# DURALIE COAL MINE
## NOISE MANAGEMENT PLAN

### Section/Page/Annexure | Revision Number | Amendment/Addition | Distribution | DP&E Approval Date
---|---|---|---|---
All | NMP-R01-A | Original | OEH, DP&I | -
All | NMP-R02-A | Edits made to:
- reflect amended Project Approval conditions by Order of The Land and Environment Court of NSW dated 10 November 2011;
- consider recommendations (where relevant) of independent environmental audit dated November 2011;
- consider any outcomes of the Annual Review for the Duralie Coal Mine (dated September 2011); and
- reflect conditions of EPL 11701 varied by Notice 1502222 on 30 December 2011. | OEH, DP&I | -
All | NMP-R02-B | Edits made to reflect DP&E comments. | DP&E | -
All | NMP-R02-C | Edits made to reflect DP&E comments. | DP&E | -
Section 7.6 | NMP-R02-D | Edits made to reflect DP&E comments. | DP&E | 29-3-2012
All | NMP-R02-E | Review/Edits made to:
- reflect the Notice of Modification to Project Approval 08_0203 issued 1 November 2012; and
- reflect the Annual Review (2012). | DP&E | 2-7-2013
All | NMP-R03-A | Annual Review (2013) and recommendations from DP&E Audit December 2013 | DP&E | -
All | NMP-R04-A | Review/Edits made to:
- reflect the Notice of Modification to Project Approval 08_0203 issued 05 December 2014;
- reflect the Annual Review (2014); and
- address DP&E review comments. | DP&E | 7-3-2016
Section 7.5 | NMP-R05-A | Revised to reflect DP&E comments on 2016 Annual Review. | DP&E | 25-08-2017
All | NMP-R06-A | Revised to address recommendations from Independent Environmental Audit 2017. | DP&E | 09-05-2018

May 2018
Document No. NMP-R06-A
# DURALIE COAL MINE NOISE MANAGEMENT PLAN

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<tr>
<th>DOCUMENT NO:</th>
<th>REPORT CODE:</th>
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<td>29N-15-0023-PPI-472666-0</td>
<td>PPI</td>
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**DISTRIBUTION**

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<thead>
<tr>
<th>Copy No.</th>
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<tbody>
<tr>
<td>1</td>
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**KEYWORDS:**

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This document has been compiled in conjunction with VIPAC Engineers based on previous revision compiled by SLR consulting and Resource Management and drawing reference from the documents listed in Section 11 of this document.
1 INTRODUCTION

1.1 DURALIE COAL MINE

The Duralie Coal Mine (DCM) is an existing mine situated approximately 35 kilometres (km) south of Gloucester in the Gloucester Valley, New South Wales (NSW) (Figure 1). Duralie Coal Pty Ltd (DCPL) (a wholly owned subsidiary of Yancoal Australia Limited) owns and operates the DCM. The NSW Minister for Urban Affairs and Planning granted Development Consent for the DCM in August 1997 and coal production commenced in 2003.

The Duralie Extension Project involves the extension and continuation of mine operations at the DCM. DCPL was granted approval for the Duralie Extension Project under section 75J of the NSW Environmental Planning and Assessment Act, 1979 (EP&A Act) on 26 November 2010 (NSW Project Approval [08_0203]) and under sections 130 and 133 of the Commonwealth Environment Protection and Biodiversity Conservation Act, 1999 (EPBC Act) on 22 December 2010 (Commonwealth Approval [EPBC 2010/5396]). On 10 November 2011, the NSW Project Approval (08_0203) was amended by Order of The Land and Environment Court of NSW. On 1 November 2012, the NSW Project Approval (08_0203) was modified as a result of the Duralie Rail Hours Modification. On the 5 December 2014 a second modification titled Duralie Open Pit Modification was approved with details described within the consolidated NSW Project Approval (08_0203). A copy of the consolidated NSW Project Approval (08_0203) and the Commonwealth Approval (EPBC 2010/5396) is available on the DCPL website (http://www.duraliecoal.com.au).

The main activities associated with the Duralie Extension Project include:

- continued development of open cut mining operations at the DCM to facilitate a total run-of-mine (ROM) coal production rate of up to approximately 3 million tonnes per annum (Mtpa), including:
  - extension of the existing approved open pit in the Weismantel Seam to the north-west (i.e. Weismantel Extension open pit) within Mining Lease (ML) 1427 and ML 1646; and
  - open cut mining operations in the Clareval Seam (i.e. Clareval North West open pit) within ML 1427 and ML 1646;
- ongoing exploration activities within existing exploration tenements;
- progressive backfilling of the open pits with waste rock as mining develops, and continued and expanded placement of waste rock in out-of-pit waste rock emplacements;
- increased ROM coal rail transport movements on the North Coast Railway between the DCM and the Stratford Coal Mine (SCM) in line with increased ROM coal production;
- continued disposal of excess water through irrigation (including development of new irrigation areas within the existing ML 1427 and ML 1646);
- raising of the existing approved Auxiliary Dam No.2 from relative level (RL) 81 metres (m) to approximately RL 100 m to provide significant additional on-site storage capacity to manage excess water on-site;
- progressive development of dewatering bores, pumps, dams, irrigation infrastructure and other water management equipment and structures;
- development of new haul roads and internal roads;
- upgrade of existing surface facilities and supporting infrastructure as required in line with increased ROM coal production;
- continued development of soil stockpiles, laydown areas and gravel/borrow pits;
- establishment of permanent Coal Shaft Creek alignment adjacent to the existing DCM mining area;
- ongoing surface monitoring and rehabilitation; and
- other associated minor infrastructure, plant, equipment and activities.
The general arrangement of the DCM, showing modifications, is provided in Figure 2.
1.2 PURPOSE AND SCOPE
This Noise Management Plan (NMP) has been prepared by DCPL in accordance with Condition 7, Schedule 3 of Project Approval (08_0203).

This revision of the NMP has been prepared by DCPL to consider the recommendations from the DCM Independent Environmental Audit 2017 and considers changes to the monitoring program during non-operational times. This is in accordance with the requirements of Condition 4, Schedule 5 of the NSW Project Approval.

1.3 STRUCTURE OF THE NMP
The remainder of the NMP is structured as follows:

Section 2: Outlines the statutory requirements applicable to the NMP.
Section 3: Describes key noise generating activities.
Section 4: Details the noise criteria and performance indicators that will be used to assess the DCM.
Section 5: Provides detailed baseline data.
Section 6: Describes noise management measures.
Section 7: Describes the noise monitoring program.
Section 8: Provides a Contingency Plan to manage any unpredicted impacts and their consequences.
Section 9: Describes the annual review and improvement of environmental performance process.
Section 10: Describes the management and reporting of incidents, complaints, non-compliances and exceedances.
Section 11: Lists the references cited.
2 STATUTORY REQUIREMENTS

DCPL’s statutory obligations are contained in:

(i) the conditions of the NSW Project Approval (08_0203);
(ii) the conditions of the Commonwealth Approval (EPBC 2010/5396);
(iii) as described in Section 2.2 licences and permits, including conditions attached to mining leases; and
(iv) other relevant legislation (as provided in Section 2.3 of this document).

Obligations relevant to this NMP are described below.

2.1 EP&A ACT PROJECT APPROVAL

The conditions of the NSW Project Approval (08_0203) relevant to the NMP are described below in Table 1. A comprehensive list of all conditions in the NSW Project Approval relevant to noise management, and a description of where they are referenced in this NMP, is provided in Appendix A.

2.1.1 NOISE MANAGEMENT PLAN

Condition 7, Schedule 3 of the NSW Project Approval (08_0203) requires the preparation of a NMP:

Table 1

<table>
<thead>
<tr>
<th>Noise Management Plan Requirements</th>
<th>NSW Project Approval Condition</th>
<th>NMP Section</th>
</tr>
</thead>
<tbody>
<tr>
<td>7. The Proponent shall prepare and implement a Noise Management Plan for the project to the satisfaction of the Secretary. This plan must:</td>
<td>7. The Proponent shall prepare and implement a Noise Management Plan for the project to the satisfaction of the Secretary. This plan must:</td>
<td>Section 7</td>
</tr>
<tr>
<td>(a) be prepared in consultation with EPA, and submitted to the Secretary for approval within 3 months of the date of this approval, unless otherwise agreed by the Secretary;</td>
<td>(a) be prepared in consultation with EPA, and submitted to the Secretary for approval within 3 months of the date of this approval, unless otherwise agreed by the Secretary;</td>
<td>N/A</td>
</tr>
<tr>
<td>(b) describe the noise mitigation measures that would be implemented to ensure compliance with conditions 2-6 of Schedule 3 of this approval, including:</td>
<td>(b) describe the noise mitigation measures that would be implemented to ensure compliance with conditions 2-6 of Schedule 3 of this approval, including:</td>
<td>Section 6</td>
</tr>
<tr>
<td>• a real-time noise management system that employs both reactive and proactive mitigation measures;</td>
<td>• a real-time noise management system that employs both reactive and proactive mitigation measures;</td>
<td>Section 7.3</td>
</tr>
<tr>
<td>• a detailed program for the replacement or attenuation of existing plant on site; and</td>
<td>• a detailed program for the replacement or attenuation of existing plant on site; and</td>
<td>Section 6.2.2</td>
</tr>
<tr>
<td>• the specific measures that would be implemented to minimise the rail noise impacts of the project, and in particular:</td>
<td>• the specific measures that would be implemented to minimise the rail noise impacts of the project, and in particular:</td>
<td>Section 6.2.3</td>
</tr>
<tr>
<td>– the braking and train horn impacts of the project; and</td>
<td>– the braking and train horn impacts of the project; and</td>
<td>Section 6.2.2</td>
</tr>
<tr>
<td>– the use of the shuttle train during the approved night-time hours; and</td>
<td>– the use of the shuttle train during the approved night-time hours; and</td>
<td></td>
</tr>
<tr>
<td>• the construction of earth bund walls around evaporative fan units located on the waste rock emplacement area; and:</td>
<td>• the construction of earth bund walls around evaporative fan units located on the waste rock emplacement area; and:</td>
<td></td>
</tr>
<tr>
<td>(c) include a noise monitoring program that:</td>
<td>(c) include a noise monitoring program that:</td>
<td>Section 7.2</td>
</tr>
<tr>
<td>• uses a combination of real-time and supplementary attended monitoring measures to evaluate the performance of the project;</td>
<td>• uses a combination of real-time and supplementary attended monitoring measures to evaluate the performance of the project;</td>
<td>Section 7.3</td>
</tr>
<tr>
<td>• includes a program to evaluate the effectiveness of the noise mitigation measures referred to in 7(b) above;</td>
<td>• includes a program to evaluate the effectiveness of the noise mitigation measures referred to in 7(b) above;</td>
<td>Section 7.7</td>
</tr>
<tr>
<td>• includes a protocol for determining exceedences of the relevant conditions of this approval; and</td>
<td>• includes a protocol for determining exceedences of the relevant conditions of this approval; and</td>
<td>Section 7.3.4</td>
</tr>
<tr>
<td>• includes a program to monitor the actual sound power levels of the plant on site, compare it with the benchmark levels used in the EA, and evaluate the effectiveness of any attenuation.</td>
<td>• includes a program to monitor the actual sound power levels of the plant on site, compare it with the benchmark levels used in the EA, and evaluate the effectiveness of any attenuation.</td>
<td>Section 7.5</td>
</tr>
</tbody>
</table>

Note: The effectiveness of the Noise Management Plan is to be reviewed and audited in accordance with the requirements in Schedule 5. Following this review and audit, the plan is to be revised to ensure it remains up to date (see Condition 4 of Schedule 5).
2.1.2 MANAGEMENT PLAN REQUIREMENTS

Condition 2, Schedule 5 of the NSW Project Approval outlines the management plan requirements that are applicable to the preparation of the NMP. Table 2 presents these requirements and indicates where they are addressed within this NMP.

Table 2 - Management Plan Requirements

<table>
<thead>
<tr>
<th>NSW Project Approval Condition</th>
<th>NMP Section</th>
</tr>
</thead>
<tbody>
<tr>
<td>2. The Proponent shall ensure that the management plans required under this approval are prepared in accordance with any relevant guidelines, and include:</td>
<td></td>
</tr>
<tr>
<td>a) detailed baseline data;</td>
<td>Section 5</td>
</tr>
<tr>
<td>b) a description of:</td>
<td></td>
</tr>
<tr>
<td>• the relevant statutory requirements (including any relevant approval, licence or lease conditions);</td>
<td>Section 2 and Appendix A</td>
</tr>
<tr>
<td>• any relevant limits or performance measures/criteria;</td>
<td>Section 4 and Appendix A</td>
</tr>
<tr>
<td>• the specific performance indicators that are proposed to be used to judge the performance of, or guide the implementation of, the project or any management measures;</td>
<td></td>
</tr>
<tr>
<td>c) a description of the measures that would be implemented to comply with the relevant statutory requirements, limits, or performance measures/criteria;</td>
<td>Section 6</td>
</tr>
<tr>
<td>d) a program to monitor and report on the:</td>
<td>Section 7</td>
</tr>
<tr>
<td>• impacts and environmental performance of the project;</td>
<td></td>
</tr>
<tr>
<td>• effectiveness of any management measures (see (c) above);</td>
<td></td>
</tr>
<tr>
<td>e) a contingency plan to manage any unpredicted impacts and their consequences;</td>
<td>Section 8</td>
</tr>
<tr>
<td>f) a program to investigate and implement ways to improve the environmental performance of the project over time;</td>
<td>Section 9</td>
</tr>
<tr>
<td>g) a protocol for managing and reporting any;</td>
<td>Section 10</td>
</tr>
<tr>
<td>• incidents;</td>
<td></td>
</tr>
<tr>
<td>• complaints;</td>
<td></td>
</tr>
<tr>
<td>• non-compliances with statutory requirements; and</td>
<td></td>
</tr>
<tr>
<td>• exceedences of the impact assessment criteria and/or performance criteria; and</td>
<td></td>
</tr>
<tr>
<td>h) a protocol for periodic review of the plan.</td>
<td>Section 9</td>
</tr>
</tbody>
</table>

Note: The Secretary may waive some of these requirements if they are unnecessary or unwarranted.

2.2 LICENCES, PERMITS AND LEASES

In addition to the NSW Project Approval (08_0203) and Commonwealth Approval (EPBC 2010/5396), all activities at DCM will be conducted in accordance with a number of licences, permits and leases which have been issued or are pending issue.

Key licences, permits and leases pertaining to the DCM include:

- ML 1427 issued under Part 5 of the NSW Mining Act, 1992 and approved by the NSW Minister for Mineral Resources in April 1998.
- ML 1646 issued under Part 5 of the NSW Mining Act, 1992 and approved by the NSW Minister for Primary Industries in January 2011.
- Mining Operations Plan submitted to Department of Planning & Environment - Division of Resources and Geoscience and approved on 11 December 2017.
- Mining and occupational health and safety related approvals granted by DTIRIS and WorkCover NSW.
2.3 OTHER LEGISLATION
DCPL will conduct the DCM consistent with the NSW Project Approval (08_0203), the Commonwealth Approval (EPBC 2010/5396) and any other legislation that is applicable to an approved Part 3A Project under the EP&A Act.

2.4 RAIL TRANSPORT
Trains transporting coal from the DCM will travel on the North Coast Railway, which is controlled and operated by the Australian Rail Track Corporation (ARTC). Noise emissions from the railway are regulated via the ARTC’s EPL (No. 3142).

3 KEY NOISE GENERATING ACTIVITIES

3.1 CONSTRUCTION
Construction noise from the Duralie Extension Project will be associated with the mobile equipment required for the development of new haul and internal roads and earth bunds.

3.2 MINE OPERATION
The key noise generating activities/equipment from the operation of the DCM is as follows:
- drills;
- blasting;
- excavators;
- haul trucks;
- dozers;
- mobile fleet;
- evaporative fan installations
- rotary breaker; and
- rail loading facilities.

The approved hours of operation for these activities are shown in Table 3.

<table>
<thead>
<tr>
<th>Phase</th>
<th>Hours of operation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Blasting</td>
<td>9am – 5pm¹</td>
</tr>
<tr>
<td>Mining operations</td>
<td>24 hours</td>
</tr>
<tr>
<td>Evaporative fan operations</td>
<td>24 hours</td>
</tr>
<tr>
<td>Dispatching shuttle trains</td>
<td>6am – 10pm²</td>
</tr>
<tr>
<td>Receiving shuttle trains</td>
<td>6am – midnight³</td>
</tr>
</tbody>
</table>

¹ No blasting is allowed on Sundays, public holidays, or at any other time without the written approval of the Secretary, in accordance with Condition 9, Schedule 3 of the NSW Project Approval.
² In accordance with Condition 8, Schedule 2 of the NSW Project Approval.
³ Although the above operations are approved for each of their individual applicable periods, the activities will only be utilised as required during the specified periods.
3.3 RAIL TRANSPORT

The DCM is approved to produce up to 3 Mtpa of ROM coal that is transported by a dedicated 2,500 tonne (t) shuttle train to the SCM located some 20 km to the north. The approved hours of operation of the Duralie shuttle train are between 6.00 am and midnight (i.e. 18 hours). In exceptional circumstances, the Duralie shuttle train may operate on the North Coast Railway between midnight and 1.00 am in accordance with Condition 8, Schedule 2 of the NSW Project Approval. Within 12 hours of operating shuttle trains on the North Coast railway between midnight and 1am in exceptional circumstances, DCPL will provide a detailed explanation of the exceptional circumstances on the DCPL website in accordance with Condition 8A, Schedule 2 of the NSW Project Approval.

Up to 10 train movements per day will be directly associated with DCM operations. These trains will generate pass-by noise at receivers in close proximity to the railway line.

Trains originating from the DCM will be controlled and operated by Aurizon (formerly QR National) once they have left the DCM. The ARTC manages access to the railway line, as stated in Section 2.4.

In accordance with Condition 5, Schedule 3 of the NSW Project Approval, the DCM will continue to only use locomotives that are approved to operate on the NSW rail network, in accordance with the noise limits in the ARTC's EPL (No. 3142) (Section 4.1.3).

4 NOISE CRITERIA AND PERFORMANCE INDICATORS

4.1 PROJECT APPROVAL CONDITIONS

4.1.1 NOISE CRITERIA AND NOISE ACQUISITION CRITERIA

Noise criteria and noise acquisition criteria are provided in Conditions 2 and 3, Schedule 3 of the NSW Project Approval, respectively (Appendix A) or alternatively on the website http://www.duraliecoal.com.au.

Condition 2(b), Schedule 4 of the NSW Project Approval describes the requirement for notifying land owners that they have the right to request acquisition of their land subject to Condition 3, Schedule 3 of the NSW Project Approval.

4.1.2 ADDITIONAL NOISE MITIGATION MEASURES

In addition to the noise criteria and noise acquisition criteria from the NSW Project Approval, Condition 4, Schedule 3 of the NSW Project Approval lists the additional noise mitigation requirements (Appendix A).

Condition 1(b), Schedule 4 of the NSW Project Approval describes the requirement for notifying the owners of land listed in Conditions 4(b) and 4(c), Schedule 3 of the NSW Project Approval that they are entitled to ask for additional noise mitigation measures to be implemented at their residence in accordance with Condition 4, Schedule 3 of the NSW Project Approval.

In addition, Condition 1A, Schedule 4 of the NSW Project Approval describes the requirement for a Consultation Plan for the implementation of additional noise mitigation measures at the residences listed in Condition 4(c), Schedule 3 of the NSW Project Approval.

4.1.3 RAIL NOISE

Condition 5, Schedule 3 of the NSW Project Approval details the requirements to manage rail noise (Appendix A).
4.1.4 OPERATING CONDITIONS
The noise-related operating conditions required under the NSW Project Approval are detailed in Condition 6, Schedule 3 (Appendix A).

4.2 ENVIRONMENT PROTECTION LICENCE CONDITIONS
4.2.1 MINE OPERATIONS
The operational noise limits for the DCM are contained in EPL 11701 and are consistent with the NSW Project Approval (refer Section 4.1.1).

4.2.2 RAIL TRANSPORT
Condition 5, Schedule 3 of the NSW Project Approval makes specific reference to locomotive noise limits in the ARTC’s EPL (Section 4.1.3).

The ARTC’s EPL (No. 3142) includes requirements for approval of locomotives on the basis of compliance with the locomotive noise limits, as follows:

### L2.5 EPA Locomotive Noise Limits

<table>
<thead>
<tr>
<th>Operating Condition</th>
<th>Location of Measurement</th>
<th>Noise Limit - Microphone height: 1.5 metres above</th>
</tr>
</thead>
<tbody>
<tr>
<td>Low idle with compressor radiator fans and air conditioning operating at maximum load occurring at low idle</td>
<td>Stationary 15 metre contour, except end positions (front and rear)</td>
<td>70 dB(A) LAMax, F, 30s</td>
</tr>
<tr>
<td>All other throttle settings under self-load with compressor radiator fans and air conditioning operating</td>
<td>Stationary 15 metre contour, except end positions (front and rear)</td>
<td>87 dB(A) LAMax, F, 30s 95 dB LZMax, F, 30s</td>
</tr>
</tbody>
</table>

Notwithstanding Condition L2.5, the ARTC’s EPL (No. 3142) also includes provision for approval of locomotives not meeting all locomotive noise limits as follows:

**L2.9 Approval of Locomotives Not Meeting All EPA Limits**

The EPA may approve locomotives that do not comply with all limits prescribed by L2.6 and L2.7, if that the application for approval demonstrates, to the satisfaction of the EPA, that:

a) the noise emission performance of the locomotive is consistent with current best practice; and

b) all measures for minimising the extent of any non-compliance have been investigated and those that are identified as reasonable and feasible have been implemented; and

c) none of the non-compliances will result in unacceptable environmental impacts.
4.3 RAIL MITIGATION MEASURES

A notification requirement with respect to an 85 dBA maximum pass-by rail traffic noise criteria is set out in Condition 2(c), Schedule 4 of the NSW Project Approval (Appendix A). Additionally a requirement for mitigation is set out in Condition 4(e), Schedule 3 upon receiving a written request from the owner of the relevant residence. This criterion is generally consistent with the 85 A-weighted decibels (dBA) maximum pass-by noise (95th percentile) rail noise assessment trigger levels described in the Rail Infrastructure Noise Guideline (RING) (EPA, 2013).

The maximum pass-by noise trigger level does not comprise a compliance limit for the DCM in either the NSW Project Approval or EPL 11701. However, for the purposes of satisfying the requirements of Condition 4(e), Schedule 3 of the NSW Project Approval, in accordance with the RING DCPL will apply a noise goal criteria of $L_{A_{max}}$ 85 dBA (95th percentile [or 5% exceedance]) and apply façade correction (i.e. assessment/calculation would be undertaken at 1m in front of the relevant building) to determine any relevant notification requirements.

Additional cumulative rail noise assessment trigger levels for rail traffic-generating developments are described in Appendix 2 of the RING for daytime [$L_{A_{eq,15hour}}$ 65 dB(A)] and night-time [$L_{A_{eq,9hour}}$ 60 dB(A)], however, these do not comprise a compliance limit for the DCM in either the NSW Project Approval (08_0203) or EPL 11701.
5 BASELINE DATA

5.1 BACKGROUND NOISE
A detailed description of background noise is provided in the Duralie Open Pit Modification Noise and Blasting Impact Assessment (SLR, 9th July 2014) which is available on the DCPL website (www.duraliecoal.com.au).

5.2 METEOROLOGICAL MONITORING
A detailed description of baseline meteorology is provided in the Duralie Open Pit Modification Noise and Blasting Impact Assessment (SLR, 9th July 2014) which is available on the DCPL website (www.duraliecoal.com.au).

DCPL has installed appropriate equipment to measure both weather conditions and temperature lapse rates in accordance with Condition 24, Schedule 3 of the NSW Project Approval. The DCM weather station is configured to continuously record meteorological parameters such as temperature, wind speed, wind direction, sigma-theta, and rainfall. In accordance with Condition M5.1 of EPL 11701, temperature lapse rates will be continuously measured over a minimum vertical height interval of 50 m. This will be achieved through the installation of two 10 m towers, located in positions with an elevation differential greater than 50 m, as shown on Figure 3. This equipment has been supplied and installed by a suitably qualified supplier.

5.3 RAIL NOISE MONITORING
Field measured intrusive and maximum (i.e. average and 5% exceedance noise levels) for the existing passenger, general freight, DCM and SCM train pass-bys at 12 m offset from the North Coast Railway are provided in the Duralie Extension Project Noise and Blasting Impact Assessment (Heggies, 2010a) which is available on the DCPL website (www.duraliecoal.com.au).
6 NOISE MANAGEMENT MEASURES

DCPL will continue to implement measures to ensure noise from the DCM is managed to approved levels, through a combination of the following:

- ensuring best management practices are implemented and reviewed;
- implementing noise controls to reduce noise from the source and attenuate noise transmission; and
- if necessary, implementing measures to control noise at receivers following a review of monitoring data.

The effectiveness of noise management measures at the DCM will be assessed through real-time and attended noise monitoring (refer to Section 7 of this NMP).

6.1 BEST MANAGEMENT PRACTICE

The following best practice noise management measures will continue to be implemented at the DCM (DCPL, 2007):

- An awareness and understanding of noise issues will be included in site inductions for all staff, contractors and visitors to the DCM.
- An awareness of exceedance of noise criteria at the real time noise monitor will be included in pre shift meeting to help reduce occurrence of noise criteria exceedances at private residences.
- The use of significant noise generating equipment simultaneously will be avoided wherever possible.
- The noisiest activities will be scheduled where practicable to the least sensitive times of the day.
- Weather conditions will be monitored (as per Section 7.4) and where adverse conditions are experienced or predicted, operational changes will be made to avoid or reduce noise impacts.
- All machinery and plant used on site, as well as conveyor belt drives, dedicated locomotives and rolling stock, will be maintained regularly to minimise noise generation.
- Train horns will not be permitted as a means of communication by the drivers of trains during coal loading activities.
- Train Horns are to be sounded briefly under the DSN 60/14 directive issued by Pacific National, and adopted by the ARTC on the 22 September 2014. The sounding of the horn is part of the crossing safety procedure but the “Horn type and duration of use will still be at the driver’s discretion for any perceived risks”.
- Waste rock will be strategically placed to provide acoustic barriers, wherever practicable.
- The volume of reversing sirens and start-up alarms will be reduced to the minimum practicable level (while still complying with coal mine safety regulations) and the least intrusive reversing alarms will be used.
- Low noise mobile and fixed plant equipment will be used where practically achievable.
- Noise monitoring will include a combination of real-time and attended monitoring of mine-generated noise, as well as a program to monitor the SWLs of the plant on site.
- Operation of a meteorological station to aid noise mitigation measures and the identification of noise enhancing conditions will be continued (refer to Section 7.4).
- An awareness of industry developments will be maintained in relation to noise mitigation engineering for individual plant items in order to assess inherent cost and practicality.
- An awareness of industry developments will be maintained in relation to predictive noise mitigation management.
- In addition to the measures above, the DCM shuttle train wagons and locomotives have been replaced and DCPL has implemented contractual arrangements with the Train Operator regarding locomotive noise performance (Section 6.2.3).

1 This will be implemented in accordance with Schedule 2, Condition 13 of the DCM Project Approval, which relates to the operation of plant and equipment.
6.2 SOURCE AND TRANSMISSION NOISE CONTROLS

6.2.1 IMPLEMENTED MITIGATION MEASURES FOR MINING OPERATIONS

The following measures to control at-source noise have been implemented at the DCM (DCPL, 2007):

- Utilisation of low noise mobile equipment and fixed plant where practically and economically achievable.
- Placing waste materials to the east of the open pit in order to provide an acoustic barrier.
- Maintaining equipment at or below manufacturer’s acoustic specifications.
- Positioning the primary crushing station within an earthen cutting.
- Orientation of the bay opening of the heavy vehicle maintenance facility away from the nearest receivers.
- Directing trucks with tray body exhausts to lower their trays before moving off when tipping on the waste dump at night.
- Directing the ROM loader to reverse to the west from the bin and away from receivers along Johnsons Creek Road to minimise directional noise emissions (e.g. reversing alarm, engine noise).

6.2.2 ADDITIONAL MITIGATION MEASURES FOR MINING OPERATIONS

DCPL has implemented reasonable and feasible on-site noise controls at the DCM, including the attenuation of mobile plant (e.g. for haul trucks). For the Modification, DCPL would also construct earth bund walls up to 10 m above ground elevation on the southern and western sides of the evaporator units operating on the waste rock emplacement, and newer model evaporator units would be attenuated. The noise management measures described above were included in the noise modelling conducted for the Modification (Appendix A of the Duralie Open Pit modification Environmental Assessment).

Additional Noise Management Measures

The DEP Statement of Commitments includes noise management measures additional to those described above. The noise modelling conducted for the Modification did not include these additional noise management measures and, notwithstanding, a reduction in approved noise levels was predicted for the Modification. The maximum predicted operational noise levels presented in Table 4-1 (of the Duralie Open Pit modification Environmental Assessment) demonstrate these additional noise management measures are no longer required and, therefore, are not proposed to be adopted for the remainder of the DCM mine life. In particular, this is because mobile plant are now operating approximately 60 m deeper in the Clareval open pit up in comparison to the DEP noise modelling scenario (Year 5 of the DEP) that typically resulted in maximum predicted noise levels at surrounding residences. The depth of the open pit attenuates noise from this mobile plant (e.g. excavators, dozers and haul trucks) in comparison to the DEP noise model predictions. The existing real-time noise monitoring, investigation triggers and associated management measures described in the Noise Management Plan would continue for the Modification to achieve compliance with Project Approval noise limits.

As shown in Table 4 the operational mobile fleet at the DCM will be reduced from 2016 to 2019. Additionally, all un-attenuated CAT789 haul trucks would be removed from service.
6.2.3 DURALIE SHUTTLE TRAIN OPERATIONS

With respect to mitigating noise from rail traffic-generating developments, the RING (Appendix 2) indicates:

For a traffic-generating development like a coal mine, the proponent would not have control over the public rail infrastructure. Consequently they would have limited opportunities to implement mitigation, such as noise barriers. In such cases, control of noise and vibration at the source is the most effective means of mitigation.

Section 3.5.1.1 of the RING also indicates that keeping rail vehicles well maintained is important and this should be given high priority in any mitigation strategy. The RING also indicates that other sources that should be given high priority are those with annoying characteristics, including brake squeal. In addition, the RING advocates scheduling noisy operations at the least sensitive times, employing ‘quiet’ practices when operating equipment, and educating staff on the need to avoid unnecessary noise.

The following outlines a range of measures that DCPL and the rail contractor employs to minimise noise generation from the shuttle train (i.e. at the source).

**GL Class Locomotives (or Equivalent)**

DCPL requires that the locomotives provided by the Train Operator be GL Class (or equivalent noise performance), and that the Train Operator only uses locomotives on the shuttle that are approved to operate on the NSW rail network in accordance with the noise limits in the ARTC’s EPL (No. 3142) as per Condition 5, Schedule 3 of the NSW Project Approval (08_0203).

**Minimisation of Duralie Shuttle Train Operations during the Night**

The approved hours of operation of the Duralie shuttle train are between 6.00 am and midnight, and in exceptional circumstances, the Duralie shuttle train may operate on the North Coast Railway between midnight and 1.00 am in accordance with Condition 8, Schedule 2 of the NSW Project Approval. As required by Condition 8A, Schedule 2 of the NSW Project Approval, within 12 hours of operating shuttle trains on the North Coast railway between midnight and 1am in exceptional circumstances, DCPL will provide a detailed explanation of the exceptional circumstances on the DCPL website.

DCPL will only use the hours necessary to transport ROM coal from the DCM to the SCM.

To minimise rail movements during the night-time (10.00 pm to 7.00 am) DCPL will preferentially use daytime and evening hours to transport ROM coal from the DCM to the SCM. It is noted that under the RING the first hour of approved operations (i.e. between 6.00 am to 7.00 am) is defined as night-time, however, DCPL will preferentially dispatch trains from the DCM during 6.00 am to 7.00 am in order to reduce the required rail movements between the approved hours of 10.00 pm to 1.00 am, as this period (10.00 pm to 1.00 am) of the night-time is considered to be more sensitive from a potential noise impact perspective than 6.00 am to 7.00 am (i.e. the morning).

**Minimisation of Potential Noise from Shuttle Train Braking and Horns**

The Duralie shuttle train operators use brakes and horns as required for safety in accordance with relevant operator protocols. Notwithstanding, the use of brakes and horns has the potential to generate potential noise impacts and will be minimised where practical.

Noise from the bunching and stretching of rail wagons can arise where braking is not co-ordinated between two locomotives on a train. Drivers of the Duralie shuttle train locomotives will reduce the potential noise impacts by coordinating activities via radio to best operate the Duralie Shuttle.

The shuttle locomotive crews operating procedures mandate the standard use of the town horn (as opposed to country horn) where practicable (i.e. the country horn will be used where necessary for safety) to minimise potential noise impacts from the use of horns.

Train Horns are to be sounded briefly under the DSN 60/14 directive issued by Pacific National on the 22nd September 2014, now adopted by the ARTC. The sounding of the horn is part of the crossing safety procedure.
but the “Horn type and duration of use will still be at the driver’s discretion for any perceived risks”. As sounding of the rail horn is an ARTC/pacific national requirement compliance with the noise goal will be assessed on locomotive noise.

**Shuttle Maintenance**

Locomotives on the Duralie shuttle train are inspected weekly, and the wagons have a standard maintenance inspection monthly (including review of braking equipment, wheel condition, door condition, bump stops and general maintenance requirements). In addition, an extensive (two day) maintenance inspection of the wagons is undertaken annually. Any identified maintenance issues from these inspections are either rectified at the time of inspection, or scheduled for timely rectification via a corrective action plan.

**Rail Haulage Audit**

In accordance with Condition 9A, Schedule 5 of the NSW Project Approval, DCPL is required to commission a Rail Haulage Audit by the end of 2013, and with every Independent Environmental Audit thereafter (unless the Secretary directs otherwise), to determine whether all reasonable and feasible measures are being implemented to minimise:

- Noise impacts from the Duralie shuttle train;
- The use of the Duralie shuttle train during approved night-time hours; and
- The dispatch of trains from the DCM between 9.25 pm and 1.00 am the following day.

The 2013 Rail Haulage Audit has been completed and the report along with responses to the recommendations, are available on the Duralie coal website [www.duraliecoal.com.au](http://www.duraliecoal.com.au).

### 6.3 RECEIVER NOISE CONTROL

DCPL will implement reasonable and feasible mitigation measures at noise-affected receivers as listed in Table 2 of Schedule 3 Environmental Performance Conditions of the Duralie Extension Project Approval 08_0203, such as enhanced glazing, insulation and/or air conditioning. The implementation of these measures will be undertaken in accordance with the requirements and criteria specified in Condition 4, Schedule 3 of the NSW Project Approval.

In addition, and in accordance with Condition 1A, Schedule 4 of the NSW Project Approval, DCPL has prepared a Consultation Plan for the implementation of additional noise mitigation measures at the residences listed in Condition 4(c), Schedule 3 of the NSW Project Approval and will implement additional mitigation measures at these residences as required by Condition 4, Schedule 3 of the NSW Project Approval.

The method for validation of potential DCM maximum pass-by rail traffic noise that would trigger notification requirements in accordance with Condition 4(e), Schedule 3 of the NSW Project Approval are described in Section 7.6.
7 NOISE MONITORING PROGRAM

7.1 GENERAL REQUIREMENTS

As per the requirements of the NSW Project Approval, the DCM noise monitoring program will comprise both attended and real-time noise monitoring (Sections 7.2 and 7.3, respectively).

The results of attended monitoring will be used to assess compliance with relevant noise impact assessment criteria (Section 4.1.1). Real-time monitoring will be used as a management tool to assist DCPL to take pre-emptive management actions to avoid potential non-compliances.

Meteorological monitoring will also be conducted (Section 7.4), as well as annual assessments of equipment and plant SWLs (Section 7.5).

The scale of operations at the DCM is expected to reduce during the later years of the project (i.e. 2018-2019) as described in the Duralie Open Pit Modification Noise and Blasting Impact Assessment. This may include ceasing of operations during the evening and night-time periods. Noise monitoring would only be undertaken at times when operations are occurring at the DCM as described in the following sections.

7.2 ATTENDED NOISE MONITORING

7.2.1 PURPOSE

The main aim of attended noise monitoring is to determine compliance with the NSW Project Approval noise criteria (refer to Section 4.1.1).

Results from attended noise monitoring will also be used to verify data collected from real-time noise monitoring.

7.2.2 MONITORING LOCATIONS

The quarterly attended noise monitoring program will be conducted at the following locations (refer to Figure 3 for monitoring locations):

- NM1;
- NM4;
- NM5; and
- NM6.

These monitoring locations have been chosen as they are representative of receivers located in the north, west and south directions from the DCM. Due to topographic shielding to the east associated with Buckley's Range, and that current mine areas are extending to the north-west, no noise monitoring sites are proposed in this direction (consistent with consultation undertaken with the EPA in June 2011).

Attended noise monitoring may also be undertaken at additional locations on a needs basis as determined by DCPL (i.e. following ongoing noise complaints).
7.2.3 METHODOLOGY

The attended noise monitoring will continue to be conducted on a quarterly basis, in accordance with Australian Standard (AS) 1055:1997 *Acoustics – Description and Measurement of Environmental Noise* and the Industrial Noise Policy (INP) (NSW Department of Environment and Climate Change [DECC], 2000).

In accordance with Condition 3 (b), Schedule 5 of the NSW Project Approval, the results of the attended noise monitoring will be compared with the NSW Project Approval noise criteria (refer to Section 4.1.1).

**Timing**

During operational times attended noise monitoring will be conducted for 15 minute periods during the day, evening and night, in accordance with the INP (DECC, 2000). Day is defined as between 7.00 am and 6.00 pm, evening is described as being between 6.00 pm and 10.00 pm and night is between 10.00 pm and 7.00 am.

Noise monitoring would only be undertaken at times when operations are occurring at the DCM. If no operations have occurred during either the day, evening or night in the preceding quarter then attended monitoring would not be undertaken for the corresponding period, i.e. if there have been no evening or night operations then no monitoring would be undertaken at these times.

**Measurement**

Acoustic instrumentation used in attended monitoring will comply with AS 1259.2:1990 *Sound Level Meters* and carry current National Association of Testing Authorities or manufacturer calibration certificates. Instrument calibration will be conducted before and after each survey, with the variation in calibrated levels not to exceed ± 0.5 dBA.

The intrusive noise level (L_{Aeq[15minute]}) contribution from DCM operation activities will be quantified over a 15 minute measurement period. In addition, the overall levels of ambient noise (i.e. L_{Amax}, L_{A1}, L_{Amin}, L_{Aeq} and L_{Ceq}) over the 15 minute period will be quantified and characterised.

In accordance with EPL requirements, noise monitoring will be conducted at the most noise-affected point on or within the residential boundary, or at the most affected point within 30 m of the dwelling, where the dwelling is more than 30 m from the boundary, unless a request by the property owner is made to conduct monitoring at an alternative location on the property which is satisfactory to DCPL and onsite acoustician.

Modifying factors from Section 4 of the INP (DECC, 2000) will be used where applicable. Tonality and low frequency will be assessed by analysis of the measured L_{Aeq} spectrum.

**Recording**

The following information will be recorded for each monitoring survey:

- operator's name;
- locations of attended or unattended noise instruments;
- recording intervals;
- meteorological conditions for each measurement location (as collected by a hand held meter) and also a combination of graphs and tables presenting the weather conditions for the entire survey period;
- statistical noise level descriptors together with notes identifying the principal noise sources;
- project operating conditions including train loading times together with mobile and ancillary equipment operation and predominant location; and
- instrument calibration details.
Reporting

The quarterly monitoring reports will be made publicly available on the DCPL website in accordance with Condition 10 (a), Schedule 5 of the NSW Project Approval. A summary of all monitoring results for each year will be reported in the DCPL Annual Review at the end of that year, in accordance with Condition 3, Schedule 5 of the NSW Project Approval.

7.2.4 COMPLIANCE ASSESSMENT PROTOCOL

As discussed in Section 7.2.1, the results of attended noise monitoring will be compared against the relevant noise criteria (Section 4.1.1). The comparison will be undertaken following the exclusion of data where meteorological conditions (e.g. presence of high wind speeds above 3m/s) or temperature inversion conditions identified to cause noise enhancements in the Duralie Coal Mine area, in accordance with the Section 5 of the INP (DECC, 2000) and DCM site specific Temperature Inversion Condition Limits), as well as observations of non-mine noise by the person undertaking the attended noise monitoring program.

In the event of an exceedance of the noise criteria, an assessment will be conducted to determine:

- The timing of the exceedance.
- The location of the exceedance.
- The exclusion of non-mine related noise and noise from non-DCM mining activities (e.g. can the exceedance be attributed directly to the DCM). This will include consideration of:
  - the methods and type of equipment being used at the DCM at the time of the exceedance and proximity to the locations at which the exceedance was recorded;
  - the location of non-DCM mining activities or agricultural activities and proximity to the locations at which the exceedance was recorded; and
  - the meteorological conditions at the time of the exceedance, including confirmation that meteorological conditions are relevant in accordance with the INP and the noise criteria apply.

If the above assessment determines that an exceedance is due to DCM-related noise during relevant meteorological conditions, then management strategies detailed in Sections 8 and 9 to help prevent recurrence will be implemented in an effort to reduce noise levels below the NSW Project Approval noise criteria.

Exceedances of the noise criteria will be determined in consideration of Section 11.1.3 of the INP (DECC, 2000), which states the following in relation to when a development is in non-compliance with a noise condition:

A development will be deemed to be in non-compliance with a noise consent or licence condition if the monitored noise level is more than 2 dB above the statutory noise limit specified in the consent or licence condition. ....

A development will be in breach of a noise consent or licence condition if sustained non-compliances are not addressed and rectified.

For the purposes of this NMP, the monitored noise level is the attended noise monitoring results at the locations listed in Section 7.2.2.

Any relevant incidences will be reported to the Secretary and any other relevant agencies as soon as practicable after DCPL becomes aware of the incident occurring, in accordance with Condition 6, Schedule 5 of the NSW Project Approval.
7.3 REAL-TIME NOISE MONITORING

7.3.1 PURPOSE
Real-time noise monitoring will be used as a noise management tool, and will not be used to assess compliance with Duralie Coal applicable noise criteria. This will involve the use of noise investigation triggers (i.e. performance indicators) for ongoing performance assessment and will assist in the implementation of pre-emptive management actions to avoid potential non-compliances.

7.3.2 MONITORING LOCATION
The real-time monitoring unit has been installed by a qualified expert and is located to the north of the DCM (Figure 3). This location is on mine-owned property, and as such, DCPL will ensure that the following is managed appropriately:
- occupational health and safety requirements; security of the monitoring equipment; and
- access to the monitoring equipment for installation, maintenance and calibration of the RTNM.

7.3.3 METHODOLOGY
The real-time noise monitoring equipment will have the following capabilities:
- Recording of 15 minute statistical noise data.
- Continuous recording of real-time audio files.
- Recording of meteorological monitoring data (including wind speed, direction, temperature, humidity and rainfall).
- Production of daily reports, including:
  - 15 minute statistical data ($L_{A10}$, $L_{A90}$);
  - $L_{Aeq(15minute)}$ and $L_{Aeq(period)}$ noise levels;
  - $L_{Aeq(15minute)}$ in 1/3 octave;
  - $L_{Aeq(15minute)}$ in the 12.5 to 630 Hertz range; and
  - wind direction, wind speed, temperature, humidity and rainfall.

The real-time monitor will record noise levels during the evening and night-time periods, on days when operations are occurring at the DCM. This time period has been chosen as there are generally too many other extraneous, non-mine generated noise sources outside this time period. If no operations are occurring during either the evening or night-time periods then real-time monitoring would not be undertaken for the corresponding period.

A graphical summary of the previous 24 hours of noise levels will be emailed to mine staff on a daily basis. The continuous recording will also include an audio function which allows the monitor to record audio of the noise signal. This audio information can be downloaded so the listener can determine whether the noise source is mine-related. There are numerous other potential noise sources apart from mine noise, such as wind, traffic, machinery, animals and general non-mining anthropogenic activities, etc which may influence noise monitoring results.

Noise data will be processed to exclude data recorded during meteorological conditions that are not relevant to the noise criteria in accordance with the INP (DECC, 2000) (Section 5). The meteorological station and the temperature lapse rate monitoring instrument (Section 7.4) will be used to determine these conditions, with the meteorological data recorded by the real-time noise monitors used as a back-up.
7.3.4 NOISE INVESTIGATION TRIGGERS

Noise investigation trigger thresholds will be set at 42 dBA between the hours of 7.00 pm and 7.00 am. This time period has been chosen as there are generally too many other extraneous, non-mine generated noise sources outside this time period that would result in regular false triggering of the alarms. Real-time monitoring and triggering of alarms would only be active when operations are occurring at the DCM.

The noise investigation trigger threshold allows for proactive noise management, despite being above the night-time noise criteria for privately-owned residences specified in the NSW Project Approval, which are between 35 dBA and 40 dBA (as detailed in Section 4.1.1 of this NMP). The results of noise modelling show that the night-time noise level would be up to approximately 47 dBA at the real-time noise monitoring location. Therefore, if noise at the monitoring location reaches the trigger threshold of 42 dBA, it is likely that noise at privately-owned receivers to the north of the DCM will not be exceeding the noise criteria.

If noise at the real-time monitoring location exceeds the trigger threshold, an SMS or radio message will be sent to the on-site DCPL Environmental Superintendent (or delegate). The protocol for responding to situations where the triggers are exceeded is described below in Section 7.3.5.

7.3.5 NOISE MONITORING RESPONSE PROTOCOL

The implementation of the real-time noise monitoring protocol will be the responsibility of the DCPL Environmental Superintendent (or delegate).

Response to Noise Investigation Triggers

The protocol for responding to the noise triggers will include:
- An SMS or radio message will be sent to the on-site DCPL Environmental Superintendent (or delegate) notifying them of the Noise trigger level and following a valid level trigger the Open Cut Examiner (OCE) will act immediately implementing the Noise mitigations measures in order of priority as listed below:

1. Shut down evaporative fans
2. Relocate or cease use of trucks
3. Relocate or cease use of hammer drill
4. Restrict dozers in reverse to first gear in exposed areas,
5. Relocate or cease dozer works in exposed or elevated areas,
6. Relocate or cease any at surface or elevated ancillary works e.g. topsoil recovery
7. Relocate truck dumping and associated dozer to an alternate lower dump
8. Relocate most elevated digger and associated fleet to lower alternate dig area
9. Commence shutting production equipment down starting with most elevated fleet
10. Cease operations

- Each additional noise control and management measure that will be implemented to minimise noise emissions will be co-ordinated by Environmental Superintendent (or delegate) in consultation with the Open Cut Examiner, based on the results of initial noise reduction measures.
- Implementation of the noise control and management measures chosen in the management strategy process. The Open Cut Examiner will be responsible for the timely implementation of the selected measures.
- Management strategies for noise investigation triggers will be recorded by DCPL personnel. The records will include details of the investigation, the type of response and the real-time noise monitor’s response (i.e. whether the management strategy results in a discernible reduction of noise as indicated by the real-time monitor).
7.4 METEOROLOGICAL MONITORING AND FORECASTING

Meteorological data will continue to be collected by a weather station at the DCM.

In addition, DCPL has installed appropriate equipment to measure temperature lapse rates in accordance with Condition 24, Schedule 3 of the NSW Project Approval. In accordance with Condition M5.1 of EPL 11701, temperature lapse rates will be continuously measured over a minimum vertical height interval of 50 m. This will be achieved through the installation of two 10 m towers, located in positions with an elevation differential greater than 50 m, as shown on Figure 3. This equipment has been supplied and installed by a suitably qualified supplier.

7.5 SOUND POWER LEVEL MONITORING

Sound power level (SWL) monitoring of mobile plant and equipment will continue to be conducted annually at the DCM, in accordance with Condition 7 (c), Schedule 3 of the NSW Project Approval. All mobile plant will be tested except were certain plant is not available at the time of testing due to breakdown, maintenance or access issues. Sound power level monitoring will be presented as both A-weighted to capture the human perception of noise and linear scale (Z-weighted) to capture noise potentially propagating to long distance receivers.

The results of SWL monitoring will be compared against the SWLs used in the Duralie Open Pit Modification Environmental Assessment (Table 4) to assess the effectiveness of the attenuation measures described in Section 6.2.2 of this NMP.

Where monitoring indicates that the SWL of a piece of plant and/or equipment exceeds the SWLs used in the Duralie Open Pit Modification Environmental Assessment (Table 4), the monitoring result will be verified in conjunction with the attended monitoring and real-time noise monitoring results, and if necessary, the relevant plant and/or equipment will be maintained to rectify the SWL or operational controls adopted. The outcomes of mobile plant testing will be provided in the Annual Review.

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<th>Modification Year 2016-2019 Up to 2.5 Mtpa</th>
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### 7.6 RAIL NOISE MONITORING

Rail noise monitoring would continue to be undertaken quarterly at existing locations TN1 (Craven) and evaluation of DCM shuttle train maximum rail pass-by noise will also be augmented by quarterly rail noise monitoring at 2 locations in the village of Wards River (TN2 - Wards River Village North and TN3 – Wards River Village South). These two monitoring locations will be located at a residential receptor on the west side of Bucketts Way between Receptors R13 and R25 and are representative of maximum rail pass-by noise levels received at residences in close proximity to the railway line at either end of Wards River Village (Figure 3).

Monitoring would be conducted on a quarterly basis and would include attended train passby measurements at each location. Monitoring at these locations would be undertaken against the RING cumulative day and night rail noise trigger levels for rail traffic generating developments as outlined in Section 4.3, however, this will be undertaken for general information purposes only (i.e., these triggers are not DCM compliance requirements).

For the purpose of compliance with the NSW Project Approval, the key requirement is for notification of relevant private receivers adjacent to the rail line, where Project (DCM) maximum rail pass-by noise is above the 85 dBA criteria provided in Condition 4 (e), Schedule 3.

As described in Section 4.3, DCPL will apply the RING criteria of $L_{A_{max}}$ 85 dBA (95th percentile [or 5% exceedance]) with façade correction to determine any relevant maximum rail pass-by noise notification requirements.

As described in the RING, noise from individual trains can vary due to a number of reasons, and it will not be practical to conduct extended periods of rail noise monitoring to establish statistically valid data sets to determine maximum rail pass-by noise 5% exceedance levels every quarter.

Therefore, extended attended maximum rail pass-by noise validation monitoring will only be undertaken in the event of the noise levels are either measured to exceed the $L_{A_{max}}$ 85 dBA criteria during the quarterly noise monitoring program. This validation monitoring would be conducted for an extended period (e.g., minimum 10 days) at a minimum of three representative receivers (TN1, TN2 & TN3 or an additional location) adjacent to the rail corridor to establish a statistically valid dataset to determine current daytime, night-time and 24-hour maximum rail pass-by noise 50% and 5% exceedance levels from the Duralie shuttle train. This dataset would then be used to validate the measured quarterly noise levels which exceeded the pass-by 5% exceedance noise levels at the residential receivers, and would provide a range of measured maximum rail pass-by noise levels.

### Table of Noise Levels

<table>
<thead>
<tr>
<th>Equipment Type</th>
<th>Unit</th>
<th>Level 2</th>
<th>Level 1</th>
<th>Level 0</th>
<th>Level</th>
<th>N/A</th>
</tr>
</thead>
<tbody>
<tr>
<td>Low Noise Grader</td>
<td>1</td>
<td>110</td>
<td>110</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Water Cart</td>
<td>2</td>
<td>121</td>
<td>121</td>
<td>118</td>
<td>128</td>
<td>-</td>
</tr>
<tr>
<td>Evaporators (45Kw)</td>
<td>2</td>
<td>122</td>
<td>122</td>
<td>N/A</td>
<td>N/A</td>
<td>-</td>
</tr>
<tr>
<td>Evaporators (55Kw)</td>
<td>2</td>
<td>122</td>
<td>122</td>
<td>N/A</td>
<td>N/A</td>
<td>-</td>
</tr>
<tr>
<td>Attenuated Evaporators (75Kw)</td>
<td>2</td>
<td>118</td>
<td>118</td>
<td>N/A</td>
<td>N/A</td>
<td>-</td>
</tr>
<tr>
<td>Pumps</td>
<td>6</td>
<td>118</td>
<td>118</td>
<td>N/A</td>
<td>N/A</td>
<td>-</td>
</tr>
<tr>
<td>Rotary Breaker</td>
<td>1</td>
<td>113</td>
<td>113</td>
<td>N/A</td>
<td>N/A</td>
<td>-</td>
</tr>
<tr>
<td>Coal Prep Plant</td>
<td>0</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Rail Loadout Bin</td>
<td>1</td>
<td>110</td>
<td>110</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Locomotive</td>
<td>2</td>
<td>114</td>
<td>114</td>
<td>N/A</td>
<td>N/A</td>
<td>-</td>
</tr>
<tr>
<td>Total SWL</td>
<td>-</td>
<td>133</td>
<td>132</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

Note 1: Un-attenuated Cat789 removed from service in 2017.
Note 2: Removed from service.
Note 3: Dozers limited to 2nd Gear operation.
levels that occur at present, as a benchmark for comparison with the results of subsequent quarterly rail noise monitoring.

Where an exceedance of the $L_{Amax}$ 85 dBA (95th percentile [or 5% exceedance]) criteria is measured during this validation process at private receivers based on the statistically validated rail noise monitoring, DCPL will satisfy the associated notification requirements of Condition 2 (c), Schedule 4 (i.e. notify the relevant owner in writing that they are entitled to ask for additional noise mitigation measures to be installed at their residence).

If applicable, DCPL will subsequently implement associated additional noise mitigation measures as specified in Condition 4, Schedule 3 of the NSW Project Approval.

### 7.7 MONITORING PROGRAM EVALUATION

In accordance with Condition 7(c), Schedule 3 of the NSW Project Approval, DCPL will implement a program to evaluate the effectiveness of the noise management and mitigation measures described in Section 6.2. The effectiveness of the noise management and mitigation measures will be evaluated through a comparison of the monitoring results with the noise criteria and performance indicators described in Section 4.

Section 9 describes DCPL's requirement for the preparation of an Annual Review in accordance with Condition 3, Schedule 5 of the NSW Project Approval. The Annual Review is required to include a comprehensive review of the monitoring data, identification of any exceedances of criteria and identification of trends in the monitoring data.

The program evaluating the effectiveness of noise management and mitigation measures will be conducted as a component of the analysis required to fulfil the reporting requirements of the Annual Review, with the effectiveness of noise management and mitigation measures also reported in the Annual Review.

In addition to the above, DCPL is required, in accordance with Condition 9A, Schedule 5 of the NSW Project Approval, to commission a Rail Haulage Audit by the end of 2013, and with every Independent Environmental Audit thereafter (unless the Secretary directs otherwise) which will review existing rail haulage operations and determine whether all reasonable and feasible measures are being implemented to minimise potential noise impacts from the rail haulage operations. As such, the effectiveness of rail noise management and mitigation measures will also be conducted as a component of the Rail Haulage Audit. The 2013 Rail Haulage Audit has been completed and the report along with responses to the recommendations are available on the Duralie coal website ([www.duraliecoal.com.au](http://www.duraliecoal.com.au)).
8 CONTINGENCY PLAN
In the event that a noise criterion detailed in Section 4 is considered to have been exceeded, as per the Protocol described in Section 7.2.4, DCPL will implement the following Contingency Plan:

- The Environmental Officer will report the exceedance to the General Manager within 24 hours of assessment completion.
- DCPL will report the exceedance of the noise criteria to the EPA and the DP&E as soon as practicable (i.e. within 7 days).
- DCPL will identify an appropriate course of action with respect to the identified impact(s), in consultation with specialists and the EPA, as necessary. For example contingency measures, such as, but not limited to, those described in Section 8.1 of this NMP.
- DCPL will, on request, submit the proposed course of action to the DP&E for approval.
- DCPL will implement the approved course of action to the satisfaction of the DP&E.

8.1 POTENTIAL CONTINGENCY MEASURES
Potential contingency measures will be reviewed during revisions of this NMP. Key potential contingency measures to be implemented (following the exceedance of noise criteria and completion of compliance assessment protocol as described in Section 7.2.4) may include the following:

- DCPL will notify affected landholders and tenants of the exceedance within 2 weeks in accordance with Condition 2, Schedule 4 and provide them with quarterly noise monitoring results, until the results show that the DCM is complying with the noise criteria.
- DCPL will complete a SWL review and remodel the noise emissions for examination of potential additional noise controls, and implement additional reasonable and feasible at source noise controls in addition to those described in Section 6.2 of this NMP and will implement reasonable and feasible at-receiver noise controls in accordance with Condition 4, Schedule 3 of the NSW Project Approval.
- DCPL will acquire affected properties on request in accordance with Conditions 1 and 3, Schedule 3 of the NSW Project Approval.

With respect to rail noise, where a validated exceedance of the 85 dBA (5% exceedance) maximum pass-by rail traffic noise criteria has been identified (Section 4.3) due to the DCM and the notification has been made in accordance with the requirements of Condition 2 (c), Schedule 4. DCPL will, on request, implement reasonable and feasible at-receiver noise controls in accordance with Condition 4, Schedule 3 of the NSW Project Approval.
9 ANNUAL REVIEW AND IMPROVEMENT OF NOISE MANAGEMENT PLAN

9.1 ANNUAL REVIEW

In accordance with Condition 3, Schedule 5 of the NSW Project Approval, DCPL will conduct an Annual Review of the environmental performance of the DCM by the end of December 2011, and annually thereafter. This will be made publicly available on the DCPL website, in accordance with Condition 10, Schedule 5 of the NSW Project Approval.

The Annual Review will specifically address the following aspects of Condition 3, Schedule 5, which are directly relevant to noise management:

- include a comprehensive review of the monitoring results and complaints records for the DCM over the past year, including a comparison of these results against the:
  - relevant statutory requirements, limits or performance measures/criteria;
  - monitoring results of previous years; and
  - relevant predictions in the Environmental Approval;
- identify any exceedance of criteria over the last year, and describe what actions were (or are being) taken to ensure compliance;
- identify any trends in the monitoring data over the life of the DCM;
- identify any discrepancies between the predicted and actual impacts of the DCM, and analyse the potential cause of any significant discrepancies; and
- describe what measures will be implemented over the next year to improve the environmental performance of the DCM.

In addition to the above, and in accordance with Condition 7(c), Schedule 3 of the NSW Project Approval, the Annual Review will also describe the effectiveness of noise mitigation and management measures at the DCM.

9.2 NOISE MANAGEMENT PLAN REVIEW

In accordance with Condition 4, Schedule 5 of the NSW Project Approval, this NMP will be reviewed, and if necessary revised to the satisfaction of the Secretary of the DP&E within three months of:

- the submission of an Annual Review, in accordance with Condition 3, Schedule 5;
- the submission of an incident report, in accordance with Condition 6, Schedule 5;
- the submission of an independent environmental audit, in accordance with Condition 8, Schedule 5;
- any modification to the conditions of the NSW Project Approval (unless the conditions require otherwise); or
- prior to the commencement of clearing in proposed in the Duralie Open Pit Modification Environmental Assessment (DCPL, 2014) (i.e. EA [Mod 2]).

In addition, the NMP will be revised to the satisfaction of the Secretary of the DP&E if necessary, to ensure the plan is updated on a regular basis and to incorporate any recommended measures to improve environmental performance.

This NMP will be made publicly available on the DCPL website, in accordance with Condition 10, Schedule 5 of the NSW Project Approval. A hard copy will also be kept at the DCM.
10 REPORTING SYSTEMS

In accordance with Condition 2 (g), Schedule 5 of the NSW Project Approval, DCPL has developed protocols for managing and reporting the following:

- incidents;
- complaints;
- non-compliances with statutory requirements; and
- exceedances of the impact assessment criteria and/or performance criteria.

10.1 INCIDENT REPORTING

The management and reporting of incidents is described in the Pollution Incident Response Management Plan. DCPL will report any exceedances of its EPL11701 in accordance with Part 5.7 of the POEO Act and relevant conditions of EPL11701. Any other incidents that are considered to cause or have the potential to cause material harm to the environment or be within the range of the defined threshold for material harm will be reported to the relevant authorities in accordance with the PIRMP flowchart (Appendix C of the PIRMP). Any licence exceedances are to be reported immediately to the relevant authority and the other listed agencies where required. Information relating to the pollution incident that is unknown in the first notification instance, and later becomes known, must be given to the relevant authority immediately.

10.2 COMPLAINT REPORTING

The management and reporting of complaints and non-compliances is described in detail in Sections 9 and 10 of the Environmental Management Strategy (EMS) (DCPL, 2015). The Environment & Community Superintendent, in consultation with the DP&E and the complainant, will manage this process (in accordance with process shown on Flow Diagram 1 of the EMS). Preliminary investigations will commence within 24 hours of complaint receipt to determine likely causes of the complaint using all available information (i.e. climatic conditions, nature of mining activities, recent environmental monitoring results). This preliminary investigation will be used to develop specific mitigation measures which will be presented to the complainant for consideration. If the complainant is not satisfied with the proposed measures, the complainant may refer the matter to the Secretary of the DP&E in accordance with Condition 3, Schedule 4 of the NSW Project Approval 08_0203 (Flow Diagram 2 of the EMS outlines the process for an Independent Review).

10.3 NON-COMPLIANCE REPORTING

DCM’s Compliance Assessment Protocol is described in Section 7.2.4 of this NMP. If the Compliance Assessment determines that an exceedance is due to DCM-related noise during relevant meteorological conditions, then management strategies detailed in Sections 8 to help prevent recurrence will be implemented in an effort to reduce noise levels below the NSW Project Approval noise criteria.

Any relevant incidences will be reported to the Secretary and any other relevant agencies as soon as practicable after DCPL becomes aware of the incident occurring, in accordance with Condition 6, Schedule 5 of the NSW Project Approval.

Quarterly noise monitoring reports are available on the Duralie coal website (www.duraliecoal.com.au) following completion of the survey.
11 REFERENCES


Duralie Coal Pty Ltd (2014) *Duralie Open Pit Modification Environmental Assessment*.


APPENDIX A

SUMMARY OF NSW PROJECT APPROVAL CONDITIONS
RELEVANT TO NOISE MANAGEMENT
### Table A-1: Summary of NSW Project Approval Conditions Relevant to Noise Management

<table>
<thead>
<tr>
<th>Schedule</th>
<th>Section</th>
<th>Condition</th>
<th>Description</th>
<th>Section of NMP</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>Noise Criteria</td>
<td>2</td>
<td>Except for the land referred to in Table 1 [Table 1: Land subject to acquisition upon request], the Proponent shall ensure that the noise generated by the project does not exceed the criteria in Table 2 at any residence on privately-owned land or on more than 25 percent of any privately-owned land.</td>
<td></td>
</tr>
</tbody>
</table>

#### Table 2: Noise criteria dB(A)

<table>
<thead>
<tr>
<th>Location</th>
<th>Day</th>
<th>Evening</th>
<th>Night</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>L_{Aeq(15 minute)}</td>
<td>L_{Aeq(15 minute)}</td>
<td>L_{Aeq(15 minute)}</td>
</tr>
<tr>
<td>172 – Lyall</td>
<td>35</td>
<td>39</td>
<td>40</td>
</tr>
<tr>
<td>126 – Hamann Pixalu PL</td>
<td>35</td>
<td>35</td>
<td>39</td>
</tr>
<tr>
<td>123 – Oleksiuk &amp; Carmody</td>
<td>35</td>
<td>36</td>
<td>37</td>
</tr>
<tr>
<td>173 – Trigg &amp; Holland</td>
<td>35</td>
<td>36</td>
<td>37</td>
</tr>
<tr>
<td>116 – Weismantel</td>
<td>35</td>
<td>35</td>
<td>36</td>
</tr>
<tr>
<td>127 – Fisher-Webster</td>
<td>35</td>
<td>35</td>
<td>37</td>
</tr>
<tr>
<td>131 (1) – Retton</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>180 (1) – Thompson</td>
<td>35</td>
<td>36</td>
<td>36</td>
</tr>
<tr>
<td>95 – Smith &amp; Ransley</td>
<td>35</td>
<td>35</td>
<td>36</td>
</tr>
<tr>
<td>144 – Wielgosinski</td>
<td>35</td>
<td>36</td>
<td>35</td>
</tr>
<tr>
<td>169 – Williams</td>
<td>35</td>
<td>36</td>
<td>35</td>
</tr>
<tr>
<td>177 – Thompson</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>All other privately-owned land</td>
<td>35</td>
<td>35</td>
<td>35</td>
</tr>
</tbody>
</table>

**Notes:**
- To identify the locations referred to in Table 2, see the figure in Appendix 3; and
- Noise generated by the project is to be measured in accordance with the relevant procedures and exemptions (including certain meteorological conditions) of the NSW Industrial Noise Policy.

However, these criteria do not apply if the Proponent has a written agreement with the relevant landowner to exceed the criteria, and the Proponent has advised the Department in writing of the terms of this agreement.
## Table A-1 (continued) Summary of NSW Project Approval Conditions Relevant to Noise Management

<table>
<thead>
<tr>
<th>Schedule</th>
<th>Section</th>
<th>Condition</th>
<th>Description</th>
<th>Section of NMP</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>Noise Acquisition Criteria</td>
<td>3</td>
<td>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 percent of any privately-owned land, then upon receiving a written request for acquisition from the landowner, the Proponent shall acquire the land in accordance with the procedures in Conditions 5 - 6 of Schedule 4.</td>
<td>4.1.1</td>
</tr>
</tbody>
</table>

### Table 3: Noise Acquisition Criteria dB(A) $L_{Aeq(15\text{ min})}$

<table>
<thead>
<tr>
<th>Location</th>
<th>Day</th>
<th>Evening</th>
<th>Night</th>
</tr>
</thead>
<tbody>
<tr>
<td>All privately-owned land</td>
<td>40</td>
<td>40</td>
<td>40</td>
</tr>
</tbody>
</table>

Notes:
- Noise generated by the project is to be measured in accordance with the relevant procedures and exemptions (including certain meteorological conditions) of the NSW Industrial Noise Policy; and
- For this condition to apply, the exceedences of the criteria must be systemic.

| Additional Noise Mitigation Measures | 4   | Upon receiving a written request from the owner of any residence: (a) on the land listed in Table 1 [Table 1: Land subject to acquisition upon request]; (b) on the land listed as 123, 126, and 175 on the figure in Appendix 3; (c) on the land listed as R2, R4-12 on the figure in Appendix 3; (d) on privately-owned land where subsequent noise monitoring shows that the noise generated by the project is greater than or equal to $L_{Aeq(15\text{ minute})}$ 38 dB(A); or (e) on privately owned land between the Stratford and Duralie mines where the maximum passby rail traffic noise from the Project exceeds 85dBA, the Proponent shall implement additional noise mitigation measures (such as double glazing, insulation, and/or air conditioning) at the residence in consultation with the owner. These measures must be reasonable and feasible. If within 3 months of receiving this request from the owner, the Proponent and the owner cannot agree on the measures to be implemented, or there is a dispute about the implementation of these measures, then either party may refer the matter to the Secretary for resolution. | 4.1.2 and 6.3 |

| Rail Noise | 5   | By the end of December 2011, or as otherwise agreed by the Secretary, the Proponent shall only receive or dispatch locomotives on/off site that are approved to operate on the NSW rail network in accordance with the noise limits in ARTC’s EPL (No. 3142). | 6.2 |

| Operating Conditions | 6   | The Proponent shall: (a) implement best practice noise management, including all reasonable and feasible noise mitigation measures to minimise the operational, low frequency and rail noise generated by the project; and (b) regularly assess the real-time noise monitoring and meteorological forecasting data and relocate, modify, and/or stop operations on site to ensure compliance with the relevant conditions of this approval, to the satisfaction of the Secretary. | 6 |

7
### Table A-1 (continued) Summary of NSW Project Approval Conditions Relevant to Noise Management

| Schedule | Section | Condition | Description                                                                                                                                                                                                 | Section of NMP |
|----------|---------|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|---|
| 3        | Noise Management Plan | 7         | The Proponent shall prepare and implement a Noise Management Plan for the project to the satisfaction of the Secretary. This plan must:                                                                      | N/A            |
|          |         |           | (a) be prepared in consultation with EPA, and submitted to the Secretary for approval within 3 months of the date of this approval, unless otherwise agreed by the Secretary;                                    |                |
|          |         |           | (b) describe the noise mitigation measures that would be implemented to ensure compliance with conditions 2-6 of Schedule 3 of this approval, including:                                                                 |                |
|          |         |           | – a real-time noise management system that employs both reactive and proactive mitigation measures;                                                                                                           | 6  |
|          |         |           | – a detailed program for the replacement or attenuation of existing plant on site; and                                                                                                                        | 7.3           |
|          |         |           | – the specific measures that would be implemented to minimise the rail noise impacts of the project, and in particular:                                                                                         | 6.2.2          |
|          |         |           | – the braking and train horn impacts of the project;                                                                                                                                                         | 6.2.3          |
|          |         |           | – the use of the shuttle train during the approved night-time hours; and                                                                                                                                    |                |
|          |         |           | – the construction of earth bund walls around evaporative fan units located on the waste rock emplacement area; and                                                                                          | 6.2.2          |
|          |         |           | (c) include a noise monitoring program that:                                                                                                                                                               | 7.2, 7.3       |
|          |         |           | – uses a combination of real-time and supplementary attended monitoring measures to evaluate the performance of the project;                                                                                   |                |
|          |         |           | – includes a program to evaluate the effectiveness of the noise mitigation measures referred to in 7(b) above;                                                                                               | 7.7           |
|          |         |           | – includes a protocol for determining exceedences of the relevant conditions of this approval; and                                                                                                           | 7.2.4          |
|          |         |           | – includes a program to monitor the actual sound power levels of the plant on site, compare it with the benchmark levels used in the EA, and evaluate the effectiveness of any attenuation.                           | 7.5           |
|          |         |           | Note: The effectiveness of the Noise Management Plan is to be reviewed and audited in accordance with the requirements in Schedule 5. Following this review and audit, the plan is to be revised to ensure it remains up to date (see Condition 4 of Schedule 5). | 9.2           |
| 24       | Meteorological Monitoring | 24        | During the life of the development, the Proponent shall ensure that there is a suitable meteorological station operating in the vicinity that:                                                                | 7.4           |
|          |         |           | (a) complies with the requirements in Approved Methods for Sampling of Air Pollutants in New South Wales guideline; and                                                                                       |                |
|          |         |           | (b) is capable of continuous real-time measurement of temperature lapse rate in accordance with the NSW Industrial Noise Policy.                                                                            |                |
### Table A-1 (continued) Summary of NSW Project Approval Conditions Relevant to Noise Management

<table>
<thead>
<tr>
<th>Schedule</th>
<th>Section</th>
<th>Condition</th>
<th>Description</th>
<th>Section of NMP</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>1</td>
<td>Within 1 month of the date of this approval, the Proponent shall notify in writing the owners of:</td>
<td>8.1</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>a) the land listed in Table 1 in Condition 1 of Schedule 3 that they have the right (under Condition 1 of Schedule 3) to require the Proponent to acquire their land at any stage during the project;</td>
<td>4.1.2</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>b) any residence on the land listed in Table 1 in Condition 1 or in Condition 4(b) or (c) of Schedule 3 that they are entitled (under Condition 4 of Schedule 3) to ask for additional noise mitigation measures to be implemented at their residence at any stage during the project;</td>
<td>Not relevant to NMP</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>c) any privately-owned land within 2 kilometres of the approved open cut mining pit on site that they are entitled (under Condition 11 of Schedule 3) to ask for an inspection to establish the baseline condition of any buildings or structures on their land, or to have a previous inspection report updated;</td>
<td>Not relevant to NMP</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>d) any residence on the land listed as 125(1) and 125(2) on the figure in Appendix 3 that they are entitled (under Condition 21 of Schedule 3) to ask for additional dust mitigation measures to be implemented at their residence at any stage during the project; and</td>
<td>Not relevant to NMP</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>e) the owner the land listed as 125(1), 125(2), and 116 on the figure in Appendix 3 or any residence on privately-owned land which has (or would have) significant direct views of the mining operations on site, that they are entitled (under Condition 50 of Schedule 3) to ask for additional visual mitigation measures to be implemented on their land at any stage during the project.</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>1A</td>
<td>Within 1 month of the approval of the first modification to the conditions of this approval, the Proponent shall prepare a Consultation Plan for the implementation of additional noise mitigation measures at the residences listed in Condition 4(c) of Schedule 3. This plan must provide for:</td>
<td>6.3</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>a) notifying the land owners of these residences that they are entitled to ask for additional noise mitigation measures to be implemented at their residence at any stage during the project;</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>b) explaining the sorts of mitigation measures that could be implemented to these residences;</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>c) following up the initial notification of these owners with detailed discussions about the potential implementation of suitable mitigation measures;</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>d) explaining to these land owners that they have the right to refer the matter to the Secretary for resolution if there is a dispute about what measures should be implemented or the implementation of any agreed measures.</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>The Plan is to be made publicly available on the Proponent’s website and the plan shall be implemented to the satisfaction of the Secretary.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
### Table A-1 (continued) Summary of NSW Project Approval Conditions Relevant to Noise Management

<table>
<thead>
<tr>
<th>Schedule</th>
<th>Section</th>
<th>Condition</th>
<th>Description</th>
<th>Section of NMP</th>
</tr>
</thead>
<tbody>
<tr>
<td>4. Additional Procedures (continued)</td>
<td>Notification of Landowners (continued)</td>
<td>2</td>
<td>Within 2 weeks of obtaining monitoring results showing:</td>
<td></td>
</tr>
<tr>
<td></td>
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<td>a) an exceedence of the relevant criteria in any condition in Schedule 3, the Proponent shall notify the affected landowner and tenants in writing of the exceedence, and provide monitoring results to each of these parties until the project is complying with the relevant criteria again;</td>
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<td>b) an exceedence of the relevant noise acquisition criteria in Condition 3 of Schedule 3, the Proponent shall notify the relevant owner in writing that they have the right (under Condition 3 of Schedule 3) to require the proponent to acquire their land;</td>
<td>8.1</td>
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<td>c) an exceedence of the relevant noise mitigation criteria in Condition 4(d) or (e) of Schedule 3, the Proponent shall notify the relevant owner in writing that they are entitled (under Condition 4 of Schedule 3) to ask for additional noise mitigation measures to be installed at their residence;</td>
<td>4.1.1</td>
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<td>d) an exceedence of the relevant air quality criteria in Schedule 3, the Proponent shall send the affected landowners and tenants (including the tenants of any mine-owned land) a copy of the NSW Health fact sheet entitled “Mine Dust and You” (as may be updated from time to time); and an</td>
<td>7.6</td>
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<td>e) exceedence of the relevant air quality criteria in Condition 20 of Schedule 3, the Proponent shall notify the relevant owner in writing that they have the right (under Condition 20 of Schedule 3) to require the Proponent to acquire their land; and</td>
<td>Not relevant to NMP</td>
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<td>f) an exceedence of the relevant dust mitigation criteria in Condition 21 of Schedule 3, the Proponent shall notify the relevant owner in writing that they are entitled (under Condition 21 of Schedule 3) to ask for additional dust mitigation measures to be implemented at their residence.</td>
<td>Not relevant to NMP</td>
</tr>
</tbody>
</table>