoring identifies an incident due to the noise level exceeding the applicable NMG Noise Limit, additional follow-up attended noise monitoring survey(s) may be initiated in support of the incident investigation. The objective of any additional attended noise within the seven-day reporting period required by Appendix 9 of PA 06_0295 is to determine if noise control measures implemented by Cadia as a result of the identified incident have been effective in reducing the noise levels. That is, the noise levels determined during the follow-up monitoring are at or below the relevant NMG Noise Limit at the original monitoring location during the relevant day, evening or night period under similar weather conditions.

Where the source of the noise exceedance has been clearly identified and eliminated follow-up monitoring may not be required.

Where the noise exceedance has not been identified and compliance with the respective noise limit has not been achieved, quarterly monitoring results will be provided to affected parties until the results show that the compliance with the respective noise limit in accordance with Schedule 4 Condition 4 of PA 06_0295.

5.5 Performance management using unattended real-time continuous noise monitors

5.5.1 Overview

Cadia has established the performance management component of the noise monitoring program using a network of unattended real-time continuous noise monitors. The details of the real-time noise monitoring locations monitoring are described in Section 5.5.2. The locations of the real-time noise monitoring units have been selected considering the location of the nearest private residences, local topography and results of mine noise predictions.

The real-time noise monitors are used for proactive and reactive noise management of day-to-day operations of Cadia, rather than as a tool to monitor compliance.

The real-time monitors provide 24-hour continuous information on the ambient noise environment local to the monitoring site and generate quantitative data and audio recordings that can be used to determine the likely primary source of the noise and for comparison against noise impact assessment criteria.

The real-time noise monitoring units will be calibrated according to the manufacturer’s calibration requirements and NATA requirements (where relevant) for individual components, it is anticipated that this includes:

- Laboratory calibration of sound level meters at intervals not greater than 24 months; and
- Field calibration of sound level meters are conducted at intervals according to the manufacturer’s specifications .

The real-time monitoring platform is configured to send an SMS to the Environment and Community Departments, Shift Supervisors and other key operational personnel if a trigger noise level is exceeded over a sustained period. The trigger levels have been established from analysis of the representative noise modelling results and the applicable noise limits at the residences within the noise management group.

Triggers for alarms and monitoring locations are reviewed, as required, to ensure they adequately detect mine noise and differentiate as much as possible between mine impact and extraneous

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influences (such as wind, insects etc.) to achieve greater confidence in the monitoring systems. Alarm investigations are reviewed on a regular basis to identify trends and where appropriate, investigate feasible measures to further reduce noise impacts.

The response to alarms and the review of the trigger levels forms part of the noise trigger action response plan discussed in section 5.11.1.

5.5.2 Real-time noise monitoring locations

The locations for the real time noise monitors shown on Figure 7 have been chosen to consider residential locations, topographical conditions, prevailing weather conditions and the privacy of residents. Noise monitoring locations will be reviewed and, where necessary, modified over the life of operations according to monitoring results, physical changes in mining operations, or following the acquisition of private property by Cadia.

The details of each of the representative monitoring locations is summarised in Table 16.

Table 16: Real Time Monitoring Locations

Unit	Monitoring ID	Location	Easting	Northing*
SX_01	NM009	NMG_04 Wahroonga	688767	6290665
SX_02	NM017	NMG_05 Meribah	687936	6286981
SX_03	NM010	NMG_06 Panuara (East of Four Mile Creek Road)	682737	6291582

* Coordinates (GDA2020 MGA Zone 55)

The directional capabilities of the SentineX Quattro units allow the contribution from two discrete areas-of-interest (Aol) to be determined. The proposed Aols for each of the representative monitoring locations in Table 16 are presented in Table 17. The angle of coverage of the Aols are shown on Figure 7. The use of directional capabilities is considered to manage noise periods and locations that have cumulative noise sources.

Table 17: Area-of-Interest for each Real Time Monitoring Locations

Unit	Location	Aol 1	Aol 2	Aol 3
SX_01	NMG_04 Wahroonga	226 - 310	310 - 351	351 - 226
SX_02	NMG_05 Meribah	300 - 333	333 - 358	358 - 300
SX_03	NMG_06 Panuara (East of Four Mile Creek Road)	27 - 66	66 - 146	146 - 27

5.5.3 Validation program

The attended noise monitoring program includes a check to validate the results from the real-time noise monitoring network with the attended monitoring results. The real-time noise monitoring network is an integral component of the Cadia performance management system. The validation monitoring enables the real-time noise units to be used as an indicator of the operations performance against noise limits with trigger/alarm(s) indicating the need to implement management actions or the need for further attended monitoring.

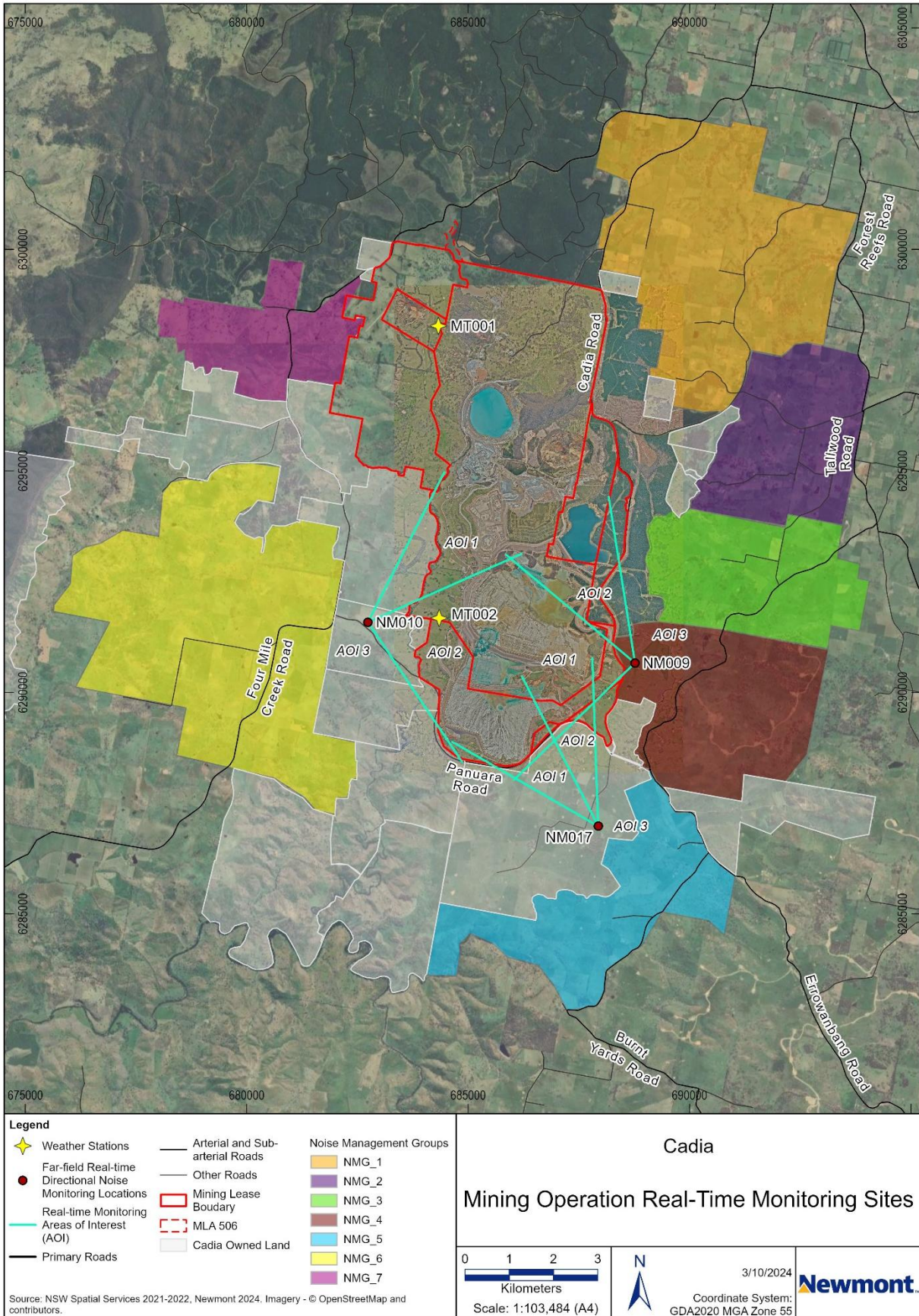


Figure 7 - Cadia Real Time Monitoring Locations

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As part of the continuous improvement process, the validation program aims to assess the accuracy of the measurements of the real-time monitors and provide Cadia with an improvement process to calibrate the real-time noise monitoring alarms to facilitate the provision of accurate and effective data. This will be achieved by monitoring adjacent to relevant real-time noise monitoring units during the attended monitoring program. The time-stamp of the day, evening and night time attended monitoring will coincide with the time-stamp of the real time noise monitor. The reported noise level from the real-time noise monitor will be compared with the attended monitoring results.

5.5.4 Supplementary targeted monitoring

Supplementary targeted monitoring should be initiated if the real-time noise monitors send noise alarms that suggests there is an issue with either the real-time noise monitor, a local noise source or the management of noise by Cadia. Targeted monitoring using a handheld monitor would provide more information on the nature of the ambient and mine-generated acoustic environment. Targeted monitoring would be performed by trained mine personnel or by an acoustic consultant. The results from this monitoring program would facilitate the consideration and/or implementation of appropriate management actions.

5.6 Modelling of noise impacts on more than 25 per cent of any privately-owned land

To ensure that the noise generated by Cadia does not exceed the noise limits in PA 06_0295 on more than 25 per cent of any privately-owned land, an update to the noise modelling for MOD 15 will be triggered if there are changes to:

- the topography and land use/ownership
- the processing plant, dewatering facility, and mining activities and mobile fleet
- operational procedures
- noise reduction measures
- updated sound power data on fixed plant and mobile equipment.

The updated noise model will be used to predict the noise impacts from the operations on privately-owned land. This assessment will also consider associated annoying characteristics and prevailing meteorological effects. The updated noise model will represent the current operations and activities occurring at the mine. To ensure there is confidence in the updated noise modelling outcomes, the observed meteorology conditions combined with the noise monitoring results (attended and unattended) will be used to confirm the results of the noise model.

5.7 Offsite traffic noise

Road Traffic Noise Monitoring Locations

Road traffic noise monitoring will be conducted along Orchard Road, Cadia Road and Woodville Road. Complaints based monitoring will be undertaken as required with the timing and duration of monitoring agreed between the resident and Cadia. The locations of the road traffic noise monitoring will vary over time depending on several factors including property access, suitability of the logger placement considering perspective and exposure to the road, and project-related traffic scheduling and routes. Traffic counters are deployed as part of the Offsite Traffic Management Plan (OTMP) and, where available, information from the traffic count analysis will be used to inform the road traffic noise measurements and analysis. The monitoring will be undertaken at locations that are representative of the privately-owned receptors along a given road, taking into consideration road speed, road surface and separation distance from the road edge. The preliminary traffic noise monitoring locations are presented in Table 16.

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Table 18: Offsite Traffic Noise Monitoring Locations

ID	Location	Approximate distance from road centre line	Frequency	Easting	Northing*
NM012	Orchard Road	20m	Annual	691915	6303625
NM013	Cadia Road	30m	Annual	688955	6301875
NM011	Woodville Road	40m	Annual	690620	6296225

* Coordinates (GDA2020 MGA Zone 55)

Road Traffic Noise Measurements

The road traffic noise monitoring will be undertaken through unattended noise logging once per year for a period of 24 hours at each of the nominated monitoring locations. The noise logging results will be supplemented with a single attended noise measurement of 15 minutes duration to contextualise the logging data.

Road Traffic Noise Data Collection and Analysis

The monitoring will include:

- Unattended noise logging for a period of 24 hours.
- Logging data will be processed into hourly results for comparison with the road traffic noise limits.
- Meteorological conditions during monitoring (see Section 5.3)
- An attended measurement of 15 minutes duration will be undertaken during the night/morning period.
- The attended measurement will include:
 - o Contemporaneous notes of all observable noise sources
 - o LAeq,15minute dB(A) result
 - o One-third octave band filtering, with low-pass filtering (e.g. ≤ 630 Hz) to exclude high-frequency extraneous noise (e.g. insects).
 - o 1-second interval noise trace to identify discrete noise events attributable to the road traffic or extraneous sources.
 - o Road traffic observations.

Road Traffic Noise Documentation Requirements

For each monitoring session, the following must be recorded:

- Monitoring personnel name
- Location details
- Start and end times
- Instrument type and calibration details (pre- and post-monitoring)
- Microphone height and distances to facades or boundaries
- Quantitative meteorological data: temperature, wind speed/direction, humidity
- Qualitative meteorological data: cloud cover, fog, rainfall
- Notes on audible noise sources and their contribution to noise level
- Estimated contributions from Cadia and other sources, considering:

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- LAeq,15minute, LAeq,1hour
- Statistical descriptors: LAmin, LA90, LA10, LAmx
- Relative contribution of road traffic noise, using low-pass filtering if needed.
- Recommendations or comments as appropriate.

Offsite Traffic Management Plan

Cadia has established an Offsite Traffic Management Plan (OTMP) to address the requirements of Schedule 3 Condition 46A, of the PA 06_0295. The OTMP identifies the road transport routes around the mine and the CDF and describe measures to minimise traffic and transport impacts to the public road network and to road users. As per the requirements of Schedule B Condition 5 of PA 06_0295 the OTMP also describes the measures to be taken by Cadia to minimise road traffic noise generated by the operations on public roads. In accordance with Schedule B Condition 5 of PA 06_0295, Cadia implements these reasonable and feasible measures to ensure the traffic noise generated by the Cadia operations does not exceed the road traffic noise criteria in Table 19.

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Table 19: Cadia Offsite Road Traffic Noise Levels, dB(A)

Location	Traffic noise Impact Assessment Criteria	
	Day/Evening	Night
Forest Road, Orange Road ¹	60 LAeq,15hours	55 LAeq,9hours
Cadia Road, Orchard Road, Four Mile Creek Road, Woodville Road, Panuara Road	55 LAeq,1hour	50 LAeq,1hour

Note 1 - Condition 5 Schedule 3 refers to Orange road around the 'old Blayney Dewatering Facility' this has been closed and the lease relinquished, and Orange road referenced in Condition 5 is not used to access the new CVO dewatering facility therefore monitoring not required in this location, furthermore concentrate is no longer trucked from site to the rail loading facility.

As described in the OTMP, reasonable and feasible measures implemented by Cadia to manage offsite traffic noise will be assessed against the monitoring event outcomes described in Table 16. Measures that will minimise road traffic noise include:

- Implementation of the Driver Behaviour Policy
- Route management for access to site and heavy vehicle movements
- Operational scheduling of start and finish times
- Community awareness and engagement
- Traffic surveys are meeting predicted numbers
- Road maintenance programs with Council

Upon receiving a written request from the owner of a residence listed in Table 19, Cadia will investigate the noise levels at the location and implementation of noise mitigation measures in consultation with the landowner if required. Mitigation measures implemented must be feasible and reasonable and directly related to the mitigation of road traffic noise impacts.

5.8 Incident identification

The Cadia East Project Approval provides the following definitions regarding incidents, material harm and non-compliances:

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.
Material Harm	<p>Is harm that:</p> <ul style="list-style-type: none"> • Involves actual harm to the environment that may include (but not be limited to) a leak, spill, emission or other escape or deposit of a substance, and as a consequence of that environmental harm (pollution), may cause harm to the health or safety of people; or • Results in actual loss or property damage of an amount, or amounts in aggregate, exceeding \$10,000 (such loss includes the reasonable costs and expenses that would be incurred in taking all reasonable and practicable measures to prevent, mitigate or make good harm to the environment). <p>Note: This definition excludes "harm" that is either authorised under this approval or any other statutory approval.</p>

	Note: For the purposes of this definition, material harm excludes incident captured by Work Health and Safety reporting requirements.
Non-Compliance	An occurrence, set of circumstances or project that is a breach of this approval but is not an incident.

In the context of noise emissions, Cadia’s application of the above definitions is as follows:

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.
Material Harm	<p>Is harm that:</p> <p>Involves actual or potential harm to the health or safety of human beings or to ecosystems that is not trivial; or</p> <p>Results in actual or potential loss or property damage of an amount, or amounts in aggregate, exceeding \$10,000 (such loss includes the reasonable costs and expenses that would be incurred in taking all reasonable and practicable measures to prevent, mitigate or make good harm to the environment).</p>

An environmental incident investigation will be initiated to determine the cause of a non-compliance where the monitoring event at a location exceeded the applicable noise limit. The investigation of the non-compliance/potential incident will:

- Specify the date and time and the nature of the non-compliance.
- Identify the cause (or likely cause) of the non-compliance.
- Describe the action(s) taken address the non-compliance and the steps to be taken according to the Cadia RACI system.
- Complete a risk assessment using the Cadia Material Risk Protocol to rank the potential incident and assess the risk of material harm to the environment.
- Report the incident according to the requirements of Section 5.10.

Where the potential for material harm has been identified, Cadia will initiate a monitoring program that reports the results to the affected landowners and tenants until the results show that Cadia is complying with the relevant criteria.

5.9 Complaints

Cadia operates a dedicated Community Contact Hotline which is in operation 24 hours per day, seven days a week. The details of this are distributed in a quarterly newsletter and are also displayed on the Cadia website (<https://www.cadiavalley.com.au>).

Cadia has an established procedure for responding to community complaints and requests from the EPA under condition M4.3 of EPL 5590. In order to ensure there is an appropriate and consistent level of reporting, response and follow-up to a noise complaint (or EPA request), the complaints management protocol includes:

- Recording the details of the complaint.
- Establishing if the complaint relates to current activities (i.e. near real time) or a retrospective activity and following the TARP accordingly.
- The collection and collation of data from the site weather station and the real time noise monitoring units for the time applicable to the complaint for use in determination of the potential cause of the complaint and the identification of future remedial actions in accordance with the TARP.
- Recording the actions taken to address the complaint in a centralised engagement database.

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- Providing an initial response within 24 hours of receipt of a complaint.
- In some instances, where the noise levels could be exceeding the relevant noise limits, arrange for a mine representative to visit the locality of the complainant and observe the noise during the relevant day, evening or night period under similar weather conditions.
- Where a potential non-compliance has been identified targeted follow-up monitoring will take place to confirm the source of the complaint has been adequately mitigated.
- In accordance with Section 5.8, where the potential for material harms has been identified, Cadia will initiate a monitoring program that regularly reports the results to the affected landowners and tenants until the results show that the Cadia is complying with the relevant criteria.
- Additional measures may include visiting the complainant to discuss the nature of the complaint, the potential source of the noise and possible management options.

A community complaint report is included in the Annual Review with a summary of community complaints uploaded to the Cadia Valley Operations website. A summary of community complaint is also presented to the Cadia Community Consultative Committee (CCC) on a quarterly basis and included in the quarterly newsletter.

Details of complaints relating to noise will be provided to relevant mine planning and production personnel, to assist in the improvement of management practices. Actions to be taken in response to a noise complaint are described in Section 5.11.

5.10 Reporting and records

5.10.1 External reporting

Cadia's Project Approval PA 06_0895 and EPL 5590 have specific reporting requirements for incidents and non-compliances, including the submission of written reports, and annual reporting. These requirements and Cadia's approach to meeting these requirements is presented in Table 20.

Furthermore, Cadia completes reporting as per Schedule 5 Condition 5 and Appendix 9 Conditions 3 and 4, via the Quarterly Noise Corrective Action Report (February, May, August & November; if required) and is produced as required to track mitigation actions.

5.10.2 Landholder and CCC reporting

As presented in the Cadia Community Complaints Protocol which is available on the Cadia website, the reporting of exceedance results or monitoring data following a community concern or complaint will be undertaken directly with the affected landholder. Cadia will maintain records of all community consultation and engagement via its community stakeholder database.

Schedule 4 Condition 2 of the Cadia East Project Approval requires that all impacted landholders and tenants are notified of impacts generated by Cadia or the CDF that are greater than the relevant impact assessment criteria specified in Schedule 3 of the project Cadia East Project Approval. This means that where the noise monitoring described in Section 5.4 of this NMP, which does not meet the criteria provided in Table 3 or Table 4, must be reported to all landholders or tenants who may have been impacted by the noise emissions generated by Cadia or CDF. This notification is not required where a negotiated agreement has been entered into with a landholder.

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Summaries of community complaints will be presented to the Cadia Community Consultative Committee (CCC), published (monthly basis) on the Cadia website and presented in the Annual Review.

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Table 20: Reporting Requirements

Trigger	Requirements	Cadia's Reporting Commitments
Cadia East Project Approval PA 06_0895		
Non-Compliance	Schedule 5, Condition 5A The Applicant must provide the Department with a subsequent incident report in accordance with Appendix 9 (Incident Notification and Reporting Requirements).	The Secretary will be notified in accordance with the requirements of Appendix 9.
Non-compliance Notification	Schedule 5, Condition 5B Within seven days of becoming aware of a non-compliance, the Applicant must notify the Department of the non-compliance. The notification must be in writing and must be submitted via the NSW planning portal (Major Projects). The notification must identify the development (including the development application number and name), set out the condition of this approval that the development is non-compliant with, why it does not comply, the reasons for the non-compliance (if known), and what actions have been undertaken, or will be undertaken, and when, to address the non-compliance. <i>Note: A non-compliance which has been notified as an incident does not need to also be notified as a non-compliance.</i>	
Non-Compliance Incident (Notification of landowners)	Schedule 4, Condition 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	The Secretary and the affected landowners and tenants will be notified in writing within 2 weeks of any noise related non-compliance. If required; the monitoring results will be provided to the Secretary, the affected landowners and tenants until the results show that the Cadia operations are complying with the criteria in Schedule 3 of PA 06_0295. This will occur on a quarterly basis.

Trigger	Requirements	Cadia's Reporting Commitments
Cadia East Project Approval PA 06_0895		
	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.	
Incident	Schedule 3, Condition 9 The Proponent must prepare a NMP that: 9(d) include a noise monitoring program that: point 3 of the 9(d) 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.	Refer to NMP Section 5.8 for the protocol for identifying a noise incident
Incident	Schedule 5, Condition 5 The Applicant must notify the Department within 24 hours of becoming aware of an incident. The notification must be made via the NSW planning portal (Major Projects) and address details of the incident (refer to the full condition in PA 06_0895 for procedural requirements).	The Secretary will be notified in writing within 24 hours of a noise related incident being identified.
Access to Information	Schedule 5, Condition 9 Before the commencement of construction until the completion of all rehabilitation required under this approval, the Applicant must: (c) 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: <ul style="list-style-type: none"> • the EA; 	

Trigger	Requirements	Cadia's Reporting Commitments	
Cadia East Project Approval PA 06_0895			
	<ul style="list-style-type: none"> • 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 		
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Trigger	Requirements	Cadia's Reporting Commitments
Cadia East Project Approval PA 06_0895		
	<p>Audit of the project and the Applicants response to the recommendations in any audit report;</p> <ul style="list-style-type: none"> any other matter required by the Secretary; and <p>keep such information up to date, to the satisfaction of the Secretary.</p>	
Incident	<p>Appendix 9. Condition 1</p> <p>A written incident notification must be submitted to the Secretary via the Major Projects website within seven days after the Proponent becomes aware of an incident (refer to Appendix 9, Condition 2 of PA 06_0895 for content of the notification).</p>	<p>A written notification will be provided to the Secretary within seven days of a noise related incident being identified.</p>
Incident	<p>Appendix 9. Condition 3</p> <p>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 (refer to Appendix 9, Condition 4 of PA 06_0895 for content of the Incident Report).</p>	<p>A written report will be provided to the Secretary within 30 days of a noise related incident being identified.</p> <p>If required; Cadia will produce a Quarterly Noise Corrective Action Report (February, May, August & November) to report ongoing noise investigations and mitigation actions.</p>
Annual reporting	<p>Appendix 5. Condition 2</p> <p>By the end of March each year a report shall be submitted to the Department that reviews the environmental performance of the Cadia operations</p>	<p>As approved by DPHI via letter correspondence in January 2022, Cadia will submit their Annual Review no later 31 October each year.</p>
Environment Protection Licence 5590		

Trigger	Requirements	Cadia's Reporting Commitments
Cadia East Project Approval PA 06_0895		
Non-compliance	Section 6 Condition R1 A Statement of compliance must be included in each year's Annual Return (refer Section 6 of EPL 5590 for the reporting requirement of the Annual Return).	The Annual Return will include a statement of compliance with the noise limits in Section 3 of EPL 5590
Incident (Notification of Environmental Harm – as defined by the POEO Act)	Section 6 Condition R2 R2.1 Notifications must be made by telephoning the Environment Line service [Community Complaints Hotline] on 131 555. Note: The licensee or its employees must notify all relevant authorities of incidents causing or threatening material harm to the environment immediately after the person becomes aware of the incident in accordance with the requirements of Part 5.7 of the <i>Protection of the Environment Operations Act 1997</i> . R2.2 The licensee must provide written details of the notification to the EPA within 7 days of the date on which they became aware of the incident.	A written report will be provided to the Secretary within 30 days of a noise related incident being identified. A written report will be provided to the EPA within 7 days of a noise related incident being identified.
	Section 5 condition M4 M4.4 The results of the noise monitoring required by condition M4.3, and an interpretation of these results, must be provided to the EPA within 21 days of the completion of the noise monitoring.	The outcome from noise monitoring completed as a result of the complaints management protocol will be reported in accordance with condition M4.4.

5.11 Corrective actions

5.11.1 Trigger Action Response Plan (TARP)

Schedule 3, Condition 9 of the Project Approval PA 06_0895, requires the preparation of a Noise Trigger Action Response Management Plan (the Noise TARP) that outlines the process for responding to noise complaints and elevated real time and attended noise monitoring results (Noise TARP 710-283-EN-STR-0002).

The Noise TARP has been developed to provide:

- guidance on the implementation of mitigation measures,
- assign responsibilities for the implementation of mitigation measures, and
- facilitate management of noise impacts from operational activities causing elevated noise levels.

When a Noise TARP is triggered by a noise complaint, a real-time noise monitoring result or attended noise monitoring result, the Noise TARP defines the minimum set of actions required by workers in response to a deviation from normal working conditions.

The Noise TARP is used by Cadia to demonstrate the relationship between conditions in:

- a low risk environment (normal operations);
- a moderate risk environment; and
- a high risk environment.

The Noise TARP is continually optimised as the understanding of each trigger event improves and more information becomes available. Updates of the Noise TARP may be made and implemented without updating this NMP.

Community complaints are included in the Noise TARP, however the primary process for managing community complaints is the Cadia Community Complaints Protocol which is available on the Cadia website (<https://www.cadiavalley.com.au>).

5.11.2 Additional measures

Upon receiving a written request from the landowner of the properties identified in Schedule 3, Condition 7, subsequent privately-owned land (identified in Schedule 3, Condition 7) and/or landowners of residences (identified in Schedule 3, Condition 7) additional noise mitigation measures will be applied.

If conditions (outlined in Schedule 3, Condition 7) were to occur, additional mitigation measures such as double glazing, insulation, and/or air conditioning at any residence on the land (within reason and feasibility) will be implemented after consultation.

The noise mitigation measures that are considered must be feasible and reasonable and directly related to the mitigation of the noise impacts from the Cadia operations.

5.11.3 Acquisition and review

Upon receiving a written request from the landowner of the property identified in Schedule 3, Condition 1, the identified property will be acquired.

In accordance with Schedule 3, Condition 3, upon receiving a written request from the landowner of the property where noise generated by the project exceeds the criteria in Schedule 3 Table 3, the identified property will be acquired in accordance with the procedures in Schedule 4, Conditions 5-7.

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Upon receiving a written request from the Secretary, Cadia will initiate an independent review of the noise impacts on a privately-owned land in accordance Schedule 4, Condition 3. The results of the independent review will be provided to the Secretary and landowner.

5.11.4 Dispute resolution

If within 3 months of receiving this request from the landowner, Cadia 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.

6 REVIEW AND IMPROVEMENT

6.1 Performance review

Periodic reviews of Cadia’s performance against the established environmental and social objectives and targets are conducted by Cadia management. The purpose of the reviews is to check performance against indicators and to identify improvement actions in the event the data trajectory isn’t tracking as planned which considers:

- Evaluate and report on compliance with the performance measures;
- Identify any trends in the monitoring data over the life of the project; and
- Identify any discrepancies between the predicted and actual impacts of the project, and analyse the potential cause of any significant discrepancies.

These reviews are in addition to the detailed review of environmental and social performance data undertaken as part of annual reporting processes.

Refer to the CEMS document for further detail on the performance review process.

6.2 Auditing and inspections

6.2.1 Internal audits

Procedures are in place for measuring, assessing, and improving environmental and community performance through internal audits. Refer to the CEMS document for further detail on the internal audit process.

6.2.2 External audits

The Project Approval (Schedule 5, Condition 7) requires that periodic independent compliance audits are undertaken in accordance with the *Independent Audit Post Approval Requirements (2020)* or as updated from time to time. The audits and the recording and documentation of outcomes follow a standardised process as described in the CEMS document.

6.2.3 Inspections

Environmental Inspections are conducted on a routine basis across operational areas at Cadia. The purpose of the inspections is to ensure compliance with Cadia’s approvals and commitments. Inspections focus on general environment risk mitigation and are planned, assigned, and completed as per the internal procedures and templates referenced in the CEMS document.

6.3 Continual improvement

Processes to strive towards continual improvement of environmental and social performance have been developed and are implemented as described in the CEMS document. Key aspects of continual improvement procedures are incorporated into annual work plans and annual objectives and target setting.

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6.4 Management plan review

A procedure has been developed for the review and update of management plans. This procedure requires that management plans are reviewed and where necessary updated following a key change in the site's approvals, changes to monitoring sites or frequency, or an update of the site risk register. Further detail on the process of management plan review is included in the CEMS document.

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APPENDIX A- DEPARTMENTAL APPROVAL OF SUITABLY QUALIFIED, EXPERIENCED AND INDEPENDENT PERSON -

Department of Planning, Housing & Infrastructure



Our ref: MP06_0295-PA-179

David Coe
Manager – Environment and Social Performance
Cadia Valley Operations
1460 Cadia Road
Orange NSW 2800
26/2/2024

Subject: Cadia Noise Management Plan Review – Approval of Acoustic Consultant

Dear Mr Coe,

I refer to your request (MP06_0295-PA-179) for the Secretary's approval of Tim Proctor of Umwelt Environmental & Social Consultants to review and revise the Cadia Noise Management Plan

The Department of Planning, Housing and Infrastructure (the Department) has reviewed the nomination and information you have provided and is satisfied that Tim Proctor is suitably qualified and experienced. Accordingly, Secretary approves the appointment of Tim Proctor to review and revise the Noise Management Plan for Cadia Mine.

The Noise Management Plan must be reviewed and revised to ensure it meets the requirements of Schedule 3, Condition 9 of MP06_0295.

With respect to the request for an extension of time for the submission of the revised Noise Management Plan, the Department considers an additional 6 weeks to be sufficient time to incorporate any findings of the Independent Environmental Audit. The revised Noise Management Plan is to be submitted to the Major Projects Portal no later than Friday 26th April 2024.

If you wish to discuss the matter further, please contact Katie Weekes on (02) 4927 3223 or via email at katie.weekes@dpie.nsw.gov.au.

Yours sincerely

A handwritten signature in black ink, appearing to be "S O'Donoghue".

Stephen O'Donoghue
Director Resource Assessments
As nominee of the Planning Secretary

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