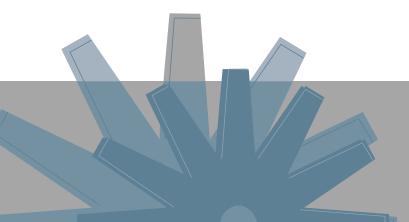


NOISE AND BLASTING MANAGEMENT PLAN

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Noise and Blasting Management Plan

Table of Contents

| 1 | Intro | Introduction | | |
|---|-------|--------------|---|----|
| | 1.1 | Background | | |
| | 1.2 | Pur | pose and Scope | 4 |
| | 1.3 | Obj | ectives | 6 |
| 2 | Pla | nning | g | 6 |
| | 2.1 | Reg | gulatory Requirements | 6 |
| | 2.2 | Max | xwell Project EIS and Supporting Document Commitments | 6 |
| | 2.3 | Pre | paration and Consultation | 6 |
| 3 | Imp | leme | entation | 7 |
| | 3.1 | Cor | ntext | 7 |
| | 3.2 | Noi | se Impacts | 7 |
| | 3.2. | .1 | Operational Noise | 7 |
| | 3.2. | .2 | Low-Frequency Noise | 8 |
| | 3.2. | .3 | Construction Noise | 8 |
| | 3.2. | .4 | Road and Rail Transportation Noise | 9 |
| | 3.2. | .5 | Cumulative Noise | 9 |
| | 3.3 | Noi | se Management System | 10 |
| | 3.3. | .1 | Noise Control Measures | 10 |
| | 3.3. | .2 | Noise-Enhancing Meteorological Conditions | 11 |
| | 3.3. | .3 | Pro-Active Noise Management System | 11 |
| | 3.3. | .4 | Mitigation Upon Request | 12 |
| | 3.4 | Bla | sting Impacts | 13 |
| | 3.5 | Bla | sting Management System | |
| | 3.5. | .1 | Construction Blasting Control Measures | 13 |
| | 3.5. | .2 | Blasting Hours and Frequency | 14 |
| | 3.5. | .3 | Public Roads and Privately Owned Land | 15 |
| | 3.5. | .4 | Public Notification | 15 |
| 4 | Mea | | ement and Evaluation | |
| | 4.1 | Noi | se Criteria | 16 |
| | 4.1. | .1 | Operational Noise Criteria | |
| | 4.1. | .2 | Noise Mitigation and Land Acquisition Criteria | |
| | 4.1. | _ | Cumulative Noise Criteria | |
| | 4.2 | | se Monitoring | |
| | 4.2. | | Attended Noise Monitoring | |
| | 4.2. | | Exceedance Protocol | |
| | 4.2. | .3 | Real-Time Noise Monitoring | 19 |

| | 4.2. | 4 Calibration of Real-Time Noise Monitoring Data | 20 | | |
|---|--|---|----|--|--|
| | 4.3 | Meteorological Monitoring | 21 | | |
| | 4.4 | Blasting Criteria | 21 | | |
| | 4.5 | Blast Monitoring | 21 | | |
| | 4.6 | Cumulative Impacts | 22 | | |
| | 4.7 | Incident and Non-Compliance Notification | 23 | | |
| | 4.8 | Adaptive Management and Contingency Plan | 23 | | |
| | 4.9 | Complaints Handling | 24 | | |
| | 4.10 | Notifying the Community | 25 | | |
| 5 | Aud | lit, Review and Improvement | 25 | | |
| | 5.1 | Review Schedule | 25 | | |
| | 5.2 | Reporting | 25 | | |
| | 5.3 | Records Management | 27 | | |
| | 5.4 | Continuous Improvement | 27 | | |
| | 5.5 | Document Review History | 27 | | |
| 6 | Info | rmation, Training and Instruction | 27 | | |
| | 6.1 | Competent Persons | 27 | | |
| | 6.2 | Training | 27 | | |
| 7 | Res | ponsibilities | 28 | | |
| 8 | Doc | cument Information | 28 | | |
| | 8.1 | References | 28 | | |
| | 8.2 | Definitions and Abbreviations | 29 | | |
| Α | ppendi | x 1 – Regulatory Requirements | 31 | | |
| Α | ppendi | x 2 – Maxwell Project EIS and Supporting Document Commitments | 49 | | |
| Α | Appendix 3 – Planning Secretary Endorsement52 | | | | |
| Α | Appendix 4 – Consultation with the Coolmore and Woodlands Thoroughbred Studs53 | | | | |
| Α | Appendix 5 – Receiver Locations67 | | | | |
| Α | ppendi | x 6 – Regulatory Approval | 69 | | |

1 INTRODUCTION

1.1 Background

Maxwell Ventures (Management) Pty Ltd (Maxwell), a wholly owned subsidiary of Malabar Resources Limited (Malabar) owns and operates the Maxwell Underground Project (the site). The site is located in the Upper Hunter Valley of New South Wales (NSW), east-southeast of Denman and south-southwest of Muswellbrook. The site is approved to extract a maximum of 8 million tonnes of run-of-mine coal per year over a period of 26 years. The site boundary is shown in **Figure 1**.

The site consists of the following areas:

- Underground area comprising the proposed area of underground mining operations and the mine entry area to support underground mining and coal handling activities and provide for personnel and materials access;
- Maxwell Infrastructure (formerly Drayton mine) comprising previous open cut mining areas, existing coal handling and preparation plant, train load-out facilities and rail loop, Antiene rail spur and other infrastructure and services; and
- Transport and services corridor between the underground area and Maxwell Infrastructure comprising the proposed site access road, covered overland conveyor, power supply and other ancillary infrastructure and services.

The area within and surrounding the site, which has previously been known as Mt Arthur South, Saddlers Creek and Drayton South, has long been identified as having a significant in-situ coal resource. Prospecting for coal commenced in the late 1940s, with exploration intensifying during the 1960s and 1970s. Open cut coal extraction and mining activities commenced at Maxwell Infrastructure in 1983 and ceased in October 2016. The previous open cut mining area is currently in the rehabilitation phase of the mine operations.

The development consent for State Significant Development 9526 (SSD 9526) was granted on 22 December 2020 under clause 8A of the *State Environmental Planning Policy (State and Regional Development) 2011* and section 4.5(a) of the *Environmental Planning and Assessment Act 1979* (EP&A Act). The development consent was modified on 19 November 2021 to allow for the repositioning of infrastructure primarily at the MEA and realignment of a section of the site access road.

The site also incorporates the development formerly authorised under the Maxwell Infrastructure Project Approval (PA) 06_0202. Development Consent DA 106-04-00 for the existing rail loop and Antiene Rail Spur was granted on 2 November 2000 under Section 76(A)9 and 80 of the EP&A Act and is still current.

1.2 Purpose and Scope

The purpose of this Noise and Blasting Management Plan (NBMP) is to ensure that statutory requirements are met and to outline the controls to be implemented to manage noise and blasting at the site. This NBMP has been prepared in accordance with Schedule 2, Condition B12 of Development Consent SSD 9526. This NBMP is one of a series of Environmental Management Plans that together form the Environmental Management System for the site.

This NBMP applies to all activities within the SSD 9526 development application area and the Antiene Rail Spur Development Consent DA 106-04-00 boundary.

In accordance with the Maxwell UG Project Environmental Impact Statement (Project EIS), Maxwell may conduct blasting in the final voids at the Maxwell Infrastructure site (rehabilitation blasting). In accordance with the Project EIS, this rehabilitation blasting would be conducted in accordance with a Mining Operations Plan, Mine Closure Plan and/or a Noise and Blast Management Plan. This NBMP would be updated prior to any rehabilitation blasting at which time consultation will be undertaken in accordance with Schedule 2, Condition B12(e)(i) of Development Consent SSD 9526.

Maxwell ComplexDocument Title: Noise and Blasting Management PlanDate of Issue: 7/02/2022Owner: HSECFilename: MXC_MP_EC_04Page 4 of 69

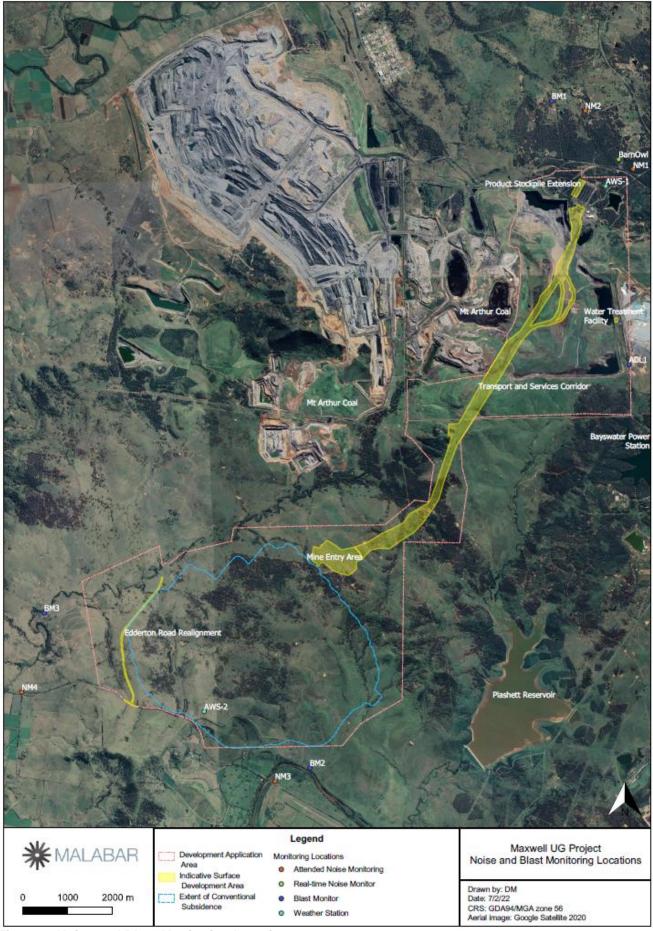


Figure 1. Noise and Blast Monitoring Locations

In accordance with Schedule 2, Condition B13 of Development Consent SSD 9526, Maxwell will not commence construction until this NBMP is approved by the Planning Secretary. Maxwell will notify the Department of Planning, Industry and Environment (DPIE) in writing of the date of commencement of construction at least two weeks before the commencement date in accordance with Schedule 2, Condition A13(b) of Development Consent SSD 9526. In accordance with Schedule 2, Condition B14 of Development Consent SSD 9526, Maxwell will implement this NBMP, following approval by the Planning Secretary.

1.3 Objectives

The objectives of this NBMP are to:

- Detail all relevant statutory requirement;
- Define noise and blasting criteria;
- Identify potential noise and blasting impacts;
- Describe the noise and blasting management system and detail the controls to be implemented;
- Provide detail on how noise impacts are minimised during noise-enhancing meteorological conditions;
- Describe the noise and blasting monitoring program and how exceedances of criteria are established;
- Provide detail on public notification procedures prior to blasting;
- Detail the protocol for distinguishing noise emissions from neighbouring developments;
- Detail the procedure for reporting noise and blasting related exceedances and incidents to relevant stakeholders; and
- Manage complaints related to noise and blasting in a timely and effective manner.

2 PLANNING

2.1 Regulatory Requirements

This NBMP describes the management of noise and blasting to meet relevant statutory requirements within Development Consent SSD 9526, DA 106-04-00, Environment Protection Licence (EPL) 1323, Mining Lease 1531, Coal Lease (CL) 229 and CL395. The various conditions that relate to noise and blasting management and where they are addressed in this document are detailed in **Appendix 1**.

2.2 Maxwell Project EIS and Supporting Document Commitments

A noise impact assessment was undertaken for the Project EIS and included assessment of noise impacts associated with construction activities, operational activities and road and rail transportation. It also included assessment of potential blasting activities. Commitments in the Project EIS and supporting documents that relate to noise and blasting management, and where they are addressed in this document are detailed in **Appendix 2**.

2.3 Preparation and Consultation

Schedule 2, Condition B12(a) of Development Consent SSD 9526, requires that this plan be prepared by a suitably qualified and experienced person/s whose appointment has been endorsed by the Planning Secretary. Maxwell has engaged Neil Gross (Associate Principal at RWDI Australia Pty Ltd) to assist with the preparation of this plan. A copy of the endorsement by the Planning Secretary is included in **Appendix 3**.

In accordance with Schedule 2, Part B, Condition B12(e)(i) of Development Consent SSD 9526, this plan has been prepared in consultation with the Coolmore and Woodlands Thoroughbred Studs. Outcomes of the consultation are presented in **Appendix 4**.

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3 IMPLEMENTATION

3.1 Context

The site is adjacent to two groups of receivers:

- the northern receivers located within the Antiene and East Antiene residential areas near Thomas Mitchell Drive and New England Highway, north and north-east of the Maxwell Infrastructure area; and
- the southern receivers located near the Golden Highway and Hunter River, south and west of the proposed underground mining area.

All 146 identified receivers are shown on figures in **Appendix 5**. Noise modelling was undertaken as part of the noise impact assessment for the daytime, evening and night operating scenarios, based on years 1, 3 and 4 of operations. These years were selected to represent operations with the greatest potential for noise impacts on both the southern and northern receivers. The noise model is compatible with the *Noise Policy for Industry* (NPfI) (EPA 2017). Modelling simulated the site activities using noise source information (i.e. sound power levels and locations) and predicted corresponding potential noise levels at relevant receiver locations. This included consideration of noise enhancing meteorological conditions.

3.2 Noise Impacts

3.2.1 Operational Noise

The NPfl quantifies the significance of any potential noise exceedances. These significance categories are described in **Table 1** and are generally consistent with the significance categories described in the *Voluntary Land Acquisition and Mitigation Policy* (VLAMP) (DPIE 2018). The VLAMP describes mitigation for residual noise impacts from state significant mining developments through the application of voluntary mitigation and acquisition rights.

Table 1. Significance of residual noise impacts

| If the predicted noise level minus the project noise trigger is: | And the total cumulative industrial noise is: | Then the significance of residual noise level is: |
|--|---|---|
| <= 2dBA | Not applicable | Negligible |
| >=3 but <=5 dBA | recommended amenity noise level OR recommended amenity noise level, but the increase in total cumulative industrial noise level resulting from the development is less than or equal to 1dB. | Marginal |
| >=3 but <=5 dBA | > recommended amenity noise level, but the increase in total cumulative industrial noise level resulting from the development is more than 1dB. | Moderate |
| >5 dBA | =< recommended amenity noise level | Moderate |
| >5 dBA | >recommended amenity noise level | Significant |

Noise modelling indicated that noise contributions from the site at all privately-owned southern receivers including the Coolmore and Godolphin Woodlands Studs and Hollydene Estate Wines, were predicted to be indistinguishable from background noise.

Maxwell Complex
Owner: HSEC

Document Title: Noise and Blasting Management Plan Filename: MXC_MP_EC_04

Page 7 of 69

With mitigation measures in place, "marginal" exceedances are predicted at northern receivers 403 and 411 during the daytime and night periods and at northern receivers 402 and 538 during the night period in Years 3 and 4. "Negligible" exceedances are predicted at northern receivers 390, 398, 400, 402, 411, 418, 419, 420, 421, 423, 424, 538 and 539 (refer to figures in **Appendix 5** for location of receivers). No exceedances are predicted at any southern receivers. As described in the VLAMP, "negligible" exceedances are not discernible by the average listener. The noise mitigation measures incorporated into the modelling included the selection of mobile plant and infrastructure items in consideration of good practice sound power levels and implementation of a pro-active noise management system. The pro-active noise management system included the suspension of a small number of mobile plant during noise-enhancing meteorological conditions.

The relatively limited number of receivers with exceedances indicates that, with the implementation of the proposed mitigation measures, operational noise from the site can be managed to the maximum extent possible, and no other measures would be of material benefit.

3.2.2 Low-Frequency Noise

A low-frequency noise assessment was undertaken as part of the noise impact assessment to ascertain whether any receivers should be subject to a modifying factor correction due to dominant low-frequency content, prior to comparing to the relevant site noise trigger levels. The NPfI provides a method for assessing low-frequency noise based on:

- overall 'C' weighted and 'A' weighted predicted or measured levels; and
- one-third octave predicted or measured levels in the range 10–160 Hz.

The C-weighted noise level minus A-weighted noise level assessment was conducted for a selection of receivers considered to be representative of various catchment areas surrounding the site. The assessment was based on the relevant night-time NPfI meteorological conditions resulting in the highest noise levels.

The assessment indicated that it is unlikely that any of the receivers surrounding the site would be subject to dominant low-frequency noise and as such no modifying factor correction for low-frequency noise was warranted for the site. If monitoring results during operations are found to contain dominant low-frequency content, appropriate modifying factors will be applied to measured noise levels in accordance with Fact Sheet C of the NPfI (EPA, 2017).

In accordance with Fact Sheet C of the NPfI (EPA, 2017), following measurement or assessment of source contribution C- and A-weighted $L_{eq,T}$ levels over same time period, the modifying correction is to be applied where the C minus A level is 15 decibels (dB) or more and:

- where any of the one-third octave noise levels in Table C2 of Fact Sheet C are exceeded by up
 to and including 5 dB and cannot be mitigated, a 2-dB(A) positive adjustment to
 measured/predicted A-weighted levels applies for the evening/night period.
- where any of the one-third octave noise levels in Table C2 of Fact Sheet C are exceeded by more than 5 dB and cannot be mitigated, a 5-dB(A) positive adjustment to measured/predicted Aweighted levels applies for the evening/night period and a 2-dB(A) positive adjustment applies for the daytime period.

3.2.3 Construction Noise

Year 1 considers construction works at the MEA (including construction of drifts and ventilation shafts), along the site access road, as well as initial underground mining operations and ongoing rehabilitation of the previously mined areas at the Maxwell Infrastructure. Year 3 considers daytime construction works associated with the upgrade of Maxwell Infrastructure and the new covered overland conveyor, as well as underground mining, ROM coal transport to Maxwell Infrastructure via trucks, and handling and processing of coal.

 Maxwell Complex
 Document Title: Noise and Blasting Management Plan

 Owner: HSEC
 Filename: MXC_MP_EC_04

As perceived by receivers in the vicinity of the site, noise associated with these construction activities in Year 1 and 3, would largely be indistinguishable from operational mining and coal processing activities given similar plant would be deployed and construction activities would occur in areas adjacent to operational activities. For this reason, construction noise during Years 1 and 3 were assessed cumulatively with operational noise, with reference to the criteria for operational noise as per the NPfl.

Construction activities associated with the site access road and covered overland conveyor will move progressively along the transport and services corridor. Investigative modelling has indicated that daytime construction of the site access road in Year 1 would be more than 10 decibels (dB) less than the predicted operational noise to the northern receivers beyond approximately 500 to 1,500 metres (m) from the northern-most end of the transport and services corridor, depending on the meteorological conditions present at the time. In other words, construction noise would typically be masked by the operational noise.

Similarly, daytime works associated with the construction activities along the covered overland conveyor in the Year 3 scenario would become inaudible to the northern receivers beyond approximately 350 to 1,000 m from the northern-most end of the transport and services corridor, depending on the meteorological conditions present at the time. Other construction activities (including initial construction before the site becomes operational) would be distinguishable from operational activities. For completeness, all construction activities, including those that would likely be indistinguishable from operational activities have also been assessed in accordance with the ICNG.

Results of the noise modelling indicated that construction noise levels would generally comply with all the noise management levels recommended in the ICNG. Should these works occur outside of the ICNG's recommended standard hours (i.e. on Sunday or after 1.00 pm on Saturday), construction noise is predicted to exceed the daytime 'Noise Affected' management level by 1 dB at the northern receiver 411. However, the exceedance is unlikely to occur as it assumes construction works associated with the site access road would take place at the northern-most end of the transport and services corridor outside standard hours and during noise-enhancing meteorological conditions. It should be noted that a "marginal" exceedance (3-5dBA) is already predicted at the northern receiver 411 due to operational noise emissions.

3.2.4 Road and Rail Transportation Noise

Noise modelling indicated that the site will comply with relevant criteria in relation to road and rail transportation noise. Noise levels were modelled at the closest affected receiver location for years 6 and 13. Year 6 activity represents peak short-term operational and Year 13 represents longer-term operational activity. Road traffic noise levels resulting from cumulative traffic movements are predicted to comply with the relevant NSW Road Noise Policy (Department of Environment, Climate Change and Water 2011) criteria at all privately-owned receivers on the assessed section of Thomas Mitchell Drive for all years.

An assessment of potential noise impacts from rail traffic was conducted in accordance with the Rail Infrastructure Noise Guideline (RING) (EPA) 2013). As the sites' contribution to total rail traffic on the Main Northern Railway would be less than 5 per cent, an assessment against the RING's network rail line criteria is not warranted. Any site-related noise increase on the Main Northern Railway would be less than 0.5 dB (EPA 2013). The rail traffic noise assessment considered a maximum-case rail movement scenario that included the maximum potential cumulative rail movements for the site and Mt Arthur Coal (MAC). No exceedances of the RING criteria for non-network rail lines were predicted at any privatelyowned receivers due to the cumulative rail movements of the site and MAC when considering local noise-enhancing meteorology.

3.2.5 Cumulative Noise

Cumulative noise impacts resulting from concurrent operations of the site and MAC were assessed against the NPfI recommended amenity criteria. The assessment indicated that cumulative noise levels from the concurrent operations will comply with the recommended night-time amenity criterion at all privately-owned receivers.

Maxwell Complex Document Title: Noise and Blasting Management Plan Owner: HSEC

Filename: MXC_MP_EC_04

Page 9 of 69

3.3 Noise Management System

3.3.1 Noise Control Measures

The noise control measures to be implemented during the life of the mine are summarised in **Table 2**.

Table 2. Operational noise control measures

| Noise Source | Control Measure |
|----------------|---|
| Mobile Plant | Mobile plant and infrastructure items will be selected in consideration of good practice sound power levels, through Maxwell's contract management and procurement processes. |
| | The use of "low noise" attenuated mobile plant in selected areas to minimise noise impacts on the northern receivers. |
| | Periodic testing of sound power levels of mobile mining equipment in accordance with International Standards Organisation (ISO) 6395 Earth-moving machinery – Determination of sound power level – Dynamic test conditions. |
| | Regular maintenance of equipment to avoid deterioration of any noise attenuation components. |
| Infrastructure | The covered overland conveyor between the MEA and Maxwell Infrastructure area will be designed to achieve a best practice sound power level (e.g. use of polyethylene idlers and enclosure/shielding). |
| | All existing conveyors at the CHPP that can be practically enclosed have been enclosed and cladding was added to the northern side of the CHPP (extending from ground level to the top of the conical section of both loading bins) under the preceding PA 06_0202. |
| | Upgrades to infrastructure at the Maxwell Infrastructure area will be limited to 7.00 am to 6.00 pm, Monday to Sunday (inclusive). |
| | Enclosure/acoustic shrouding and acoustic design for ventilation fans. Sound power levels will be periodically tested to confirm fan is being suitably maintained. |
| Rail | Use of locomotives and rolling stock approved to operate on the NSW rail network in accordance with Environment protection Licences (EPLs) issued by the EPA. |
| | During the initial underground mining operations, the trucking of ROM coal, handling and processing of coal, and loading of coal onto trains is not required to occur at night-time so will occur during the daytime only. |
| All areas | Use of real-time monitoring and a forecasting system, incorporating noise and meteorological monitoring, with the purpose of anticipating upcoming periods of noise-enhancing meteorological conditions that may generate noise exceedances (pro-active noise management system). |
| | All employees and contractors will undergo environmental training on noise control and awareness, including noise impact of vehicles accessing the site and appropriate driving behaviour. This training is part of the site wide induction and will take place before the commencement of work by any contractor or sub-contractor, whose work may create intrusive noise as part of their work. Refresher training in noise and blast management will also be undertaken as required and in response to noise and blast complaints, incidents or non-compliances. |
| | Monitoring of emitted noise levels will be undertaken to verify compliance with site noise trigger levels and to assess the need, if any, for additional noise attenuation measures. |
| | Monitoring results will also be assessed against the NPfI with respect to modifying factors (including for low-frequency noise). If noise generated by the site is found to contain annoying characteristics (such as dominant low-frequency content), the appropriate modifying factor would be applied to measured noise levels and assessed against the trigger levels. |

Maxwell Complex
Owner: HSEC

Document Title: Noise and Blasting Management Plan Filename: MXC_MP_EC_04

Page 10 of 69

3.3.2 Noise-Enhancing Meteorological Conditions

Certain meteorological conditions including temperature inversions and wind speed and direction may increase noise levels by focusing sound-wave propagation paths at a specific location for a short duration. Noise-enhancing meteorological conditions were determined based on historic site meteorological data and are provided in **Table 3**.

Table 3. Noise enhancing meteorological conditions

| Receivers | Assessment Period | NPfl Meteorological Condition | Description of Meteorological Parameters |
|-----------|----------------------|---|---|
| Northern | | | 3 m/s wind in ESE, SE, SSE, W, WNW, NW & NNW directions; stability categories A-D |
| | Night-time | Noise-enhancing meteorological conditions | Stability category F; no wind component |
| Southern | Night-time | Noise-enhancing meteorological conditions | Stability category F; no wind component |

Wilkinson Murray (2019) noted that night-time meteorological conditions involving temperature inversions with winds towards either the northern or southern receivers were infrequent. Nevertheless, any noise enhancing conditions including downwind propagation, temperature inversions or a combination of both will be managed using the pro-active noise management system, with modifications to operations to maintain compliance with relevant site operational noise criteria during all stages of the mine life.

With regards to EPL1323 monitoring, for those meteorological conditions not referred to in **Table 3**, the noise limits that apply are the noise limits in condition L3.1 of EPL1323 plus 5 dB. Meteorological data obtained from the meteorological weather station identified as AWS-1 and Stability Category shall be determined by the sigma theta method referred to in Fact Sheet D of the Noise Policy for Industry (NSW EPA, 2017).

3.3.3 Pro-Active Noise Management System

The pro-active noise management system involves the use of meteorological forecasting to assist with managing noise levels during upcoming periods of noise-enhancing meteorological conditions.

Real-time meteorological data will continue to be recorded at the AWS-1 (previously known as CHPP AWS) and AWS-2 and will be used to identify adverse weather conditions. Meteorological forecasts will be reviewed at the start of each shift to identify any upcoming periods of adverse weather conditions (e.g., based on wind speed, direction and atmospheric stability) that may cause elevated noise at receivers to the north (particularly receivers 390, 398, 400, 402, 403, 411, 418, 419, 420, 421, 423, 424, 538 and 539 as shown in **Appendix 5**). If favourable conditions are predicted, then typical operations would be conducted. If noise enhancing meteorological conditions are predicted, then Maxwell will adjust operations based on the management measures detailed in **Table 4**. If adverse weather conditions are predicted then the real-time noise data (as discussed in **Section 4.2.3**) will be closely monitored, and operations modified as required.

Table 4. Management measures for noise-enhancing meteorological conditions

| Applicable Modelling Scenario | | Approximate Noise Reduction at Key Receivers |
|-------------------------------|--|--|
| Year 1 – Daytime | Suspension of all rehabilitation activities. | 1 dB |

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| Applicable Modelling Scenario | Pro-Active/Reactive Mitigation Measures | Approximate Noise Reduction at Key Receivers |
|-------------------------------|--|--|
| Year 3 – Daytime | Suspension of operation of front-end loader at the Maxwell Infrastructure. | 1 dB |
| Year 3 – Night-time | Suspension of operation of front-end loader at the Maxwell Infrastructure. | 1 dB |
| Year 4 – Daytime | Suspension of operation of both dozers at the Maxwell Infrastructure ROM stockpile. | 1 dB |
| Year 4 – Evening | Suspension of operation of both dozers at the Maxwell Infrastructure ROM stockpile. | 1 dB |
| Year 4 – Night-time | Suspension of operation of both dozers at Maxwell Infrastructure ROM stockpile and cease reclaiming from new product stockpile during train loading process. | 2 dB |

3.3.4 Mitigation Upon Request

In accordance with Schedule 2, Condition D1 of Development Consent SSD 9526, upon receiving a written request for mitigation from the owner of any of the four properties predicted to experience "marginal" exceedances of the site noise criteria (i.e. receivers 402, 403, 411 and 538), Maxwell shall implement additional mitigation measures at or in the vicinity of the residence in consultation with the landowner. These measures shall be consistent with the measures outlined in the VLAMP and be reasonable and feasible, proportionate to the level of predicted impact and directed towards reducing the noise impacts of the site. Maxwell shall be responsible for the reasonable costs of ongoing maintenance of these additional mitigation measures until the cessation of mining operations.

In accordance with Schedule 2, Condition D2 of Development Consent SSD 9526, if within 3 months of receiving a request for mitigation from the owner, Maxwell 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 Planning Secretary for resolution.

In accordance with Schedule 2, Condition D3(a)(i) and (b) of Development Consent SSD 9526 within one month of the date of Development Consent SSD 9526, Maxwell notified in writing the owner of the residences on the land at receivers 402, 403, 411 and 538, that they are entitled to ask Maxwell to install additional mitigation measures at the residence.

In reference to Schedule 2, Condition D3(a)(ii) of Development Consent SSD 9526, Maxwell notes that there is no privately-owned land within 3 kilometres of the underground portal at the MEA. Schedule 2, Condition D3(c) of Development Consent SSD 9526 is addressed in the Air Quality and Greenhouse Gas Management Plan as this condition is relevant to dust emissions.

In accordance with DA 106-04-00 Section 5.3.1(e), in the event that a landowner or occupier considers that noise from the site at their dwelling is in excess of the noise limits in DA 106-04-00 (refer to **Table 6**, **Table 8**, and **Table 9** in **Section 4**). Maxwell shall upon the receipt of a written request, consult with the landowner or occupants affected to determine their concerns. If exceedances are demonstrated to result from the coal transportation activity Maxwell shall modify the coal transportation activity in accordance with a "noise reduction plan". This shall include:

- introduction of additional noise controls on site (rail noise measures are discussed in Section 3.3.1); or
- undertaking of noise control at the dwelling to achieve acceptable internal noise levels, with the agreement of the landowner; or
- entering into an agreement with MAC and the landowner or provide such other forms of benefit or amelioration as may be agreed between the parties, as providing acceptable amelioration/benefit for the noise levels experienced.

3.4 Blasting Impacts

As an underground mining operation, surface blasting would not occur as part of operational activities. Section 3.4.2 of the Project EIS notes that blasting of material will be required during construction activities; including but not limited to the development of the coal surge stockpile area, construction of the site access road and construction of water storage dams (i.e. surface construction) and/or to gain access to the underground workings (i.e. construction of the drift and first workings). The requirement for surface construction blasting would be dictated by the geotechnical properties of the material being excavated.

Blasting below surface level will be required to develop access to the underground workings and would generate ground vibration of less than 0.5 millimetres per second (mm/s) at any residence on privately-owned land, including the nearest boundaries of the Coolmore and Godolphin properties.

Potential overpressure and ground vibration impacts associated with blasting for construction were assessed as part of the Project EIS noise assessment. Blasting criteria in Development Consent SSD 9526 are discussed in **Section 4.4**.

The assessment found that the distance to achieve compliance with the 5 per cent exceedance blasting and vibration criteria in Development Consent SSD 9526 was 1.5 kilometres (km). The minimum separation distance between construction-related blasting (should it occur) and nearby sensitive receivers will be:

- approximately 4.5 km from the (closest) boundary fence of the Coolmore Stud;
- approximately 5 km from the (closest) boundary fence of the Godolphin Woodlands Stud; and
- approximately 3 km from Edderton Road.

Overpressure and ground vibration levels associated with construction blasting activities at the site are predicted to comply with the blasting criteria in Development Consent SSD 9526 at all privately-owned receivers.

No construction-related blasting is proposed within 500 metres of a public road. At its nearest point, the mine entry area is located approximately 3 km from Edderton Road. Ground vibration levels associated with construction blasting activities at the site are predicted to comply with the blasting criteria in Development Consent SSD 9526 for electricity transmission lines and public roads.

3.5 Blasting Management System

The construction blasting controls described in the following sections do not apply to single blast events that generate ground vibration of 0.5 mm/s or less at any residence on privately-owned land, or to blast misfires or blasts required to ensure the safety of the mine, its workers or the general public.

3.5.1 Construction Blasting Control Measures

Maxwell will seek to eliminate or minimise the need for construction blasting, with material preferentially removed with dozers and excavators. The requirement for blasting will be dictated by the geotechnical properties of the material being excavated.

Airblast overpressure and ground vibration levels associated with blasting are a function of the distance from the blast and the maximum instantaneous charge (MIC) of explosive used in the blast. Predictive curves for overpressure and ground vibration levels have been derived from measurements conducted at numerous sites, at distances varying between 2 and 7 km from a blast. Data has been used from over 7,600 records of blasts undertaken in the Hunter Valley to derive the relationships between scaled distance and overpressure or vibration (source:

https://majorprojects.planningportal.nsw.gov.au/prweb/PRRestService/mp/01/getContent?AttachRef=SS D-9526%2120201102T000504.836%20GMT).

The majority of the mine entry area and transport and services corridor, where surface construction blasting may occur, are further from the boundary fences of the Coolmore and Woodlands horse studs than the existing extent of the Hunter Valley Operations North open cut pit. Further, the MIC of blasts

Maxwell ComplexDocument Title: Noise and Blasting Management PlanDate of Issue: 7/02/2022Owner: HSECFilename: MXC_MP_EC_04Page 13 of 69

that may be required for construction is significantly less than the approved MIC used for operational blasting at the Mt Arthur Coal and Hunter Valley Operations North open cut pits. Accordingly, the predicted maximum overpressure and vibration associated with potential construction blasting at the Maxwell UG Project are less than the overpressure and vibration that Maxwell understands would have occurred as a result of open cut mining activities at the Mt Arthur Coal and Hunter Valley Operations North open cut pits.

The following controls will be implemented where blasting is required:

- Any blasts required for construction activities will be limited to a MIC of no greater than 500 kg.
 This is substantially smaller than blasting in an open cut mining operation which would have a MIC of up to 2,000 kg to 4,000 kg.
- A suitably qualified person will be engaged to manage any blasting operations.
- All personnel involved in planning or undertaking blasting will be appropriately trained and qualified.
- The parameters required for any blasting activities will be designed with a high margin of conservatism to meet the applicable criteria at the nearest privately-owned receivers or any proximal infrastructure.
- Each blast will be designed to maximise the blast efficiency while minimising dust impacts, fume generation (including emissions from the premises), ground vibration, air blast overpressure and the potential for flyrock. This will be achieved through the implementation of the following controls:
 - Adequate height, quantity and type of stemming will be utilised in the blasting process to maximise confinement of explosives and minimise flyrock generation and airblast overpressure.
 - Geology that may affect the blast i.e. reactive ground, faults and any other geological considerations, will be considered during the planning process to minimise fume generation.
 - The type, quality and quantity of blast products (wet/dry products) will be selected based on the ground and weather conditions for each blast to minimise fume generation.
 - o Blast initiation (i.e. timing) will be designed to minimise dust and fume emissions.
 - Actual and predicted weather conditions will be reviewed prior to each blast to minimise impacts due to dust and fume emissions.
 - Prior to blasting, the area immediately around the blast (i.e. exclusion zone) will be cleared of equipment and personnel. If applicable, livestock will also be removed from the exclusion zone.
 - o Public notifications will be undertaken in accordance with **Section 3.5.4**.

3.5.2 Blasting Hours and Frequency

In accordance with Schedule 2, Condition B7 of Development Consent SSD 9526, Maxwell will only carry out blasting on the site between 9 am and 5 pm (Monday to Saturday inclusive). No blasting is allowed on Sundays, public holidays or any other time without the prior written approval of the Planning Secretary.

If Maxwell requests approval for blasting on Sundays, public holidays or any other time outside the hours of 9 am and 5 pm (Monday to Saturday inclusive) in accordance with Schedule 2, Condition B7 of Development Consent SSD 9526, Maxwell will notify the following:

- Any private landholder or occupier of any residence within 2 kilometres of the site who registers an interest in being notified about blasting activities;
- Coolmore and Godolphin Thoroughbred Studs; and
- the CCC.

Public notification of blasts is discussed further in **Section 3.5.4**.

In accordance with Schedule 2, Part B, Condition B8 of Development Consent SSD 9526, Maxwell will carry out a maximum of:

2 single blast events^a a day; and

Maxwell Complex
Owner: HSEC

8 single blast events^a a week, averaged over a calendar year.

Note: ^a A "single blast event" means a blast which involves either a single detonation or a number of individual blasts fired in quick succession in a discrete area of the development. Should an additional blast be required after a blast misfire, this additional blast and the blast misfire are counted as a single blast event.

3.5.3 Public Roads and Privately Owned Land

In accordance with Schedule 2, Condition B11 of Development Consent SSD 9526, Maxwell will not undertake blasting on the site within 500 metres of any public road or any land outside the site not owned by the Applicant, unless the blast generates ground vibration of 0.5 mm/s or less, or Maxwell has:

- a) a written agreement with the relevant infrastructure owner or landowner to allow blasting to be carried out closer to the public road or land, and the Applicant has advised the Department in writing of the terms of this agreement; or
- b) demonstrated, to the satisfaction of the Planning Secretary, that the blasting can be carried out closer to the public road or land without compromising the safety of people or livestock or damaging the road or other buildings and structures, and updated the Noise and Blast Management Plan required under condition B12 (e) Schedule 2 of Development Consent SSD 9526 to include specific mitigation measures to be implemented while blasting is being carried out within 500 m of the road or land.

At the time of writing this Plan, there are no written agreements in place with the relevant infrastructure owner or landowner to allow blasting to be carried out closer than 500m to a public road or land. If an agreement is put in place, Maxwell will advise DPIE in writing of the terms of the agreement. Until such time, blast designs will be modified to generate a ground vibration of 0.5 mm/s or less.

3.5.4 Public Notification

Any private landholder or occupier of any residence, who registers an interest in being notified about blasting activities at the site, as well as Coolmore and Woodlands Thoroughbred Studs, will be notified of upcoming blast events via telephone, e-mail or as otherwise agreed between the parties.

An early notification will be provided approximately two days before a proposed blast and another notification will be provided on the day of the proposed blast. Maxwell will undertake its best endeavours to blast at the scheduled time however notes that blasting time may vary depending upon weather conditions. Proposed blast times will also be uploaded onto the Muswellbrook Shire Council Blasting Announcements webpage (https://muswellbrook.nsw.gov.au/index.php/blasting/blasting-announcements) to enable interested members of the public to get up-to-date information.

Maxwell maintains a 24-hour community hotline (1800 653 960) where external stakeholders can obtain information on blasting activities. The community hotline number is advertised in the local newspapers and available on the Malabar website. Information on the planned blast(s) will also be discussed at Community Consultative Committee (CCC) meetings and displayed on the Malabar website at https://malabarresources.com.au.

4 MEASUREMENT AND EVALUATION

In accordance with Schedule 2, Condition C2 of Development Consent SSD 9526, measurement and monitoring of compliance with noise and blasting performance measures and performance indicators in this plan are to be undertaken using generally accepted methods that are appropriate to the environment and circumstances in which the site is located. These methods are described in this section. In the event of a dispute over the appropriateness of proposed methods, the Planning Secretary will be the final arbiter.

Maxwell ComplexDocument Title: Noise and Blasting Management PlanDate of Issue: 7/02/2022Owner: HSECFilename: MXC_MP_EC_04Page 15 of 69

4.1 Noise Criteria

4.1.1 Operational Noise Criteria

In accordance with Schedule 2, Condition B1 of Development Consent SSD 9526, Maxwell shall ensure that the noise generated by the site does not exceed the criteria listed in **Table 5** at any residence on privately-owned land. In accordance with Schedule 2, Condition B3 of Development Consent SSD 9526, the criteria do not apply if Maxwell has an agreement with the owner/s of the relevant residence or land to exceed the criteria and has advised the DPIE in writing of the terms of the agreement.

At the time of writing this Plan, there are no agreements in place with the owner/s of the relevant residence or land to exceed the noise criteria in **Table 5**. If an agreement is put in place, Maxwell will advise DPIE in writing of the terms of the agreement.

Table 5. Operational noise criteria

| Receiver Id | Day Leq(15 min) dB(A) (Years 1 to 3) | Day Leq(15 min) dB(A) (Year 4 onwards) | Evening Leq(15 min) dB(A) | Night Leq(15 min) dB(A) | Night Lmax dB(A) |
|--------------------------------------|--|--|---------------------------------|-------------------------------|---------------------|
| 390, 398, 402 ^a | 44 | 42 | 39 | 39 | 52 |
| 425, 427 | 40 | 40 | 37 | 37 | 52 |
| 399 | 42 | 40 | 37 | 37 | 52 |
| 400 | 41 | 40 | 36 | 36 | 52 |
| 403 ^a | 44 | 43 | 40 | 40 | 52 |
| 411 ^a | 45 | 43 | 41 | 41 | 52 |
| 418 | 44 | 42 | 39 | 39 | 52 |
| 419, 420, 539 | 42 | 40 | 38 | 38 | 52 |
| 421, 424 | 41 | 40 | 38 | 38 | 52 |
| 423 | 42 | 40 | 39 | 39 | 52 |
| 538 ^a | 42 | 41 | 38 | 38 | 52 |
| All other privately-owned properties | 40 | 40 | 35 | 35 | 52 |

Note: ^a Identified receivers are eligible for noise mitigation under Schedule 2, Part D, Condition D1 of SSD 9526.

Daytime: the period from 7.00 am to 6.00 pm. Evening: the period from 6.00 pm to 10.00 pm. Night: the period from 10.00 pm to 7.00 am.

Maxwell shall ensure that the noise levels from the Maxwell Infrastructure rail loop and Antiene rail spur do not exceed the dB(A) Leq(15 minute) noise limits also shown in **Table 6**.

Table 6. Rail loop and Antiene Rail Spur development consent operational noise criteria

| Night Time | Evening Time | Day Time |
|-------------------------|-------------------------|-------------------------|
| (10pm – 7am) | (6pm – 10pm) | (7am – 6pm) |
| 38 Leq(15 minute) dB(A) | 38 Leq(15 minute) dB(A) | 38 Leq(15 minute) dB(A) |

4.1.2 Noise Mitigation and Land Acquisition Criteria

In accordance with the VLAMP, mitigation rights are afforded to properties with predicted exceedances that are characterised as "marginal", "moderate" or "significant" and acquisition rights are afforded to properties with predicted exceedances that are characterised as "significant".

Maxwell Complex
Owner: HSEC

As discussed in **Section 3.2.1**, four "marginal" exceedances and ten "negligible" exceedances are predicted at northern receivers. No exceedances are predicted at southern receivers. The options for privately-owned residences for addressing noise levels where they may exceed the site noise criteria are presented in **Table 7**. There are no receivers in the Noise Affectation Zone.

Table 7. Noise impact assessment methodology

| Noise Management Zone | | Noise Affectation Zone |
|---|---|---|
| Negligible Residual Impact 1-2 dB above site noise criteria | Marginal Residual Impact 3-5 dB above site noise criteria | Significant Residual Impact > 5 dB above site noise criteria |
| No treatment/controls required. | Voluntary mitigation rights applicable. | Voluntary mitigation rights applicable. |
| | Architectural treatment required if requested (including ventilation and upgraded facade elements). | Architectural treatment required if requested (including ventilation and upgraded façade elements). |
| | | Voluntary land acquisition rights applicable. |

The area of noise affectation for the cumulative operation of the Maxwell Infrastructure rail loop, Antiene rail spur, Maxwell Infrastructure, MAC rail loading facility and rail loop and MAC mine is defined by demonstrated exceedance of noise levels at any non-mine owned dwellings of the dB(A) Leq(9 hour/4 hour/11 hour) noise limits shown in **Table 8** below. The area of noise affectation for the Maxwell Infrastructure rail loop and Antiene spur is defined by demonstrated exceedance of noise levels at any non-mine owned dwellings of the dB(A) Leq(15 minute) noise limits also shown in **Table 8** below.

Table 8. Rail loop and Antiene Rail Spur development consent noise affectation criteria

| Night Time (10pm – 7am) | Evening Time (6pm – 10pm) | Day Time (7am – 6pm) |
|-------------------------|---------------------------|-------------------------|
| 45 dB(A)L eq(9hour) | 45 dB(A)L eq(4hour) | 45 dB(A)L eq(11hour) |
| 43 dB(A)L eq(15 minute) | 43 dB(A)L eq(15 minute) | 43 dB(A)L eq(15 minute) |

In accordance with DA 106-04-00 Condition 5.3.1 (f) if the independent noise investigations (described in **Section 4.9**) confirm that noise limits in **Table 8** are being exceeded, Maxwell shall at the written request of the owner, acquire the relevant property. Acquisition shall be in accordance with the procedures set out in Condition 10.2 and 10.3 of DA 106-04-00.

4.1.3 Cumulative Noise Criteria

Maxwell shall cooperate with MAC to limit the cumulative noise contributions from the Maxwell Infrastructure rail loop and Antiene rail spur such that these noise levels, in conjunction with the total cumulative noise contributions from the operations of Maxwell UG Project, MAC rail loading facility and rail loop, MAC mine and the Antiene rail spur, do not exceed the dB(A) Leq (9 hour/4 hour/11 hour) noise limits in **Table 9** at any non-mine owned dwellings.

Table 9. Rail Loop and Antiene Rail Spur development consent cumulative noise criteria

| Night Time | Evening Time | Day Time |
|----------------------|----------------------|-----------------------|
| (10pm – 7am) | (6pm – 10pm) | (7am – 6pm) |
| 40 Leq(9 hour) dB(A) | 40 Leq(4 hour) dB(A) | 40 Leq(11 hour) dB(A) |

Maxwell Complex
Owner: HSEC

4.2 Noise Monitoring

The noise monitoring program includes a combination of attended and real-time monitoring at locations representative of residential receivers. On-site monitoring to ensure mobile plant and fixed plant are operating in line with the assumed Sound Power Levels in the Project EIS will be undertaken as required in response to complaints or exceedances of noise criteria.

4.2.1 Attended Noise Monitoring

To assess compliance with operational noise criteria (in **Table 5**), cumulative criteria (in **Table 9**) and the Project EIS predictions for noise (in **Section 3.2**), Maxwell will undertake attended noise monitoring at the locations listed in **Table 10**.

Table 10. Summary of Attended Noise Monitoring Locations

| Monitoring Location | Coordinates (GDA 94 Zone 56) | EPL1323 Monitoring ID | Comments |
|------------------------|---------------------------------|--------------------------|--|
| NM1 | E306016, N6420858 | Point 16 | Site representative of northern receiver 411. |
| NM2 | E304949, N6422155 | Point 17 | Site representative of northern receiver 403. |
| NM3 | E298037, N6407215 | Point 18 | Site representative of southern receiver 227f. |
| NM4 | E292393, N6409199 | N/A | Site representative of southern receiver 240d. |

Note: N/A indicates monitoring not required under EPL.

Attended monitoring is carried out in accordance with the relevant requirements set out in the NPfI. During the attended noise monitoring, noise emissions from the mine site will be distinguished from noise emissions from other sources and will be reported as such. Measurement of the noise environment for compliance assessment is conducted by an acoustic consultant at the locations listed in **Table 10** and shown on **Figure 1**. The compliance assessment for the remaining residential sites are determined by the acoustic consultant using the noise model to extrapolate from the measured values.

For the EPL1323 monitoring sites only, the noise measurement equipment must be located at the most affected point at a location where there is no dwelling at the location or at the most affected point within an area described below:

- approximately on the property boundary, where any dwelling is situated 30 m or less from the property boundary closes to the Premises; or
- within 30 m of a dwelling façade, but not closer than 3 m, where any dwelling on the property is situated more than 30 m from the property boundary closest to the Premises; or, where applicable
- within approximately 50 m of the boundary of a National Park or Nature Reserve.

Monitoring results will be assessed against the NPfI with respect to modifying factors (including for low frequency noise). If monitoring results are found to contain dominant low-frequency content, appropriate modifying factors will be applied to measured noise levels, in accordance with the NPfI, to account for additional annoyance at the receiver. Low frequency noise assessment is discussed further in **Section 3.2.2**.

Attended noise monitoring will be performed every month and will be conducted for day, evening and night-time periods to assess the site against the limits set out in the Development Consent SSD 9526 and EPL 1323. The noise monitoring consultant will plan to target noise monitoring to occur on nights where forecast meteorological conditions are expected to be within Development Consent SSD 9526 and EPL requirements for noise monitoring to minimise data exclusions due to adverse weather conditions. The timeframes for actions in the case of an exceedance are discussed in **Section 4.2.2**.

Maxwell Complex
Owner: HSEC

EPL1323 monitoring will occur over three consecutive operating days for a minimum of 1.5 hours during the day, 30 minutes during the evening and 1 hour during the night.

The attended noise monitoring locations will be reviewed and, where necessary, modified over the life of operations according to monitoring results, physical changes in operations or following the acquisition of private property by Maxwell or neighbouring mining operations.

4.2.2 Exceedance Protocol

Attended noise monitoring is used to quantify and describe the acoustic environment around the site. The results of the attended noise monitoring are recorded, analysed and the estimated contribution from the mine is compared with the operational noise criteria defined in Development Consent SSD 9526 to assess compliance. If an attended noise monitoring result is identified as an exceedance of the operational noise criteria, the steps in **Table 11** will be followed.

Table 11. Steps following a performance criteria exceedance

| Step | Task |
|------|---|
| 1 | The acoustic technician will immediately contact the mine and advise the Supervisor that a noise monitoring reading has exceeded the noise criteria and is attributable to the mine operation. Where possible, the acoustic technician is to describe the cause and/or source of the noise to the Supervisor so that the operations can be modified where required. |
| 2 | The Supervisor will modify or cease the relevant operations causing the elevated noise levels as soon as reasonably practicable. The operational changes are to be actioned prior to a second compliance attended noise reading being taken. All actions taken in response to any exceedance shall be recorded by the Supervisor. |
| 3 | Within 75 minutes of the exceedance, a second 15-minute reading is to be taken by the acoustic technician at the same monitoring location. |
| 4 | If the second reading is under the criteria, the consultant will record the result as a pass and move to the next monitoring site. |
| 5 | If the second reading exceeds the criteria, attributable to the mine operation and is taken in valid meteorological conditions, the consultant will record that the site has failed and is deemed as a 'noise affected period' and considered a noise non-compliance at that site and move to the next monitoring site in accordance with the noise monitoring schedule. Note: An additional noise monitoring test is to be scheduled at the site within 1 week. |
| 6 | An environmental incident investigation will be performed to determine the causes for the non-compliance. Incident and non-compliance notification will be undertaken in accordance with Section 4.7 of this NBMP. Maxwell will provide details of the exceedance to any affected landowner, tenant and the CCC in accordance with Schedule 2, Condition D5 of Development Consent SSD 9526. The affected landholder will be provided with a copy of the investigation which will include the results and any follow up actions. |

An investigation into a noise event will be conducted with the use of the existing real time noise monitoring equipment located in the Antiene rural residential area together with the location of mine equipment considering factors such as other noise sources, topography, location and meteorological conditions. In the event the noise source is related to activities at the site, modifications to the sites' equipment or work area will be undertaken.

4.2.3 Real-Time Noise Monitoring

Real-time noise monitoring will be undertaken for operational purposes only. Real-time noise monitoring currently involves the use of an existing BarnOwl directional noise monitoring system. One BarnOwl unit is located in the Antiene rural residential area as shown on **Figure 1** and is considered representative of the noise levels for northern receivers. The system carries out 24-hour directional noise monitoring, and

Maxwell Complex

Owner: HSEC

Document Title: Noise and Blasting Management Plan

Filename: MXC_MP_EC_04

Page 19 of 69

records and maintains audio files. The system continually feeds the noise data back to a central repository on a real-time basis to allow the site to respond to high level noise events or community complaints.

Real-time noise monitoring will be used as an operational tool to manage noise levels to the north of the site. The trigger levels have been established based on the operational noise criteria (**Table 5**) minus one decibel for the nearest privately owned residence (i.e. receiver 411) and will be used as an early warning system such that the equivalent noise level at the closest receivers will be below the permitted maximum operational noise criteria. The trigger levels are provided in **Table 12**.

Table 12. Trigger levels for real-time noise monitoring

| Day Leq (15 min) dB(A) (Years 1 to 3) | Day Leq (15 min) dB(A) (Year 4 onwards) | Evening Leq (15 min) dB(A) | Night Leq (15 min) dB(A) |
|---|---|-------------------------------|-----------------------------|
| 44 | 42 | 40 | 40 |

If real-time noise monitoring results indicate that noise from the site exceeds the trigger levels, Maxwell personnel will be alerted and will investigate the source of the noise. If the noise is determined to be coming from the Maxwell UG Project, Maxwell will modify and/or suspend operations as required to reduce noise emissions. Changes will be made in accordance with the site Noise Trigger Action Response Plan (TARP). The TARP will also include a process for recording and managing any required corrective actions.

4.2.4 Calibration of Real-Time Noise Monitoring Data

The intention over time is to use the BarnOwl in conjunction with weather data to inform the likelihood of exceedances at the residential receivers. Several aspects of the BarnOwl data and the attended data require further processing and analysis to validate the performance of BarnOwl compared with the attended monitoring. The following steps are necessary for the periods attended noise monitoring data is collected:

- The attended noise monitoring data needs to clearly identify overall noise levels and then estimate the contribution from the mine based on audibility and review of 1/3 octave data in the lower frequencies normally dominated by mine noise. Traffic noise from Thomas Mitchel Drive should also be estimated as part of the attended survey.
- The BarnOwl data (default period of five minutes) for the same period of attended noise monitoring requires analysis.
- Thomas Mitchell Drive is between the BarnOwl and the site, therefore, during most five-minute periods there is likely to be some contribution from traffic noise. This noise is included in the directional data relating to the mine and needs to be excluded. This may be achieved by determining the contribution of traffic noise from angles outside the direction of the mine where only traffic noise is likely to be present. This can be used to determine the traffic noise for each five-degree arc which can be subtracted from the directional noise level to provide a mine only level at the BarnOwl.
- From this mine-only level consideration of mine activities at the time, additional distance and
 prevailing meteorological conditions can be used to determine the expected difference between
 the BarnOwl and the attended results.

This process will be implemented each time monthly attended noise monitoring is conducted until the BarnOwl is deemed calibrated under the most relevant weather conditions, and development activities on site are completed. A suitably qualified and experienced person will develop a simple set of rules that will be able to be applied to the BarnOwl data (excluding traffic noise) to better estimate the noise levels at residences. Once a suitably qualified and experienced person has developed the set of rules, Maxwell will implement the above process on an annual basis to ensure the BarnOwl remains calibrated.

Maxwell Complex
Owner: HSEC

4.3 Meteorological Monitoring

Meteorological monitoring is undertaken at AWS-1 and AWS-2 as shown on **Figure 1** and in accordance with SSD 9526 and EPL requirements. The meteorological monitoring provides the site with information to allow for the most appropriate response to changes in weather conditions. The meteorological stations are capable of measuring meteorological conditions in accordance with the NPfI. The following parameters are monitored at the meteorological stations:

- Wind Speed and Direction
- Temperature
- Relative humidity
- Precipitation
- Atmospheric pressure
- Solar radiation
- Sigma theta

In accordance with Schedule 2, Condition B29 of Development Consent SSD 9526, the AWS-1 and AWS-2 comply with the requirements in the Approved Methods for Sampling and Analysis of Air Pollutants in New South Wales (Department of Environment and Conservation 2007) and are capable of measuring meteorological conditions in accordance with the NPfI.

4.4 Blasting Criteria

In accordance with Schedule 2, Condition B5 of Development Consent SSD 9526, Maxwell shall ensure that blasting on the site does not cause exceedances of the criteria listed in **Table 13** at the specified locations. The criteria do not apply if Maxwell has an agreement with the owner/s of the relevant residence or infrastructure to exceed the criteria and has advised the DPIE in writing of the terms of the agreement.

Table 13. Blasting criteria

| Location | Airblast overpressure (dB(Lin Peak)) | Ground vibration PPV (mm/s) | Allowable exceedance | |
|--|--------------------------------------|-----------------------------|---|--|
| | 120 | 10 | 0% | |
| Residence on privately- owned land ^a | 115 | 5 | 5% of the total number of blasts over a calendar year | |
| Electricity Transmission Lines | - | 50 | 0% | |
| Public Roads | - | 100 | 0% | |
| All other infrastructure, including the Liddell Ash Dam Wall | - | 50 | 0% | |

Note: ^a includes any residence at the Coolmore or Woodlands Thoroughbred Studs or the Hollydene Estate.

Separate performance criteria and reporting requirements are detailed in the *ML 1531 Drayton-2* approval for mining in the Notification Area for the Liddell Ash Dam. The *ML 1531 Drayton-2* approval requires that ground vibration peak particle velocities do not exceed 50 mm/s at any point on the Liddell Ash Dam. Maxwell's current consents do not authorise mining in the Notification Area for the Liddell Ash Dam. This plan will be updated prior to any blasting of highwalls within final voids (for mine rehabilitation) within the Notification Area for the Liddell Ash Dam.

4.5 Blast Monitoring

Currently no permanent blast monitors are installed, as blasting ceased on site following the completion of open cut mining activities in October 2016. In the event surface construction blasting is conducted, temporary blast monitors will be set up at to measure and electronically record airblast overpressure and

Maxwell Complex
Owner: HSEC

ground vibration at locations outlined in **Table 14** and shown on **Figure 1**. Construction blasts will be monitored in accordance with *AS 2187.2 – 2006 and ANZEC Guidelines*.

In accordance with Schedule 2, Condition B10(d) of Development Consent SSD 9526, Maxwell will carry out any additional blast monitoring, if required by a written direction issued by the Planning Secretary, to determine whether the development is complying with the relevant conditions of this consent.

Blast monitoring locations BM4 and BM5 will be determined in consultation with Coolmore and Woodlands Studs. Maxwell notes that as the monitoring equipment is temporary in nature, the location may be moved for each blast, to work in with the day-to-day operations at the studs.

Table 14. Summary of temporary blast monitoring locations

| Monitoring Location | Туре | Coordinates (GDA 94 Zone 56) | EPL Monitoring ID | Comments |
|------------------------|------------|---------------------------------|-------------------|---|
| BM1 | Compliance | E304200, N6422371 | Point 13 | Located in north of the site. |
| BM2 | Compliance | E298813, N6407512 | Point 14 | Located south of the site. |
| ВМ3 | Compliance | E292895, N6410964 | Point 15 | Located west of the site. |
| BM4 | Compliance | ТВА | N/A | Location to be discussed with Coolmore Stud. |
| BM5 | Compliance | ТВА | N/A | Location to be discussed with Woodlands Stud. |
| ADL 1 | Compliance | E305923, N6416500 | N/A | Located on the Ash Dam Wall Levee. |

Note: N/A indicates monitoring not required under EPL.

4.6 Cumulative Impacts

In accordance with Schedule 2, Condition B10(c) of Development Consent SSD 9526 Maxwell will make all reasonable and feasible endeavours to coordinate the timing of surface construction blasting activities with any nearby mines (including) MAC to minimise cumulative blasting impacts. This will involve reviewing the blast schedule of surrounding mines and timing surface construction blasts to avoid blasts at surrounding mines where practical. Maxwell will notify surrounding mines of Maxwell's scheduled surface construction blasts at least two days before and on the day of the blast. Notification of upcoming blasts events will be via telephone, e-mail or as otherwise agreed between the parties.

Maxwell's closest mining neighbour is MAC which shares an operational boundary to the west and the Antiene rail spur to the north. Maxwell meets with MAC on a regular basis. A joint CCC meeting with MAC is conducted every six months where noise monitoring results and community complaints specific to the rail spur are presented. In the event any exceedances of the criteria are recorded, the results of the investigation are presented to the CCC at this meeting. Maxwell meets with other nearby mining companies on a regular basis to discuss shared learnings from incidents and any new technology and or trials being undertaken. Maxwell also participates in the Upper Hunter Mining Dialogue which brings together nearby mines and the community to discuss various aspects of environmental management.

Cumulative noise impacts resulting from concurrent operation of the site and MAC were assessed for the project EIS. The methodology used for cumulative assessment involved noise predictions under adverse meteorological conditions from the site and MAC for receivers potentially impacted by both sites (i.e. the northern receivers). This is considered to represent a worst-case assessment of the potential cumulative noise levels for key receivers. The assessment indicated that cumulative noise levels from the concurrent operation of the site and MAC would comply with the recommended night-time amenity criterion at all privately-owned receivers.

Maxwell Complex

Owner: HSFC

Document Title: Noise and Blasting Management Plan

Filename: MXC_MP_EC_04

Maxwell will make all reasonable and feasible endeavours to coordinate noise management with nearby mines to minimise cumulative impacts. Maxwell will use real-time noise monitoring data during the analysis of elevated noise readings to assist to distinguish noise emissions from the neighbouring developments by determining the elevated noise source. Maxwell will also undertake off site inspections (where required) to determine the elevated noise source. In the event, that elevated noise levels are suspected to be coming from nearby mines or a community complaint is received about noise along a shared operational boundary with a nearby mine, Maxwell will notify the other mining company in a timely manner so that they can undertake their own investigation and action accordingly.

4.7 Incident and Non-Compliance Notification

An incident is defined in Development Consent SSD 9526 as an occurrence or set of circumstances that causes or threatens to cause material harm and which may or may not be or cause a non-compliance.

In accordance with Schedule 2, Condition E9 of Development Consent SSD 9526, Maxwell shall notify DPIE and the EPA, immediately after it becomes aware of an incident. The notification shall be in writing via the Department's Major Projects Website and identify the development (including the development application number and name) and set out the location and nature of the incident.

A Pollution and Incident Response Management Plan (PIRMP) is maintained in accordance with the requirements of the Part 5.7A of the Protection of the Environment Operations Act 1997 and Chapter 7, Part 3A of the Protection of the Environment Operations (General) Regulation 2009. Any pollution incident that causes actual or potential material harm will be reported to the relevant agencies immediately after it is identified, as described in the PIRMP. A copy of the PIRMP is located on Malabar's website at https://malabarresources.com.au/sustainability/documentation.

In accordance with Schedule 2, Condition E10 of Development Consent SSD 9526, Maxwell shall notify DPIE within seven days of becoming aware of a non-compliance. The notification shall be in writing via the Department's Major Projects Website_and identify the development (including the development application number and name), set out the condition of Development Consent SSD 9526 that the site is non-compliant with, why it does not comply and the reasons for the non-compliance (if known) and what actions have been, or will be, undertaken to address the non-compliance. A non-compliance which has been notified as an incident does not need to also be notified as a non-compliance.

In accordance with Schedule 2, Condition D5 of Development Consent SSD 9526, as soon as practicable, and no longer than seven days after obtaining monitoring results showing an exceedance of any of the criteria in **Table 5**, Maxwell will provide the detail of the exceedance to affected landowners, tenants and the CCC.

4.8 Adaptive Management and Contingency Plan

In accordance with Schedule 2, Condition E4 of Development Consent SSD 9526, where any exceedance of performance measures has occurred, Maxwell shall, at the earliest opportunity:

- Take all reasonable and feasible steps to ensure that the exceedance ceases and does not recur:
- Consider all reasonable and feasible options for remediation (where relevant) and submit a report to DPIE describing those options and any preferred remediation measures or other course of action; and
- Implement reasonable remediation measures as directed by the Planning Secretary.

In accordance with Schedule 2, Condition E5 (f) of Development Consent SSD 9526, the following contingency plan is used to manage any unpredicted impacts and their consequences, and to ensure that ongoing impacts reduce to levels below relevant impact assessment criteria as quickly as possible:

- Review the unpredicted impact with consideration of any relevant activities and monitoring data;
- Identify the most likely source of the unpredicted impact;
- Review the existing process and current noise controls; and

Maxwell ComplexDocument Title: Noise and Blasting Management PlanDate of Issue: 7/02/2022Owner: HSECFilename: MXC_MP_EC_04Page 23 of 69

Implement appropriate mitigation measures.

The above response to an exceedance is considered reactive management. Pro-active noise management is described in **Section 3.3.3** and involves the use of real-time monitoring and meteorological forecasting to assist with managing noise levels.

4.9 Complaints Handling

The site maintains a 24-hour community hotline (1800 653 960) for any issues or enquiries. In addition to the community hotline, the site can also be contacted by emailing info@malabarresources.com.au.

In accordance with Schedule 2 Condition B12(e)(iv) and Condition E5(h)(ii) of Development Consent SSD 9526, if a complaint or enquiry is received regarding noise or blasting, it is investigated as soon as reasonably practicable and managed in accordance with Maxwell's *Community Complaints and Enquiries Procedure*. Details such as complainant name, contact details, nature of concern, date, time and method of receival are recorded. While details of the enquiry vary depending on the nature and source of the enquiry, the following actions may result:

- Confirmation of whether the complainant would like the matter raised as a complaint or an enquiry.
- Identify further details which may assist in determining the cause of the complaint.
- Carry out an inspection of the site or conduct an assessment of monitoring results to identify the source.
- Identify if there is an exceedance or non-compliance with any consent or licence condition.
- Identify, where necessary and practical, methods to manage the source of the complaint and minimise the chance of a recurrence or the potential to generate further complaints.

All enquiries and/or complaints are recorded in an enquiries database. A summary of complaints is presented to the Community Consultative Committee and included in the Annual Review and EPL Annual Return. In accordance with Schedule 2 Condition E17(a) (x) a complaints register, updated monthly will be publicly available on Malabar's website at https://malabarresources.com.au/sustainability/documentation.

If a landowner considers the development to be exceeding any relevant noise criterion in **Table 5**, they may ask the Planning Secretary in writing for an independent review of the impacts of the development on their residence or land. If the Planning Secretary is not satisfied that an independent review is warranted, the Planning Secretary will notify the landowner in writing of that decision, and the reasons for that decision, within 21 days of the request for a review.

If the Planning Secretary is satisfied that an independent review is warranted, within three months, or other timeframe agreed by the Planning Secretary and the landowner, of the Planning Secretary's decision, Maxwell shall:

- commission a suitably qualified, experienced and independent person, whose appointment has been approved by the Planning Secretary, to;
 - o consult with the landowner to determine their concerns;
 - conduct monitoring to determine whether the development is complying with the relevant criteria in PART B or PART C of Development Consent SSD 9526; and
 - o if the development is not complying with the relevant criterion, identify measures that could be implemented to ensure compliance with the relevant criterion; and
- give the Planning Secretary and landowner a copy of the independent review; and
- comply with any written requests made by the Planning Secretary to implement any findings of the review.

In accordance with DA 106-04-00 Condition 5.3.1 (e), in the event that a landowner or occupier considers that noise from the project at their dwelling is in excess of the noise limits in **Table 6** or **Table 8** or **Table 9**, Maxwell shall upon the receipt of a written request consult with the landowner or occupants affected to determine their concerns. Maxwell shall make arrangements for, and bear the costs of, in consultation with MAC, appropriate independent noise investigations to quantify the impact and

Maxwell ComplexDocument Title: Noise and Blasting Management PlanDate of Issue: 7/02/2022Owner: HSECFilename: MXC_MP_EC_04Page 24 of 69

determine the source of the effect and contribution of the Maxwell Infrastructure rail loop and Antiene rail spur. If exceedances are demonstrated to result from the coal transportation activity Maxwell shall modify the coal transportation activity in accordance with a noise reduction plan.

4.10 Notifying the Community

The objective of stakeholder engagement is to provide transparent, consistent and inclusive stakeholder engagement and access to current and sufficient information about the Maxwell UG Project, its activities, workforce and schedule to support impact management and monitoring. Stakeholder engagement activities include, but are not limited to:

- distributing construction notices to landholders within 2.5 km of project;
- liaison as agreed with landowners;
- conducting community information sessions commencing prior to construction and continuing during at least the first three years of operation to provide updates and address potential issues or concerns; and
- offering to meet regularly with representatives of the Coolmore Stud, Godolphin Woodlands Stud and Hollydene Estate Wines.

General project updates including a description of activities being undertaken on site will be included in the Maxwell external newsletter which will be distributed generally every six months for at least the first three years of operation. In addition to this, Maxwell will establish and operate a Community Consultative Committee (CCC) in accordance with Schedule 2, Condition A20 of Development Consent SSD 9526, consistent with the *Community Consultative Committee Guideline: State Significant Projects (NSW Government, 2019)* or its latest equivalent version.

5 AUDIT, REVIEW AND IMPROVEMENT

5.1 Review Schedule

The suitability of this NBMP will be reviewed in accordance with Schedule 2, Condition E7 of Development Consent SSD 9526, that is within three months of:

- the submission of an incident notification under condition E9;
- the submission of an Annual Review under condition E11;
- the submission of an Independent Environmental Audit under condition E13;
- the approval of any modification of the conditions of Development Consent SSD 9526; or
- notification of a change in development phase under condition A13.

In accordance with Condition E8, if necessary, to improve the environmental performance of the site, cater for a modification or comply with a direction, this plan will be revised. The revised plan will be submitted to DPIE for approval within six weeks of the review.

5.2 Reporting

In accordance with Schedule 2, Condition E11 of Development Consent SSD 9526, by the end of March in each year after the commencement of the development, or other timeframe agreed by the Planning Secretary, an Annual Review report will be submitted to DPIE. The Annual Review will include, but not be limited to, the following:

- A description of the development that was carried out in the previous calendar year and the development proposed to be carried out over the current calendar year.
- A comprehensive review of any noise and blast monitoring results and evaluation undertaken over the past year.
- A comprehensive review of any noise and blast complaint records over the past year, including a
 description of the manner in which complaints were addressed.
- A description of non-compliances which occurred in the previous calendar year and actions that were (or are being) taken to rectify the non-compliance and avoid reoccurrence.
- Identify any trends in any noise and blast monitoring data over the life of the development.

Maxwell Complex

Document Title: Noise and Blasting Management Plan

Owner: HSEC

Filename: MXC_MP_EC_04

- Identify any discrepancies between the predicted and actual noise and blasting impacts of the site and analysis of the potential cause of any significant discrepancies.
- Where applicable, measures that will be implemented over the next reporting year to improve the environmental performance of the development with respect to noise and blasting management.

In accordance with Schedule 2, Condition E12 of Development Consent SSD 9526, copies of the Annual Review shall be submitted to MSC and made available to the CCC and any interested person upon request.

In accordance with Schedule 2, Condition E17(a) of Development Consent SSD 9526, the Annual review will be publicly available on the site's website at https://malabarresources.com.au/sustainability/documentation.

5.3 **Auditing**

In accordance with Schedule 2, Part E, Condition E13 of Development Consent SSD 9526 within one year of commencement of development under this consent, and every three years after, unless the Planning Secretary directs otherwise, Maxwell will commission and pay the full cost of an Independent Environmental Audit of the development. The audit shall:

- (a) be led by a suitably qualified, experienced and independent auditor whose appointment has been endorsed by the Planning Secretary;
- (b) be conducted by a suitably qualified, experienced and independent team of experts (including any expert in field/s specified by the Planning Secretary) whose appointment has been endorsed by the Planning Secretary;
- (c) be carried out in consultation with the relevant agencies and the CCC;
- (d) assess the environmental performance of the development and whether it is complying with the relevant requirements in this consent, water licences and mining leases for the development (including any assessment, strategy, plan or program required under these approvals);
- (e) review the adequacy of any approved strategy, plan or program required under the abovementioned approvals and this consent;
- (f) recommend appropriate measures or actions to improve the environmental performance of the development and any assessment, strategy, plan or program required under the abovementioned approvals and this consent; and
- (g) be conducted and reported to the satisfaction of the Planning Secretary.

In accordance with Schedule 2, Part E, Condition E14 of Development Consent SSD 9526, within three months of commencing an Independent Environmental Audit, or other timeframe agreed by the Planning Secretary, Maxwell shall submit a copy of the audit report to the Planning Secretary, and any other NSW agency that requests it, together with its response to any recommendations contained in the audit report, and a timetable for the implementation of the recommendations. The recommendations shall be implemented to the satisfaction of the Planning Secretary.

5.4 Access to Information

In accordance with Schedule 2, Part E, Condition E17 of Development Consent SSD 9526 before the commencement of construction until the completion of all rehabilitation required under SSD 9526. Maxwell will make the following information and documents (as they are obtained, approved or as otherwise stipulated within the conditions of SSD 9526) that are relevant to this plan publicly available on Malabar's website:

- this NBMP;
- the proposed staging plans for the development if the construction, operation or decommissioning of the development is to be staged;
- minutes of CCC meetings;

Maxwell Complex Owner: HSEC Filename: MXC_MP_EC_04

- regular reporting on the environmental performance of the development in accordance with the reporting requirements in any plans or programs approved under the conditions of this consent;
- a comprehensive summary of the monitoring results of the development, reported in accordance with the specifications in any conditions of this consent, or any approved plans and programs;
- a summary of the current phase and progress of the development;
- contact details to enquire about the development or to make a complaint;
- · a complaints register, updated monthly;
- · the Annual Reviews of the development; and
- audit reports prepared as part of any Independent Environmental Audit of the development and the Applicant's response to the recommendations in any audit report.

This information shall be kept up to date, to the satisfaction of the Planning Secretary

5.5 Records Management

All noise and blasting data will be maintained in accordance with the Environmental Management Strategy and maintained on the premise for a period of at least five years.

5.6 Continuous Improvement

Feedback from the monitoring results and any complaints will be used to assess impacts and determine where improvements or mitigation measures are required. These measures will be reported on in the Annual Review.

5.7 Document Review History

A summary of the document history is outlined in **Table 15**.

Table 15. Document revision status

| Issue | Issue Date | Review Team | Details of Change / Communication |
|-------|---------------|---|--|
| 1 | Jul 2021 | Robyn Skinner Neil Gross John Wassermann Rob Hayes Donna McLaughlin | Document prepared following approval of Development Consent SSD 9526 for the Maxwell UG Project. |
| 1.1 | Aug 2021 | Robyn Skinner Donna McLaughlin | Document updated following review by DPIE. |
| 2 | Feb 2022 | Alex Newton Donna McLaughlin | Document updated following approval of Modification 1. |

6 INFORMATION, TRAINING AND INSTRUCTION

6.1 Competent Persons

Suitably qualified, competent and experienced persons shall be involved in the design, planning and implementation of this plan and related procedures.

6.2 Training

Maxwell Complex

Owner: HSEC

Noise and blast management training is provided to all employees and contractors through the site induction process. The site induction will include awareness of the potential for noise impact of vehicles accessing the site and reinforce appropriate driving behaviour. Refresher training in noise and blast management will also be undertaken as required and in response to noise and blast complaints,

Document Title: Noise and Blasting Management Plan Filename: MXC_MP_EC_04

incidents or non-compliances. From time to time, workforce communication and toolbox talks allow for discussion of the objectives and requirements of this and any other relevant Management Plans.

To ensure the effective implementation of noise and blast management controls relevant personnel will undergo environmental training on noise control and awareness. This training will take place before the commencement of work by any contractor or sub-contractor, whose work may create intrusive noise as part of their work.

7 RESPONSIBILITIES

Responsibilities associated with this management plan are outlined **Table 16**.

Table 16. Responsibilities

| Position | Responsibilities | | | | | |
|------------------------------|--|--|--|--|--|--|
| General Manager | Provide adequate resources for the implementation of this Plan. | | | | | |
| HSEC Manager | Oversee the implementation of this Plan Notify regulatory authorities and affected stakeholders of incidents in accordance with this Plan. Coordinate periodic reviews of this Plan. Ensure all personnel are trained in accordance with this Plan. | | | | | |
| Environmental Coordinator | Assist the HSEC Manager as required in the implementation of this Plan. Coordinate investigations of noise and blast related incidents or complaints. Coordinate the implementation of the noise and blast monitoring program in accordance with this Plan. Coordinate the management of records and reporting of noise and blast data. Manage noise and blast related complaints in accordance with the complaints management procedure. Provide training to all relevant personnel. | | | | | |
| Supervisors | Notify the Environmental Coordinator of any incidents and exceedances involving noise and blasting. Implement noise and blasting management measures as defined in this Plan. | | | | | |
| All Personnel | Awareness of noise and blasting controls as part of site induction Undertake works in accordance with the objectives and principles of this Plan Report any incidents and exceedances involving noise and blasting. | | | | | |

8 DOCUMENT INFORMATION

8.1 References

Australian and New Zealand Environment Council (1990) Technical Basis for Guidelines to Minimise Annoyance due to Blasting Overpressure and Ground Vibration.

Department of Environment and Climate Change (2009) Interim Construction Noise Guideline.

Department of Environment, Climate Change and Water (2011) NSW Road Noise Policy.

Department of Environment and Conservation (2006) Assessing Vibration: a technical guideline.

Department of Environment and Conservation (2007) Approved Methods for Sampling and Analysis of Air Pollutants in New South Wales.

Department of Planning and Environment (2018) Voluntary Land Acquisition and Mitigation Policy.

Environment Protection Authority (2013) Rail Infrastructure Noise Guideline.

Maxwell Complex
Owner: HSEC

Document Title: Noise and Blasting Management Plan Filename: MXC_MP_EC_04

Environment Protection Authority (2017) Noise Policy for Industry.

Wilkinson Murray (2019) Maxwell Project Noise Impact Assessment.

8.2 Definitions and Abbreviations

| Term | Definition |
|--------------------------|---|
| Airblast Overpressure | An airborne shock wave resulting from detonation of explosives. An airblast may be caused by blasted material movement or the release of expanding gas into the air |
| ANZEC | Australian and New Zealand Environment Council |
| AS | Australian Standard |
| ccc | Community Consultative Committee |
| CHPP | Coal Handling Preparation Plant |
| CL | Coal Lease |
| DA | Development Approval |
| Day | Defined as the period from 7am to 6pm Monday to Saturday and 8am to 6pm Sundays and Public Holidays. |
| dBA | Decibel (A-weighted) |
| dBC | Decibel (C-weighted) |
| dBL | Airblast recording of the blast measured in Decibels (linear) |
| DPIE | NSW Department of Planning, Industry and Environment |
| DSC | NSW Dam Safety Committee |
| EPA | NSW Environmental Protection Authority |
| EPL | Environment Protection Licence |
| Evening | Defined as the period of 6pm to 10pm. |
| ICNG | Interim Construction Noise Guideline (Department of Environment and Climate Change 2009) |
| L _{Aeq} | Equivalent A-weighted continuous sound level measured in decibels |
| L _{Amax} | Maximum A-weighted sound level measured in decibels |
| L _{A1} | One percentile A-weighted sound level |
| L _{A10} | Tenth percentile A-weighted sound level |
| L _{A50} | Fiftieth percentile A-weighted sound level |
| L _{A90} | Ninetieth percentile A-weighted sound level |
| MAC | Mt Arthur Coal |
| ML | Mining Lease |

Maxwell Complex
Owner: HSEC

| Term | Definition |
|--------------|---|
| MSC | Muswellbrook Shire Council |
| Night | Defined as the period from 10pm to 7am Monday to Saturday and 10pm to 8am on Sundays and Public Holidays. |
| NBMP | Noise and Blasting Management Plan |
| NPfI | NSW Noise Policy for Industry |
| PA | Project Approval (Development Consent) |
| PPV | Peak particle velocity for blasting measured in mm/s |
| PIRMP | Pollution and Incident Response Management Plan |
| RING | Rail Infrastructure Noise Guideline (EPA 2013) |
| SSD | State Significant Development |
| Toolbox Talk | A forum where information is presented to the crews |
| VLAMP | Voluntary Land Acquisition and Mitigation Policy |

APPENDIX 1 - REGULATORY REQUIREMENTS

State Significant Development Consent 9526

| Clause | Requirement | | | | | | Section of Plan |
|--------|--|---|---|--|-------------------|------------------------|-----------------|
| B1 | The Applicant m | nust ensure that | the noise gener | ated by the dev | elopment does | not | |
| | | | • | - | • | | |
| | exceed the criteria in Table 1 at any residence on privately-owned land ^a . | | | | | | |
| | Table 1: Noise criteria dB(A) | | | | | | 2.2 |
| | Receiver Id | Day | Day Leq _(15 min) dB(A) | Evening Leq _(15 min) dB(A) | Nigh | | 3.3 |
| | | Leq _(15 min) dB(A) (Years 1 to 3) | (Year 4 onwards) | Leg(15 mm) ab(A) | Leq(15 min) dB(A) | L _{Max} dB(A) | |
| | 390, 398, 402b | 44 | 42 | 39 | 39 | 52 | |
| | 425, 427 | 40 | 40 | 37 | 37 | 52 | |
| | 399 | 42 | 40 | 37 | 37 | 52 | |
| | 400 | 41 | 40 | 36 | 36 | 52 | |
| | 403 ^b 411 ^b | 44 45 | 43 43 | 40 41 | 40 41 | 52 52 | |
| | 418 | 44 | 42 | 39 | 39 | 52 | |
| | 419, 420, 539 | 42 | 40 | 38 | 38 | 52 | |
| | 421, 424 | 41 | 40 | 38 | 38 | 52 | |
| | 423 | 42 | 40 | 39 | 39 | 52 | |
| | 538 ^b | 42 | 41 | 38 | 38 | 52 | |
| | All other privately- | 40 | 40 | 35 | 35 | 52 | |
| | owned properties | ecocoment / continue | formed to in Table 4 | phown in Annondis 2 | | | |
| | THE HOUSE HE | | ferred to in Table 1 are pise mitigation under co | | dule | | |
| B2 | Noise generated by the development must be monitored and measured in accordance with the relevant procedures and exemptions (including certain meteorological conditions) of the <i>NSW Noise Policy for Industry</i> (EPA, 2017). The noise enhancing meteorological conditions determined by monitoring at the meteorological station required under condition B26 and as defined in Part D of the Noise Policy for Industry (EPA, 2017) apply to the noise criteria in Table 1. | | | | | | 4.2.1 |
| В3 | The noise criteri owner/s of the re has advised the | elevant residenc | e or land to exce | eed the noise c | riteria, and the | | 4.1.1 |
| B4 | The Applicant | must: | | | | | |
| | (a) take all low fred | reasonable ste quency noise an | ps to minimise r d other audible o he development | characteristics, | | | 3.3 |
| | manage | ement with near | and feasible by mines (in part bise impacts; | ticular, the Mt A | | | 4.6 |
| | (c) operate a comprehensive noise management system using 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 consent; | | | | 3.3 | | |
| | | | ps to minimise t meteorological | | cts of the deve | lopment | 3.3.2 |
| | (e) carry out regular attended noise monitoring (at least quarterly, unless otherwise agreed by the Planning Secretary) to determine whether the development is complying with the relevant conditions of this consent; and | | | | | her the | 4.2.1 |
| | | | oise monitoring of Diance with the r | | | | 3.3.3, 4.2.2 |

Maxwell Complex
Owner: HSEC

| Clause | Requirement | | | | | |
|--------|---|---|---|--|-------|--|
| B5 | The Applicant must ensure that blasting on the site does not cause exceedances of the criteria at the locations in Table 2. Table 2: Blasting criteria | | | | | |
| | Location | Airblast overpressure (dB(Lin Peak)) | Ground vibration (mm/s) | Allowable exceedance | | |
| | | 120 | 10 | 0% | | |
| | Residence on privately-owned landa | 115 | 5 | 5% of the total number of blasts over a calendar year | | |
| | Electricity Transmission Lines | - | 50 | 0% | | |
| | Public Roads | - | 100 | 0% | | |
| | All other infrastructure, including the Liddell Ash Dam Wall | - | 50 | 0% | | |
| | a includes any residence at the Coolmore or Woodlands Thoroughbred Studs or the Hollydene Estate | | | | | |
| В6 | owner/s of the relevant | residence or infrastru | if the Applicant has an a ucture to exceed the blas writing of the terms of th | sting criteria, and | 4.4 | |
| B7 | | No blasting is allowed | n the site between 9 am d on Sundays, public hol Planning Secretary. | | 3.5.2 | |
| B8 | The Applicant may ca | irry out a maximum o | f: | | 3.5.2 | |
| | | blast events ^a a day; | | | | |
| | (b) 8 single | blast events ^a a week | , averaged over a calend | daryear. | | |
| В9 | vibration of 0.5 mm/s | or less at any resider | le blast events ^a that gen nce on privately-owned la fety of the mine, its work | and, or to blast | 3.5 | |
| | a single detonation of discrete area of the d | r a number of individu evelopment. Should a | st event' means a blast w lal blasts fired in quick su an additional blast be req misfire are counted as a s | ıccession in a uired after a blast | | |
| B10 | The Applicant must: | | | | 3.5.1 | |
| | (a) take all reasona (i) ensure the developm | e safety of people and | d livestock from the blas | ting impacts of the | | |
| | (ii) protect pu the site fro | blic and private infra- om blasting damage a | structure and property in associated with the deve | | | |
| | ` ' | blast-related dust and | | e public to get up | 254 | |
| | | | nterested members of the plasting schedule on the | | 3.5.4 | |
| | | te with any nearby m | leavours to co-ordinate t ines (including Mt Arthur | | 4.6 | |

| Clause | Requirement | Section of Plan |
|--------|---|--------------------|
| | (d) carry out blast monitoring, if required by a written direction issued by the Planning Secretary, to determine whether the development is complying with the relevant conditions of this consent. | 4.5 |
| B11 | The Applicant must not undertake blasting on the site within 500 metres of any public road or any land outside the site not owned by the Applicant, unless the blast generates ground vibration of 0.5 mm/s or less, or the Applicant has: | 3.5.3 |
| | a written agreement with the relevant infrastructure owner or landowner to allow blasting to be carried out closer to the public road or land, and the Applicant has advised the Department in writing of the terms of this agreement; or | |
| | (b) demonstrated, to the satisfaction of the Planning Secretary, that the blasting can be carried out closer to the public road or land without compromising the safety of people or livestock or damaging the road or other buildings and structures, and updated the Blast Management Plan required under condition B12(e) of this Schedule to include specific mitigation measures to be implemented while blasting is being carried out within 500 metres of the road or land. | |
| B12 | The Applicant must prepare a Noise and Blasting Management Plan for the development to the satisfaction of the Planning Secretary. This plan must: | This Plan |
| | (a) be prepared by a suitably qualified and experienced person/s whose appointment has been endorsed by the Planning Secretary; | 2.3, Appendix 3 |
| | (b) describe the measures to be implemented to ensure: | |
| | i. compliance with the noise criteria and operating conditions in this consent; | 3.3 |
| | ii. best practice noise management is being employed;iii. noise impacts of the development are minimised during noise-enhancing | 3.3 3.3.2 |
| | meteorological conditions; | 3.3.2 |
| | (c) describe the noise management system in detail; and | 3.3 |
| | (d) include a noise monitoring program that: | |
| | i. uses a combination of real-time and supplementary attended monitoring to evaluate the performance of the development; | 4.2.1, 4.2.3 |
| | ii. monitors noise at the nearest and/or most affected residences; | 4.2.1 |
| | iii. includes a program to calibrate and validate the real-time noise monitoring results with the attended monitoring results over time; | 4.2.4 |
| | iv. adequately supports the noise management system; | 4.2 |
| | v. includes a protocol for distinguishing noise emissions of the development from any neighbouring developments; and | 4.2.1 |
| | vi. includes a protocol for identifying any noise-related exceedance, incident or non-compliance and for notifying the Department and relevant stakeholders of any such event; | 4.7 |
| | (e) include a Blast Management Plan that: | |
| | i. is prepared in consultation with the Coolmore and Woodlands Thoroughbred Studs. | Appendix 4 |
| | describes the blast management system and the measures that will be implemented to ensure compliance with the blasting criteria and operating conditions of this consent; | 3.5 |
| | iii. includes public notification procedures to enable members of the public, particularly surrounding residents and the Coolmore and Woodlands Thoroughbred Studs, to get up-to-date information on upcoming blasting events; and | 3.5.4 |
| | iv. includes a protocol for investigating and responding to blast-related complaints. | 4.9 |
| B13 | The Applicant must not commence construction until the Noise and Blasting Management Plan is approved by the Planning Secretary. | 1.2 |
| B14 | The Applicant must implement the Noise and Blasting Management Plan as approved by the Planning Secretary | 1.2 |

| Clause | Requirement | | Section of Plan |
|--------|---|--|-----------------|
| B26 | Applicant must ensure the vicinity of the site that: (a) complies with the Analysis of Air Poll (b) is capable of meas Noise Policy for In | requirements in the Approved Methods for Sampling and utants in New South Wales (DEC, 2007); and suring meteorological conditions in accordance with the <i>NSW dustry</i> (EPA, 2017), unless a suitable alternative is approved accretary following consultation with the EPA. | 4.3 |
| C2 | Measurement and monitoring of compliance with performance measures and performance indicators in this consent is to be undertaken using generally accepted methods that are appropriate to the environment and circumstances in which the feature or characteristic is located. These methods are to be fully described in the relevant management plans and monitoring programs. In the event of a dispute over the appropriateness of proposed methods, the Planning Secretary will be the final arbiter. | | |
| D1 | Upon receiving a written request for mitigation from the owner of any residence on the privately-owned land a listed in Table 11 the Applicant must implement additional mitigation measures at or in the vicinity of the residence in consultation with the landowner. These measures must be consistent with the measures outlined in the <i>Voluntary Land Acquisition and Mitigation Policy for State Significant Mining, Petroleum and Extractive Industry Development</i> (NSW Government, 2014). They must also be reasonable and feasible, proportionate to the level of predicted impact and directed towards reducing the noise and/or air quality impacts of the development. The Applicant must also be responsible for the reasonable costs of ongoing maintenance of these additional mitigation measures until the cessation of mining operations. **Table 11: Land subject to additional mitigation upon request** | | 3.3.4 |
| | Mitigation Basis | Land | |
| | Noise | 402, 403, 411 and 538 | |
| D2 | ^a The locations of the land referred to in Table 11 are shown in Figure 6 in Appendix 3. If within 3 months of receiving this request from the owner, the Applicant 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 Planning Secretary for resolution. | | |
| D3 | Planning Secretary for resolution. Within one month of the date of this consent, the Applicant must: (a) notify in writing the owner of: (i) the residences on the land listed in Table 11 that they are entitled to ask the Applicant to install additional mitigation measures at the residence; and (ii) any privately-owned land within 3 kilometres of the underground portal at the MEA that they are entitled to ask the Applicant for an inspection to establish the baseline condition of any buildings or structures on their land, or to have a previous property inspection report updated; (b) notify the tenants of any mine-owned land of their rights under this consent; and (c) send a copy of the fact sheet entitled "Mine Dust and You" (NSW Health, 2017) to the owners and/or existing tenants of any land (including mine-owned land) where the predictions in the document/s listed in condition A2(c) identify that dust emissions generated by the development are likely to be greater than the relevant air quality criteria identified in condition B16 at any time during the life of the development. | | |
| D5 | showing an exceedance | and no longer than 7 days after obtaining monitoring results of any noise or air quality criterion in PART B of this consent, de the details of the exceedance to any affected landowners, | 4.7 |

| Clause | Requirement | Section of Plan | | |
|--------|--|----------------------|--|--|
| D7 | If a landowner considers the development to be exceeding any relevant air quality or noise criterion in Part B of this consent, they may ask the Planning Secretary in writing for an independent review of the impacts of the development on their residence or land. | 4.9 | | |
| D8 | If the Planning Secretary is not satisfied that an independent review is warranted, the Planning Secretary will notify the landowner in writing of that decision, and the reasons for that decision, within 21 days of the request for a review | 4.9 | | |
| D9 | If the Planning Secretary is satisfied that an independent review is warranted, within 3 months, or other timeframe agreed by the Planning Secretary and the landowner, of the Planning Secretary's decision, the Applicant must: (a) commission a suitably qualified, experienced and independent person, whose appointment has been approved by the Planning Secretary, to: | 4.9 | | |
| | (i) consult with the landowner to determine their concerns; (ii) conduct monitoring to determine whether the development is complying with the relevant criteria in PART B or PART C; and (iii) if the development is not complying with the relevant criterion, identify measures that could be implemented to ensure compliance with the relevant criterion; and (b) give the Planning Secretary and landowner a copy of the independent review; and | | | |
| | (c) comply with any written requests made by the Planning Secretary to implement any findings of the review. | | | |
| E4 | The Applicant must assess and manage development-related risks to ensure that there are no exceedances of the criteria and performance measures in this consent. Any exceedance of these criteria or performance measures constitutes a breach of this consent and may be subject to penalty or offence provisions under the EP&A Act or EP&A Regulation. | 4.8 | | |
| | Where any exceedance of these criteria or performance measures has occurred, the Applicant must, at the earliest opportunity: (a) Take all reasonable and feasible steps to ensure that the exceedance ceases and does not recur; (b) Consider all reasonable and feasible options for remediation (where relevant) and submit a report to the Department describing those options and any preferred remediation measures or other course of action; and (c) Implement reasonable remediation measures as directed by the Planning Secretary. | | | |
| E5 | Management plans required under this consent must be prepared in accordance with relevant guidelines, and include: | | | |
| | (a) a summary of relevant background or baseline data;(b) details of: | 1.1, 3.1 | | |
| | (i) the relevant statutory requirements (including any relevant approval, licence or lease conditions); (ii) any relevant limits or performance measures and criteria; and (iii) the specific performance indicators that are proposed to be used to judge the performance of, or guide the implementation of, the | 4.1, 4.4 4.1, 4.4 | | |
| | development or any management measures; (c) any relevant commitments or recommendations identified in the | Appendix 2 | | |
| | document/s listed in condition A2(c); (d) a description of the measures to be implemented to comply with the relevant statutory requirements, limits, or performance measures and criteria; | 3 | | |
| | (e) a program to monitor and report on the: | 4, 5.2 | | |
| | (i) impacts and environmental performance of the development; and (ii) effectiveness of the management measures set out pursuant to condition E5(c); | | | |

| Clause | Requirement | Section of Plan |
|--------|---|-----------------|
| | a contingency plan to manage any unpredicted impacts and their consequences and to ensure that ongoing impacts reduce to levels below relevant impact assessment criteria as quickly as possible; | 4.8 |
| | a program to investigate and implement ways to improve the environmental performance of the development over time; | 5.6 |
| | (h) a protocol for managing and reporting any: (i) incident, non-compliance or exceedance of any impact assessment criterion or performance criterion); | 4.7 |
| | (ii) complaint; or | 4.8 4.7 |
| | (iii) failure to comply with other statutory requirements; (i) public sources of information and data to assist stakeholders in understanding environmental impacts of the development; and | 5.4 |
| | (j) a protocol for periodic review of the plan. | 5.1 |
| | Note: The Planning Secretary may waive some of these requirements if they are unnecessary or unwarranted for particular management plans. | |
| E6 | The Applicant must ensure that management plans prepared for the development are consistent with the conditions of this consent and any EPL issued for the site. | |
| E7 | Within three months of: | |
| | (a) the submission of an incident report under condition E9; | 5.1 |
| | (b) the submission of an Annual Review under condition E11; | |
| | (c) the submission of an Independent Environmental Audit under condition E12; | |
| | (d) the approval of any modification of the conditions of this consent (unless the conditions require otherwise); or | |
| | (e) notification of a change in development phase under condition A13; | |
| | The suitability of existing strategies, plans and programs required under this consent must be reviewed by the Applicant. | |
| E8 | If necessary, to either improve the environmental performance of the development, cater for a modification or comply with a direction, the strategies, plans and programs required under this consent must be revised, to the satisfaction of the Planning Secretary. Where revisions are required, the revised document must be submitted to the Planning Secretary for approval within six weeks of the review. | |
| | Note: This is to ensure strategies, plans and programs are updated on a regular basis and to incorporate any recommended measures to improve the environmental performance of the development.: | |
| E9 | The Applicant must immediately notify the Department and any other relevant agencies immediately after it becomes aware of an incident. The notification must be in writing to compliance@planning.nsw.gov.au and identify the development (including the development application number and name) and set out the location and nature of the incident | 4.7 |

| Clause | Requirement | Section of Plan |
|--------|---|-----------------|
| E10 | Within seven days of becoming aware of a non-compliance, the Applicant must notify the Department of the non- compliance. The notification must be in writing to compliance@planning.nsw.gov.au and identify the development (including the development application number and name), set out the condition of this consent that the development is non-compliant with, why it does not comply and the reasons for the non-compliance (if known) and what actions have been, or will be, undertaken to address the non-compliance. Note: A non-compliance which has been notified as an incident does not need to also be notified as a non-compliance. | 4.7 |
| E11 | By the end of March in each year after the commencement of the development, or other timeframe agreed by the Planning Secretary, a report must be submitted to the Department reviewing the environmental performance of the development, to the satisfaction of the Planning Secretary. This review must: (a) describe the development (including any rehabilitation) that was carried out in the previous calendar year, and the development that is proposed to be carried out over the current calendar year; (b) include a comprehensive review of the monitoring results and complaints records of the development over the previous calendar year, including a comparison of these results against the: (i) relevant statutory requirements, limits or performance measures/criteria; (ii) requirements of any plan or program required under this consent; (iii) monitoring results of previous years; and (iv) relevant predictions in the document/s listed in condition A2(c). (c) identify any non-compliance or incident which occurred in the previous calendar year, and describe what actions were (or are being) taken to rectify the non-compliance and avoid reoccurrence; (d) evaluate and report on: (i) the effectiveness of the noise and air quality management systems; and (ii) compliance with the performance measures, criteria and operating conditions of this consent; (e) identify any trends in the monitoring data over the life of the development; (f) identify any discrepancies between the predicted and actual impacts of the development, and analyse the potential cause of any significant discrepancies; | 5.2 |
| E12 | and (g) describe what measures will be implemented over the next calendar year to improve the environmental performance of the development. Copies of the Annual Review must be submitted to Council and made available to | 5.2 |
| E16 | Noise and/or air quality monitoring under this consent may be undertaken at suitable representative monitoring locations instead of at privately-owned residences or other locations listed in Part B, providing that these representative monitoring locations are set out in the respective management plan/s. | 4.2.1 |

| Clause | Requirem | nent | Section of Plan |
|--------|----------|---|-----------------|
| E17 | | ne commencement of construction until the completion of all rehabilitation under this consent, the Applicant must: | |
| | арр | ke the following information and documents (as they are obtained, roved or as otherwise stipulated within the conditions of this consent) licly available on its website: | 5.4 |
| | (i) | the documents referred to in condition A2(c) of this consent; | |
| | (ii) | all current statutory approvals for the development; | |
| | (iv) | all approved strategies, plans and programs required under the conditions of this consent; | |
| | (v) | the proposed staging plans for the development if the construction, operation or decommissioning of the development is to be staged; | |
| | (vi) | minutes of CCC meetings; | |
| | (vii) | regular reporting on the environmental performance of the development in accordance with the reporting requirements in any plans or programs approved under the conditions of this consent; | |
| | (viii) | a comprehensive summary of the monitoring results of the development, reported in accordance with the specifications in any conditions of this consent, or any approved plans and programs; | |
| | (ix) | a summary of the current phase and progress of the development; | |
| | (x) | contact details to enquire about the development or to make a complaint; | |
| | (xi) | a complaints register, updated monthly; | |
| | ` ' | the Annual Reviews of the development; | |
| | (xiii) | audit reports prepared as part of any Independent Environmental Audit of the development and the Applicant's response to the recommendations in any audit report; | |
| | (xiv) | any other matter required by the Planning Secretary; and | |
| | ` ' | keep such information up to date, to the satisfaction of the Planning Secretary. | |

Development Consent DA 106-04-00

Note: The noise criteria outlined in the Drayton Rail Loop and Antiene Rail Spur Development Consent (106-04-00) are overridden by the conditions in the Development Consent SSD 9526 where inconsistencies exist.

| e | Requirement | 2000000 | | Section of Plan |
|----|--|---|---|-----------------------------|
| on | Drayton rail loop and Anti with the total cumulative is coal mine, Bayswater rail Antiene rail spur, and pro exceed the dB(A) Leq(9 is mine owned dwellings (resulted that the noise levels from | e date of this consent, the applications to limit the cumulative in tene rail spur such that these noise contributions from the loading facility and rail loop posed Mount Arthur North phour/4 hour/11 hour) noise limiter also condition 10.1). The the Drayton rail loop and Arminute) noise limits also she is consent. | oplicant shall cooperate with noise contributions from the enoise levels in conjunction operations of the Drayton, Bayswater mine and the roject if approved, do not mits in Table 2 at any noneapplicant shall also ensure ntiene rail spur alone do not | 4.1.1, 4.1. |
| | Night Time | Table 2: Noise limits | Day Timo | |
| | Night Time (10pm – 7am) | Evening Time (6pm – 10pm) | Day Time (7am – 6pm) | |
| | 40 Leq(9 hour) dB(A) | 40 Leq(4 hour) dB(A) | 40 Leq(11 hour) dB(A) | |
| | 38 Leq(15 minute) dB(A) | 38 Leq(15 minute) dB(A) | 38 Leq(15 minute) dB(A) | |
| | levels in Table 2, a means to the satis (ii) Following the ana the satisfaction of might not achieve | and a quantitative analysis of faction of the EPA. lysis at (i) above, the applica f the EPA, the best alterna | required to achieve the noise the cost effectiveness of such ant is required to determine, to tive mitigation measures that re considered reasonable and nt. | used in Section 4.1.3 |
| | the cumulative operation mine, Bayswater rail load and proposed Mount Are exceedance of noise lever hour/4 hour/11 hour) naffectation for the Drayt exceedance of noise lever mine. | n of the Drayton rail loop, A ding facility and rail loop, Bay thur North project if approve yels at any non-mine owned oise limits shown in Table on rail loop and Antiene spu | he area of noise affectation for antiene rail spur, Drayton coarswater mine, Antiene rail spur, id, is defined by demonstrated dwellings of the dB(A) Leq(9 3 below. The area of noise ur is defined by demonstrated dwellings of the dB(A) Leq(15) | 4.1.2 |
| | | | | |
| | | ole 3: Noise Affectation Cri | | 12 |
| | Night Time (10pm – 7am) | ole 3: Noise Affectation Cri Evening Time (6pm – 10pm) | Day Time 7am – 6pm) | |
| | Night Time | Evening Time | Day Time | |

Maxwell Complex

Owner: HSEC

Document Title: Noise and Blasting Management Plan

Filename: MXC_MP_EC_04

| Clause | Requirement | Section of Plan |
|------------------|--|---------------------|
| Section 5.3.2 | Noise Management Plan (a) The Applicant shall within three months of the date of this consent, prepare a Noise | This NBMP |
| | Management Plan for the Drayton rail loading facility (now known as the Maxwell Infrastructure rail loading facility) and Antiene rail spur, to the satisfaction of the Director-General. The Plan shall be prepared in consultation with the owner of Bayswater rail loading facility (now known as the Mt Arthur Coal rail loading facility and rail loop) with the aim of achieving a consistent approach in the preparation of the Drayton rail loading facility noise management plan. The Plan shall: Include details of the conduct of noise investigations at three monthly intervals (unless otherwise agreed by the Director-General) to evaluate, assess and report the both the Leq (15 minute) (project alone) and Leq(9 hour/4 hour/11 hour) (cumulative) noise emission levels due to normal coal transport operations under adverse weather conditions. | 4.2 |
| | Include details of the proposed methodologies including establishing the Drayton rail loop and Antiene rail spur operating configuration; determining survey intervals; weather conditions and seasonal variations; selecting variations, locations, periods and times of measurements. | 4.2 |
| | Outline the design of any noise monitoring and noise modelling or other studies including the means for determining the noise levels emitted by the operations. | 4.2 |
| | Particularly focus on the management of night-time noise (10.00pm – 7.00am) for each year of operation. | 4.2 |
| | ldentify noise affected properties and the relevant noise limits consistent with the EIS, the additional noise information requested by the EPA and supplied by Umwelt (Australia Pty Limited) in a letter dated 15 June 2000; with results of extended noise monitoring and in a letter dated 20 July 2000 and accompanying report titled "Response to EPA Submission of 5 July 2000; and the Drayton Coal Pty Ltd Response to Summary of Submissions received from DUAP on 2 June 2000, prepared by Umwelt (Australia) Pty Ltd, August 2000. | 4.1 |
| | Specify the procedures for a noise-monitoring program for the purpose of undertaking independent noise investigations, in consultation with the owners of Bayswater mine (now Mt Arthur Coal), as necessary. | 4.9 |
| | Outline the procedure to notify property owners and occupiers likely to be affected by noise from the operations. | 3.3.4 |
| | Establish a protocol for handling noise complaints that include recording, reporting and acting on complaints. | 4.9 |
| | Record appropriate mechanisms for community consultation. Outline mitigation measures to be employed on the site to limit noise emissions. | 5.2 3.3 |
| | Identify longer-term strategies directed towards mitigating noise levels that exceed the noise criteria in Table 2 under adverse meteorological conditions. Outline measures to be used to reduce the impact of intermittent, low | 3.3, 3.3.2 3.2.2 |
| | frequency and tonal noise (including any truck reversing alarms). > Specify measures to be taken to document any higher level of impacts or patterns of temperature inversions, and detail actions to quantify and ameliorate enhanced impacts if they lead to exceedance of the relevant noise criteria. | 3.3.2 |
| | criteria. Survey and investigate noise reduction measures, if required, from plant and equipment annually, subject to noise monitoring results and/or complaints received, and report in the AEMR at the conclusion of the first 12 months of operations and set targets for noise reduction taking into consideration valid | |
| | noise complaints in the previous year. The Report shall also include remedial measures to achieve compliance with the specified noise goals. Include details of the integration of this plan with the existing Drayton mine Noise Management Plan, and its inter-relationship with the Bayswater rail facility noise management plan. | 5.2 |
| | (b) Prior to the commencement of operations, the applicant shall ensure cladding is added to the northern side of the Drayton Coal Handling Facility, extending from | |
| | ground level to the top of the conical section of both loading bins, with an internal | |

| Clause | Requirement | Section of Plan |
|------------------|--|--|
| | facing of absorbing material and vibration isolated from the existing structure as described in the EIS. (c) The Applicant shall also: | 3.3.1 |
| | Make copies of the Plans available to the EPA, MSC and CCC within fourteen days of approval, or as otherwise agreed to by the Director-General; and Include a summary of noise monitoring results in the AEMR. | 5.4 |
| Section 5.3.3 | Noise Monitoring (a) The levels of noise emitted from the premises must be monitored for 72 hrs every 3 months unless otherwise agreed by the Director-General at locations agreed to in consultation with the EPA. The monitoring must determine the LAeq, 9hour, LAeq, 15min, LA10, 15min, LA90, 15min, and LA1, 1min and include an assessment of the impact of operational noise on adjoining residents. (b) Noise monitoring at the specified locations must be undertaken during daytime (7.00am- 6.00pm), evening (6.00pm-10.00pm) and night-time (10.00pm-7.00am). | Condition superseded by SSD 9526 Refer to Section 4.2.1 |

Environment Protection Licence 1323

| Requiremen | t | | |
|-------------------------|---|---|---|
| established table below | rated at the premises that is m under this licence must not ex for that point during the corres sing the corresponding measu | ceed the noise levels specific sponding time periods specific | ed in Column 4 of the ed in Column 1 when |
| Time period | Measurement parameter | Measurement frequency | Noise level dB(A) |
| Day | Day-LAeq (15 minute) | Monthly | 45 |
| Evening | Evening-LAeq (15 minute) | Monthly | 41 |
| Night | Night-LAeq (15 minute) | Monthly | 41 |
| Night | LAmax | Monthly | 52 |
| Point 17 | | | |
| Time period | Measurement parameter | Measurement frequency | Noise level dB(A) |
| Day | Day-LAeq (15 minute) | Monthly | 44 |
| Evening | Evening-LAeq (15 minute) | Monthly | 40 |
| Night | Night-LAeq (15 minute) | Monthly | 40 |
| Night | LAmax | Monthly | 52 |
| Point 18 | | | |
| Time period | Measurement parameter | Measurement frequency | Noise level dB(A) |
| Day | Day-LAeq (15 minute) | Monthly | 40 |
| Evening | Evening-LAeq (15 minute) | Monthly | 35 |
| Night | Night-LAeq (15 minute) | Monthly | 35 |
| Night | LAmax | Monthly | 52 |

| Clause | Requirement | t | | Section of Plan |
|--------|----------------------------|---|---|-----------------|
| | 16 | Noise monitoring | Monitoring location NM1 (EPA Monitoring Location 16) at coordinates 306016, 6420858 (Easting, Northing) as shown on plan titled "Maxwell UG Project Noise Monitoring Locations V3" dated 28 July 2021. Representative of receiver 411 as outlined in "Maxwell Project Appendix I Noise Impact Assessment" dated 13 June 2019. | Figure 1 |
| | 17 | Noise monitoring | Monitoring location NM2 (EPA Monitoring Location 17) at coordinates 304949, 6422155 (Easting, Northing) as shown on plan titled "Maxwell UG Project Noise Monitoring Locations V3" dated 28 July 2021. Representative of receiver 403 as outlined in "Maxwell Project Appendix I Noise Impact Assessment" dated 13 June 2019. | |
| | 18 | Noise monitoring | Monitoring location NM3 (EPA Monitoring Location 18) at coordinates 298037, 6407215 (Easting, Northing) as shown on plan titled "Maxwell UG Project Noise Monitoring Locations V3" dated 28 July 2021. Representative of receiver 227F as outlined in "Maxwell Project Appendix I Noise Impact Assessment" dated 13 June 2019 | |
| L3.2 | a) Day is de Sunday and | oses of condition L3.1: fined as the period from 7 am to 6 p Public Holidays; s defined as the period 6 pm to 10 p | om Monday to Saturday and 8 am to 6 pm | 4.1.1 |
| | c) Night is d | · | 7 am Monday to Saturday and 10 pm to 8 | |

| Clause | Requirement | | | | Section of Plan |
|--------|--|--|----------------------------------|--|-----------------|
| L3.3 | The noise limits set conditions: | out in condition L3.1 apply | y under the following m | eteorological | 3.3.2 |
| | Receiver | Assessment Period | NPfl Meteorological Condition | Description fo Meteorological Parameters | |
| | Northern | Daytime | Noise-enhancing | 3 m/s wind in ESE, SE, SSE, W, WNW, NW & NNW directions; stability categories A-D | |
| | Northern | Daytime | Standard | 0.5 m/s wind in source-to-receiver direction; stability categories A-D | |
| | Northern | Evening | Standard | 0.5 m/s wind in source-to-receiver direction; stability categories A-D | |
| | Northern | Night | Noise-enhancing | Stability category F; no wind component | |
| | Northern | Night | Standard | 0.5 m/s wind in source-to-receiver direction; stability categories A-D | |
| | Southern | Daytime | Standard | 0.5 m/s wind in source-to-receiver direction; stability categories A-D | |
| | Southern | Evening | Standard | 0.5 m/s wind in source-to-receiver direction; stability categories A-D | |
| | Southern | Night | Noise-enhancing | Stability category F; no wind component | |
| | Southern | Night | Standard | 0.5 m/s wind in source-to-receiver direction; stability categories A-D | |
| | | eceiver direction was cons the source-to-receiver d | | • | |
| _3.4 | | egical conditions not referr | | the noise limits that | 3.3.2 |
| _3.5 | the meteorological v b) Stability Category | condition L3.3 to be deter veather station identified a v shall be determined by the Policy for Industry (NSW | as Maxwell Infrastructur | e CHPP AWS and | 3.3.2 |
| _3.6 | a) with the Leq(15 must be located: | ninute) noise limits in cond | dition L3.1, the noise mo | easurement equipment | 4.2.1 |
| | | the property boundary, whary closes to the Premises | | ated 30 m or less from | |
| | | welling façade, but not clo more than 30 m from the p | | | |
| | | tely 50 m of the boundary ninute) noise limits in cond | | | |
| | | ed point at a location wher | | | |
| | ii) at the most affect | ed point within an area at | a location prescribed b | y condition L3.6 a). | |

| Clause | Requirement | | | | Section of Plan |
|--------|--|--|---|---|-----------------|
| L3.7 | is measured in excess (a) a location other than b) a point other than the Note: The reasonably m | of the noise limit at: an area prescribed by a most affected point at a street affected point is a | conditions L3.6 a) a location. | , | 4.2.1 |
| L4.1 | exceed: 115 dB (Lin Peak) for more than 5% of the total number of blasts during each reporting period; at either monitoring Point 13, 14 or 15 in Condition P1.4. 13 Air blast overpressure & ground vibration peak Monitoring location BM1 (EPA Monitoring) | | | s during each reporting | 4.4, 4.5 |
| | particle veloci 14 Air blast overp particle veloci | ressure & ground vibration | 6422371 plan titled Monitorin peak Monitorin Location 6407512 plan titled | 13) at coordinates 304200, (Easting, Northing) as shown on a "Maxwell UG Project Blast ag Locations" dated 21 May 2021. In It is location BM2 (EPA Monitoring 14) at coordinates 298813, (Easting, Northing) as shown on a "Maxwell UG Project Blast" | |
| | 15 Air blast overp particle veloci | ressure & ground vibration y monitoring | peak Monitorin Location 6410964 plan titled | ng Locations" dated 21 May 2021. ng location BM3 (EPA Monitoring 15) at coordinates 292895, (Easting, Northing) as shown on nd "Maxwell UG Project Blast ng Locations" dated 21 May 2021. | |
| L4.2 | The airblast overpressure level from blasting operations in or on the premises must not exceed: 120 dB (Lin Peak) at any time; at either monitoring point 13, 14 or 15 in Condition P1.4. | | | 4.4, 4.5 | |
| L4.3 | The ground vibration peak particle velocity from blasting operations carried out in or on the premises must not exceed: 5 mm/second for more than 5% of the total number of blasts during each reporting period; at either monitoring point 13, 14 or 15 in Condition P1.4. | | | 4.4, 4.5 | |
| L4.4 | The ground vibration per premises must not excess 10 mm/second at any till at either monitoring poir | ed: me; | | ons carried out in or on the | 4.4, 4.5 |
| L4.5 | Blasting in or on the Premises must only be carried out between 0900 hours and 1700 hours, Monday to Saturday (inclusive). Blasting in or on the Premises must not take place on Sundays or Public Holidays without the prior written approval of the EPA. | | | 3.5.2 | |
| L4.6 | Offensive blast fume mu | ust not be emitted from | the premises. | | 3.5.1 |
| M7.1 | • | | | 4.5, 4.5 | |
| | Parameter | Units of Measure | Frequency | Sampling Method | |
| | Airblast Overpressure Ground Vibration Peak | Decibels (Linear Peak) millimetres/second | All blasts | Australian Standard AS 2187.2-2006 Australian Standard AS | |
| | Particle Velocity | | 7 III Diddio | 2187.2-2006 | |

| Clause | Requirement | Section of Plan |
|--------|---|-----------------|
| M9.1 | Attended noise monitoring must: a) occur monthly in a reporting period b) occur during each day, evening and night period for a minimum of: i) 1.5 hours during the day ii) 30 minutes during the evening; and iii) 1 hour during the night, c) occur for three consecutive operating days or as otherwise specified by the EPA | 4.2.1 |

Mining Leases

| Condition | Details | Reference |
|--|---|------------------------------|
| ML1531 Condition 26 & CL 229 Condition 26 | Blasting The lease holder shall monitor noise and vibration and institute controls, generally in accordance with the recommendations of Australian Standard AS-2187 1993 and ANZEC Guidelines | 4.5 |
| | a) Ground Vibration The lease holder shall design all blasts on the basis that the ground vibration peak particle velocity generated by any blasting within the subject area, shall not exceed the levels in or conditions of the EPA Licence for the mine, at any dwelling or occupied premises not owned by the lease holder, the holder of an authority under the Mining Act, or not subject to a valid agreement with the lease holder, with respect to the effects of blasting. | 3.5.1, 4.4 |
| | b) Blast Overpressure The lease holder shall design all blasts on the basis that the blast overpressure noise level generated by any blasting within the subject area, shall not exceed the levels in or conditions of the EPA Licence for the mine, at any dwelling or occupied premises not owned by the lease holder, the holder of an authority under the Mining Act, or not subject to a valid agreement with the lease holder, with respect to the effects of blasting. | 3.5.1, 4.4 |
| CL 395 Condition 11 | a) Ground Vibration The lease holder must ensure that the ground vibration peak particle velocity generated by any blasting within the lease area does not exceed 10 mm/second and does not exceed 5 mm/second in more than 5% of the total number of blasts over a period of 12 months at any dwelling or occupied premises as the case may be, unless determined otherwise of the Department of Environment and Conservation. | 3.5.1, 4.4 |
| | b) Blast Overpressure The lease holder must ensure that the blast overpressure noise level generated by any blasting within the lease area does not exceed 120 dB (linear) and does not exceed 115 dB (linear) in more than 5% of the total number of blasts over a period of 12 months, at any dwelling or occupied premises, as the case may be, unless determined otherwise of the Department of Environment and Conservation. | 3.5.1, 4.4 |
| ML 1531 Condition 55 | Annexure A Methods of Operation (Prescribed Dams) Notwithstanding a Mining Operations Plan, the lease holder must not mine within any part of the lease area which is within the notification area of the Liddell Ash Dam without the prior written approval of the Minister and subject to any condition he may stipulate | Drayton-2 Approval 4.4 |
| | Drayton-2 Approval | |

| Condition | Details | Reference |
|---|---|---|
| Annexure D Condition 14.1 | The Company shall ensure that peak particle velocities generated as a result of mining will not exceed 50 mm/s at any point on the Dam. A minimum requirement is that monitoring of blast vibration occurs at the point on the embankment crest nearest to the blast, and at a point on the downstream toe (at maximum height section). | Not relevant to this plan (refer to Section 4.4) |
| Annexure D Condition 14.2 | The Company will develop and implement a program to monitor particle velocities generated by mining at sites on the dam and will inform the DSC of the details of this monitoring program as soon as possible. | Not relevant to this plan (refer to Section 4.4) |
| Annexure D Condition 14.3 | Written reports on the results of the monitoring outlined in the above condition 14.2 shall be submitted to DSC at intervals specified in Annexure E (Monthly) | Not relevant to this plan (refer to Section 4.4) |
| Annexure D Condition 14.4 | The DSC will be informed immediately if peak particle velocities, as a result of mining at any point on the dam, exceed 20 mm/s. | Not relevant to this plan (refer to Section 4.4) |
| Annexure D Condition 14.5 If peak particle velocities exceed the limits set in the above condition 14.4, the the DSC may require an inspection of the dam by a suitable dams engineer. | | Not relevant to this plan (refer to Section 4.4) |
| Annexure D1 Condition 2.1 | The Company shall undertake a safety inspection of the dam, to a standard acceptable to the Committee, after each blast. | Not relevant to this plan (refer to Section 4.4) |
| Annexure D1 Condition 2.2 | The Company shall submit a report on the dam inspection results at intervals and in a format as specified in Annexure E (monthly). | Not relevant to this plan (refer to Section 4.4) |

APPENDIX 2 – MAXWELL PROJECT EIS AND SUPPORTING DOCUMENT COMMITMENTS

| Source | Details | Reference |
|-----------------------------------|---|-----------------|
| | Real-time Monitoring and Meteorological Forecasting System | |
| | The noise management system for the Project would include a real-time noise and meteorological monitoring network, as well as a meteorological forecasting system. | 3.3 |
| EIS Section 6.9.5 and 8.2.6 | Real-time noise monitors would be installed in locations that would provide representative noise levels at privately-owned receivers most likely to experience noise impacts associated with the Project (e.g. to the north of the Maxwell Infrastructure). Locations for these monitors would be determined once operations commence and in consultation with the relevant government agencies and local landowners. | 4.2.3 |
| | Real-time meteorological data would be recorded at the Maxwell Infrastructure AWS (or a suitable replacement) | 4.3 |
| EIS Section 8.2.6 | A meteorological forecasting system will also be implemented for the Project to anticipate upcoming periods of adverse weather conditions (e.g. based on wind speed, direction and atmospheric stability). | 3.3.3 |
| | Attended Noise Monitoring | 4.2.1 |
| EIS Section 6.9.5 and | Attended noise monitoring would be undertaken regularly at locations representative of the most sensitive receivers to determine compliance of Project noise levels with relevant Development Consent criteria. Monitoring results would be assessed against the NPfI with respect to | |
| 8.2.6 | modifying factors (including for low frequency noise). If monitoring results are found to contain dominant low-frequency content, appropriate modifying factors would be applied to measured noise levels, in accordance with the NPfI, to account for additional annoyance at the receiver. | |
| | Noise Management Plan | |
| | A Noise Management Plan would be prepared for the Project, which would describe the noise management system for the Project, including details of: | |
| | applicable Development Consent noise and vibration criteria; | 4.1, 4.4 |
| | the noise mitigation measures for the Project; | 3.3 |
| EIS Section | attended noise monitoring locations; | 4.2.1, Figure 1 |
| 6.9.5 and | real-time noise monitoring locations; | 4.2.3, Figure 1 |
| 8.2.6 | the predictive meteorological forecasting system; | 3.3.3 |
| | the pro-active noise management system; | 3.3.3 |
| | specified trigger levels for the implementation of additional mitigation measures; | 3.3.3 |
| | protocols for the implementation of additional mitigation measures; and | 3.3.3 |
| | complaint response protocols. | 4.9 |

Maxwell Complex
Owner: HSEC

Page 49 of 69

| Source | Details | Reference |
|------------------------------------|---|--------------------------|
| | Noise Management Zone The privately-owned receivers where noise emissions are predicted to exceed the Project Noise Trigger Levels (i.e. with either negligible or marginal exceedances) would be classified as being within the Project's noise management zone. In addition to the mitigation measures described above, proposed | |
| EIS Section 6.9.5 and 8.2.6 | management procedures for receivers in this zone would include: response to any community issues of concern or complaints including discussions with relevant landowners; refinement of on-site noise mitigation measures and mine operating procedures; and implementation of feasible and reasonable acoustical mitigation at receivers with predicted marginal residual impacts, in accordance with the Voluntary Land Acquisition and Mitigation Policy. | 4.9 4.8, 5.6 3.3.4 |
| EIS Section 6.9.5 and 8.2.6 | Maxwell would design the parameters required for any blasting activities (e.g. for construction, or at the Maxwell Infrastructure for closure activities) with a high margin of conservatism to meet the applicable criteria at the nearest sensitive receivers or any proximal infrastructure (e.g. Liddell Ash Dam). | 3.5.1 |
| EIS Section 6.9.6 | maina lavala at magairem lagations | |
| EIS Section 6.9.6 | operations as may be required. The Noise Management Plan would provide details on the operation of the pro-active noise management system. It is anticipated that the process would involve a review of meteorological forecasting data by a nominated person prior to the commencement of each mining shift. If favourable | |
| EIS Section 6.9.6 | During operations, if noise from the Project exceeds specified trigger levels, Maxwell personnel would be alerted and additional mitigation measures would be implemented until noise levels reduce below the trigger levels. This would occur even if surface operations have already been modified. The trigger levels would be specified such that the equivalent noise level at the closest receivers would be below the permitted maximum operational noise levels. | 3.3.3 |
| EIS Section 6.15.4 and 8.2.6 | The Project would use locomotives and rolling stock approved to operate on the NSW rail network in accordance with EPLs issued by the EPA. | 3.3.1 |
| EIS Section 6.15.4 and 8.2.6 | Project employees would be made aware of the potential for noise impact through site-specific inductions and staff education programs to reinforce quiet driving styles/attitudes. | 6.2 |
| EIS Section 6.15.5 | Project road and rail transport noise adaptive management measures would include response to any community issues of concern or complaints, including discussions with relevant landowners and liaison with rail operators regarding train operating procedures. | 4.8, 4.9 |

| Source | Details | Reference |
|--|---|--------------|
| Maxwell Project Submissions Report Section 6.1.4 | Results of noise monitoring to be conducted for the Project would be assessed against the NPfl with respect to modifying factors (including for low-frequency noise). If monitoring results are found to contain dominant low-frequency content, appropriate modifying factors (i.e. penalties) would be applied to measured levels, in accordance with the NPfl, to account for additional annoyance at the receiver | 3.2.2, 4.2.1 |
| Letter to DPIE 1 June 2020 | No construction-related blasting is proposed within 500 metres of a public road. | 3.5.3 |

APPENDIX 3 – PLANNING SECRETARY ENDORSEMENT



Alex Newton Environment Approvals Coordinator Malabar Coal LTD Thomas Mitchell Drive Muswellbrook, NSW 2333

01/03/2021

Dear Mr Newton

Maxwell Underground (\$SD-9526) Noise and Blasting Management Plan

I refer to your request (SSD-9526-PA-7)) for the Planning Secretary's approval of suitably qualified persons to prepare the Noise and Blasting Management Plan for the Maxwell Underground (SSD-9526).

The Department has reviewed the nominations and information you have provided and is satisfied that these experts are suitably qualified and experienced.

Consequently, I can advise that the Planning Secretary approves the appointment of Neil Gross, Senior Technical Director/Associate Principal at RWDI and John Wasserman (Director at RWDI) to be appointed as a suitably qualified and experienced persons in the preparation of the Noise and Blasting Management Plan.

If you wish to discuss the matter further, please contact Charissa Pillay on 0299955944.

Yours sincerely

Matthew Sprott

Director

Resource Assessments (Coal & Quarries)

As nominee of the Planning Secretary

4 Parramatta Square, 12 Darcy Street, Parramatta 2150 | dpie.nsw .gov.au | 1

APPENDIX 4 – CONSULTATION WITH THE COOLMORE AND WOODLANDS THOROUGHBRED STUDS

Meeting notes from a meeting held on 15 March 2021 between Maxwell and Coolmore and Woodlands Studs.



Key Points of Discussion

Meeting: Consultation for the Maxwell UG Project Noise and Blasting Management

Plan (NBMP)

Time and date: 9.30am on Thursday 15th March 2021

Location: Coolmore meeting room

Attendees: Des Hernon (DH) - Coolmore

Ross Cole (RC) - Godolphin

Michael White (MW) - Mining Consultant engaged by the Coolmore and

Godolphin

James Johnson (JJ) - Malabar Resources

Donna McLaughlin (DM) - Malabar Resources

Key Points:

JJ provided a general update on the Maxwell UG Project including project design and approximate timing. MW requested a project schedule, and JJ agreed to provide a simplified project schedule that outlined the timing for key construction and production activities. JJ advised that the construction phase will begin in Q3 2021 and likely take 12 months.

DM went through the presentation overview document (attached).

RC and MW noted throughout the meeting that the preference from Colmore & Godolphin was for no blasting to occur, noting that Maxwell had indicated in the Project documentation that it would seek to eliminate or minimize blasting. Lots of work is going at Maxwell into developing/completing the Management Plans which require DPIE approval prior to commencement.

RC noted the Godolphin and Coolmore where most interested not in potential exceedances which whilst important did not reflect the representations made to them and the IPC/Government by Maxwell, which was that there would be indistinguishable noise contributions and no impacts from blasting. If blasting and noise impacts were allowed to go to the Consent limits this would not be the case, so Godolphin and Coolmore wished to focus on, and work with Maxwell to achieve the represented result of no impacts, rather than be focused on the limits of the conditions of consent. JJ accepted that position and noted that Maxwell would work towards that joint commitment.

MW questioned the wording in Section 4.5 of the NBMP as it appeared to indicate that Maxwell would only undertake monitoring if required by a written direction from the Planning Secretary. DM confirmed that blast monitoring was required by SSD 9526 and that Maxwell had intended to monitor every surface blast. DM committed to update the wording to better reflect this.

MW questioned if an attended noise monitoring site could be positioned near the Godolphin stud. DM committed to review the attended noise monitoring locations and consider including a location at or near the Woodlands stud. DH indicated that the proposed attended noise monitoring site across the road from the Coolmore entrance would in Maxwell's view be representative. DH requested that BM2 be closer to the Coolmore front flats, either on Coolmore land or on Maxwell's adjacent land at that spot.

 Maxwell Complex
 Document Title: Noise and Blasting Management Plan

 Owner: HSEC
 Filename: MXC_MP_EC_04

DH and RC noted that they would be open to having monitoring sites/equipment installed on their land. DM committed to review the blast monitoring locations and consider locations on land owned by Coolmore and Godolphin. DM suggested that she could also provide some further specifications for the equipment.

DM noted that landholders could request to be notified of a blast via phone, email or as otherwise agreed between both parties. DM also mentioned that any proposed blasts would be included on the MSC blasting announcement webpage. RC noted that it would be Godolphin's (and Coolmore's) preference to be notified in advance and directly. DM acknowledged this, and is to provide a proposal in that regard

MW asked if Maxwell would be willing to share the monitoring data outside and more directly than by publication on the Maxwell website. DM indicated that Maxwell would be willing to consider this and would include further details in the NBMP.

MW asked if underground blasting had been considered and assessed in the EIS. JJ explained that shot firing is used from time to time in underground mining and is significantly less (in size and impact) than surface blasting. JJ committed to take the question on notice and provide a response back to Coolmore and Godolphin.

At project start-up JJ advised that Maxwell will be constructing drifts (inclined access tunnels) to both the Whynot seam (2 drifts approx. 1300metres long) and 2 drifts to the Woodlands Hill seam (approx. 1000metres long).

JJ advised they had tenders out for this and at this stage construction could be either by using road header machinery or by blasting – a decision has not been made.

RC asked if Maxwell would capture the key points from today and circulate them to the attendees for review and comment. DM and JJ agreed to this.

RC noted that Godolphin would like to have a position on and attend the CCC meetings. DH indicated that this was also Coolmore's position RC suggested that MW may attend as a delegate for both Coolmore and Godolphin. DM noted that she would send a request to both Coolmore and Godolphin and they could respond and indicate that MW would be their delegate.

JJ advised that the CCC is a continuation of the existing CCC, and that the Independent Chair is Jennifer Leckie.

Actions:

| Item | Description | Who |
|------|---|------------------|
| 1 | Provide a simplified project schedule with key dates to the horse studs | James Johnson |
| 2 | Review and update wording in section 4.5 of the NBMP to include monitoring of all surface blasts. | Donna McLaughlin |
| 3 | Review all monitoring locations and consider including a location at or near the Woodlands stud. | Donna McLaughlin |
| 4 | Provide the horse studs with further information on the design of the blast monitoring equipment. | Donna McLaughlin |

| Item | Description | Who |
|------|--|------------------|
| 5 | Review all monitoring locations and consider including monitoring on land owned by Coolmore and Godolphin. | Donna McLaughlin |
| 6 | Provide further details and proposals on how Maxwell proposes to share data with the horse studs, and reaching agreement on notice, and event programming to minimize potential impacts on operations. | |
| 7 | Maxwell to advise how underground blasting was considered and assessed in the EIS. | James Johnson |
| 8 | Maxwell to capture the key points from the discussion and circulate them back to both horse studs for review and comment. | |
| 9 | Maxwell to send a request to both horse studs asking them to confirm the acceptance to participate in the CCC. | Donna McLaughlin |

Other:

JJ confirmed that Maxwell is willing to consult Coolmore and Godolphin in respect to the development of other Management Plans dealing with areas about which they have specific interest (for example but not limited to Water).

Noted:

These meeting points and any additional comments provided in the Draft NBMP would be included as part of App 4 to the Plan.

Written feedback on the Noise and Blasting Management Plan, provided by *Coolmore and Woodlands Studs on 12 May 2021.*

| # | Summary provided by Coolmore and Woodlands | Comments provided by Coolmore and Woodlands | Maxwell Response |
|---|---|---|--|
| 1 | The NBMP does not include: -Management of blasting of high walls within final voids -Rehabilitation blasting -Blasting within 500m of Thomas Mitchell Drive -Management of noise and blasting associated with the realignment of Edderton Road. (Works) The NBMP will be updated prior to undertaking such Works.) | 1. We understand that Maxwell will consult Coolmore & Godolphin if it proposes undertake any of these Works or seek a variation of the ground vibration criterion provided in Condition B11. Please confirm. | In accordance with the Maxwell Project Environmental Impact Statement (Project EIS), Maxwell may conduct blasting in the final voids (rehabilitation blasting) at the Maxwell Infrastructure site. This may involve blasting within 500 metres of Thomas Mitchell Drive. In accordance with the Project EIS, this rehabilitation blasting would be conducted in accordance with a Mining Operations Plan, Mine Closure Plan and/or a Noise and Blast Management Plan. Maxwell notes that this NBMP would be updated prior to any rehabilitation blasting at which time consultation will be undertaken in accordance with Schedule 2, Condition B12(e)(i) of Development Consent SSD 9526 (i.e. consultation with Coolmore and Woodlands). Section 1.2 has been amended to include this condition. |
| | | 2. Please provide estimates as far as they are predicted, for the timing of these Works. | Maxwell will continue to investigate beneficial uses for the voids in CL 229 and ML 1531. If, by the end of 2025, no clear resolution is reached with other mining and industrial facilities in the region, Maxwell would rehabilitate the South Void highwall and North Void low wall, unless otherwise agreed with the Resources Regulator. The North Void highwall requires decommissioning of the rail loop and CHPP and as such cannot be completed until after the 30 June 2047. The Edderton Road realignment will be undertaken prior to second workings in Arrowfield or Bowfield seams. Referring to the indicative schedule in Table 3-3 of Project EIS, ROM production from the Arrowfield Seam will commence at project Year 10. Maxwell notes that the actual timing and sequence of each activity presented in the indicative schedule may vary to take into account detailed designs, project capital phasing, current market conditions and contractor requirements. |
| | | 3 Please attach (at App 6) the evidence of Planning Secretary's approval to 'staging' of the NBMP. (Condition A24 permits the Planning Secretary to approve the staging of any plan required by the development consent). | Section 1.2 clarifies the scope of the NBMP. Maxwell understands that 'staging' of the NBMP is not required. No change required to the NBMP. |
| 2 | Noise modelling indicated that noise contributions from the site at all privately owned southern | We confirm our request for additional real time Mobile noise monitoring to the South, adjacent to | Maxwell has amended Table 10 in Section 4.2.1 to include an additional attended noise monitoring location (referred to as NM4). NM4 is considered representative of southern receiver 240d (i.e. |

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Filename: MXC_MP_EC_04

Page 56 of 69

| # | Summary provided by Coolmore and Woodlands | Comments provided by Coolmore and Woodlands | Maxwell Response |
|---|---|--|--|
| | receivers including Coolmore and Godolphin were predicted to be indistinguishable from background noise. | agreed points on/in Coolmore & Godolphin. We note that throughout the process Malabar has indicated that there will be no noise impacts on Coolmore & Godolphin. | Woodlands Stud). Site NM3 was already included and is considered representative of southern receiver 227f (i.e. Coolmore Stud). Compliance monitoring is proposed to be undertaken on a monthly basis. Noise modelling undertaken for the Project EIS indicated that noise contributions from the site at all privately-owned southern receivers including the Coolmore and Woodlands Studs and Hollydene Estate Wines, were predicted to be indistinguishable from background noise. Maxwell therefore considers that a real-time noise monitor in the south is not warranted. Maxwell notes that a real-time noise monitor is located to the north of the site where noise impacts are predicted to occur. |
| 3 | We note the concession that there are marginal exceedances of the Noise Policy for Industry (NPfI) predicted at identified northern receivers. | The NBMP concedes non-compliance with NPfI for identified northern receivers. Noted that the NBMP predicts that there will be no impacts on Coolmore and/or Godolphin. | No change required to the NBMP. |
| 4 | A low-frequency noise assessment was undertaken as part of the noise impact assessment. If monitoring results during operations are found to contain dominant low-frequency content, appropriate modifying factors will be applied to measured noise levels in accordance with Fact Sheet C of the NPfl. | Please have The NBMP indicate/specify what these 'modifying factors' are that will be applied. Please have these explained in lay terms given the complexities of Fact Sheet C in the NPfl. Noted that the DNMP predicts that there will be no impacts on Coolmore and/or Godolphin. | Section 3.2.2 has been updated to indicate what the modifying factors are and when they will be applied. |
| 5 | This section identifies the type of construction works from Year 1. Investigative modelling has indicated that daytime construction of the site access road in Year 1 would be more than 10 dB less than the predicted operational noise to the northern receivers beyond | There will be simultaneous Construction and Operational/extractive activities occurring on site, and it will not be possible for the community distinguish between equipment used for extracting processes and equipment used for construction activities. | No change required to the NBMP. |

| # | Summary provided by Coolmore and Woodlands | Comments provided by Coolmore and Woodlands | Maxwell Response |
|---|---|--|---|
| | approximately 500 to 1500 m from the northernmost end of the transport and services corridor, depending on the meteorological conditions present at the time. Construction noise would be typically masked by the operational noise. | There is no adequate assessment of worst-case scenario with regards to adverse weather impacts, Construction operational activity. Please address this. | Noise modelling was undertaken for the Project EIS for the daytime and was based on years 1, 3 and 4 of operations. Construction activities were included in the assessed operational noise scenarios for years 1 and 3. Predicted noise levels at all receivers, with and without the proposed pro-active noise management measures, for Years 1 and 3 are presented in the Maxwell Project – Submissions Report. A review of predicted noise levels at all receivers, at Years 1 and 3 (i.e. considering operational and |
| | It also concluded that construction activities associated with the covered overland conveyor in Year 3 will become evident to the receivers beyond approximately 350 to | | construction noise) with and without the proposed pro-active noise management measures indicates the implementation of the pro-active noise management measures reduces the number of predicted exceedances and reduces the magnitude of the exceedances at some receivers. |
| | 1000 m from the northernmost end of the | | No change required to the NBMP. |
| | transport and services corridor, depending on meteorological conditions. Results of the noise modelling indicated that construction noise levels will generally comply with all the noise management levels recommended in the Interim Construction Noise Guideline (Department of Environment and Climate | It is stated that Construction noise will be indistinguishable from Operational Noise. Please confirm, as it follows form Section 3.2 that there will be no Construction noise impacts on Coolmore & Godolphin (as the noise will be indistinguishable from background noise). Please confirm. | Malabar confirms that, as perceived by receivers in the vicinity of the site, noise associated with construction activities in Year 1 and 3, is predicted to be largely indistinguishable from operational mining and coal processing activities given similar plant would be deployed and construction activities would occur in areas adjacent to operational activities. Malabar confirms that noise contributions from the Project at all privately-owned southern receivers are predicted to be indistinguishable from background noise. No change required to the NBMP. |
| | Change 2009) | Please provide real time monitoring adjacent to/on Coolmore & Godolphin during Construction, as evidence/comfort. | Please refer to the response provided above for item 2. |
| 6 | The cumulative noise Impact assessment indicated that cumulative noise levels from the concurrent operations at Mount Arthur Coal and Maxwell will comply with the recommended night-time amenity criteria at all privately owned receivers. (All see also section 4.1.3, p 16). | Noted that the NBMP predicts that there will be no impacts on Coolmore and/or Godolphin. | No change required to the NBMP. |
| 7 | Table 2 sets out operational noise control measures for mobile | In our 15 March meeting [see "Key Points from Meeting notes] we requested additional | Please refer to the response provided above for item 2. |

| # | Summary provided by | Comments provided by | Maxwell Response |
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| " | Coolmore and Woodlands | Coolmore and Woodlands | пахион поэронэс |
| | plant, infrastructure, rail, and site areas. | noise monitoring sites, including consideration of same on property owned by Coolmore/Godolphin be considered, this is to include real-time monitoring in the South as well, and not just rely on attended monitoring. Once actual data is collected then the necessity for ongoing real-time measurement could be reviewed. | |
| 8 | Table 3 describes noise enhancing meteorological conditions and was determined based on historic site meteorological data. Malabar will manage noise enhancing weather conditions using a proactive noise management system involving the use of real-time monitoring and meteorological forecasting to assist with managing noise levels. Table 4 sets out management measures to be implemented to address noise enhancing meteorological conditions. | See 7 above | Noted. |
| 9 | Blasting below surface level will be limited to a maximum instantaneous charge (MIC) of less than 15 kg and would generate ground vibration of less than 0.5 mm/s at any residence on privately owned land. No construction related blasting is proposed within 500 m of a public road. (See also Section 3.5.3, p14). | In our 15 March meeting [see "Key Points from Meeting notes] we requested additional information regarding Underground blasting for mining, as we don't recall that it was identified in the EIS, the Department's Assessment Report nor in the IPC's Statement of Reasons. We look forward to hearing from you. | Maxwell notes that Section 3.4.2 of the EIS notes that blasting of material may be required during construction activities; for example, to develop the coal surge stockpile area, site access road, access to the underground workings and/or water storage dams. It also notes that the requirement for blasting would be dictated by the geotechnical properties of the material being excavated. Schedule 2, Condition B9 of Development Consent SSD 9526 states that the restrictions on blasting timing and frequency do not apply to blasts that generate less than 0.5 mm/s or less at any residence on privately-owned land. This same criterion is also applied to blasting within 500 m of public roads/private property in Condition B11. Maxwell understands that underground blasting would remain well below 0.5 mm/s at any residences on privately-owned land. Section 3.4 has been updated to include this information. |

| # | Summary provided by Coolmore and Woodlands | Comments provided by Coolmore and Woodlands | Maxwell Response |
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| 10 | Blasting for construction activities will be limited to an MIC of approximately 500 kg. | Delete word "approximately", replace with 'no greater than'. | Maxwell notes that this wording is consistent with the wording contained within the Noise Impact Assessment of the Project EIS. However, Maxwell has replaced the word 'approximately' with 'no greater than' in Section 3.5.1. |
| | | In our 15 March meeting [see "Key Points from Meeting notes] we noted that we relied on the representations that Malabar would seek to eliminate the need for Construction Blasting, so either there will be no blasting, or if unavoidable these will not be noticeable to Coolmore or Godolphin. Therefore, the starting point was no blasting with justification to be provided if that was not in Malabar's view achievable. Please advise whether this is a commitment to be made more formally? | In accordance with the Project EIS, Maxwell commits that it would seek to eliminate or minimise the need for construction blasting, with material preferentially removed through the use of dozers and excavators only. The requirement for blasting would be dictated by the geotechnical properties of the material being excavated. This has been included in Section 3.5.1. |
| 11 | This repeats the permitted hours and frequency in Conditions B7 and B8 with blasting permitted only Monday to Saturday between 9am and 5pm. | We seek that Malabar include in the NBMP a requirement that it notify Coolmore & Godolphin, and the Community Consultative Committee (CCC) and those who have registered for notification in accordance with Section 3.54 of the NBMP, where Malabar is seeking, and when it obtains, the written approval of the Planning Secretary to carry out blasting on Sundays, public holidays or any other time outside of the permitted hours. | Section 3.5.2 has been updated to include this commitment. |
| 12 | Any private landholder or occupier of any residence within 2 km of the site who registers an interest in being notified about blasting activities will be notified by telephone, email or as otherwise agreed between the parties. | We note in our 15 March meeting Malabar agreed to ensure that Coolmore and Godolphin are to receive direct notification even where they are not an occupier of a residence within 2km of the Site, and also notify the CCC. | Section 3.5.4 has been updated to included 'any private landholder or occupier of any residence'. The previous reference to a 'residence within 2km of the site' has been removed. Section 3.5.4 has been updated to provide further details regarding timing for the notification process. |

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| # | Summary provided by Coolmore and Woodlands | Comments provided by Coolmore and Woodlands | Maxwell Response |
| | Proposed blast times will be uploaded onto the Muswellbrook Shire Council Blasting announcement webpage and displayed on Malabar's website. | We note that this would include Malabar including this in the NBMP along with a requirement to provide this information within an appropriate number of days before the blasts are proposed to be carried out. | |
| 13 | Malabar will cooperate with Mount Arthur Mine to limit cumulative noise contributions from the rail loop and rail spur. | Noted. | No change required to the NBMP. |
| 14 | Table 10 sets out a summary of attended noise monitoring locations. Attended noise monitoring will be performed every quarter and conducted for day, evening, and nighttime periods to assess the site against the limits set out in the development consent and Environment Protection licence 1323. Attended noise monitoring locations will be reviewed and where necessary modified over the life of operations of the project according to monitoring results and physical changes in operations. | Table 10 refers to two locations identified as "NM2". We assume that the southern receiver site is meant to be NM3? (We note that NM3 is shown on Figure 1 as a southern receiver site.) | Typographical error in Table 10 corrected. NM2 changed to NM3. Note that the NBMP now includes monthly attended noise monitoring and an additional noise monitoring location for southern receivers (NM4). |
| 15 | Table 11 sets out what is to occur if the attended noise monitoring results identify an exceedance of | We request: portable real time monitoring in the South and | Please refer to the response provided above for item 2. |
| | the operational noise criteria. If there is a first reading fail, a second reading will be taken. If a second reading results in a fail, the acoustic consultant is to record a noise noncompliance. Malabar will then perform an environmental incident investigation to determine the cause of the noncompliance. Affected | in the event of an exceedance then operational changes are to be implemented as an immediate response to ensure compliance/no impact. | Table 11 has been updated to clarify that the supervisor will modify or cease the relevant operations causing the elevated noise levels in the event of an exceedance. |
| | | There be an investigation required and reporting of findings (including to Coolmore & Godolphin) of the investigation, results of same and actions | Table 11 has been amended to confirm that Maxwell will provide details of the exceedance to any affected landowner, tenant and the CCC in accordance with Schedule 2, Condition D5 of Development Consent SSD 9526. |
| | landowners, DPIE and the EPA will be notified. An investigation into the | arising. | Maxwell notes that an Annual Review (which includes noise and blasting results and any non-compliances) will be made publicly available on the site's website |

| # | Summary provided by Coolmore and Woodlands | Comments provided by Coolmore and Woodlands | Maxwell Response |
|----|--|---|---|
| | noise event will also be conducted. | | at https://malabarresources.com.au/sustainability/docu mentation. |
| | | | No change required to the NBMP. |
| 16 | BarnOwl real-time monitoring system will be used which carries out 24-hour directional noise monitoring records and maintains audiophiles. This section sets out a process for validating the performance of BarnOwl compared to attended monitoring. | see 7-8 above | Noted. |
| 17 | Meteorological Monitoring locations are shown as AWS-1 and AWS-2 on Figure 1. Condition B26 | Please confirm that the site of AWS 2 is representative of conditions at Coolmore & Godolphin, and include sufficient information in the NBMP to show this, and to provide evidence of compliance with the requirements of B26. We confirm that both Coolmore and Godolphin are happy to consider housing AWS on their sites. | Maxwell considers that AWS-2 is representative of conditions to the south of the site. Maxwell notes that there is no requirement for AWS-2 to be representative of all privately owned receivers to the south of the site. Condition B26 requires that there is a suitable meteorological station operating in the vicinity of the site that: • Companies with eth requirements in the Approved Methods for Sampling and Analysis of Air Pollutants in New South Wales (Department of Environment and Conservation 2007); and • Is capable of measuring meteorological conditions in accordance with the NSW Noise Policy for Industry (EPA, 2017), unless a suitable alternative is approved by the Planning Secretary following consultation with the EPA. Section 4.3 has been updated to note the AWS-1 and AWS-2 comply with the requirements in the Approved Methods for Sampling and Analysis of Air Pollutants in New South Wales (Department of Environment and Conservation 2007) and are capable of measuring meteorological conditions in accordance with the NSW Noise Policy for Industry (EPA, 2017). |
| 18 | This reflects the criteria in Table 2 in Condition B5. | As discussed in the 15 April meeting, the starting point for Coolmore and Godolphin is not about exceedances of the Consent or other regulatory criteria, but rather the parties working together to ensure and monitor so as to achieve the stated aim of 'no | Maxwell does not support the need for more stringent blasting criteria. A justification is provided below. Wilkinson Murray (2019) undertook a comprehensive assessment of construction blasting as part of the Maxwell Project – Noise Impact Assessment (Appendix I to the Maxwell Project Environmental Impact Statement). Wilkinson Murray (2019) predicted that vibration and overpressure associated with potential construction blasts for the Project would not be noticeable at the Studs. |

| # | Summary provided by Coolmore and Woodlands | Comments provided by Coolmore and Woodlands | Maxwell Re | esponse | | | |
|---|--|---|---|---|---|--|--|
| | | impact' on Coolmore and Godolphin sites. Please advise whether more stringent criteria may be required in the NBMP, to meet the representation of no noise impacts at Coolmore and Godolphin sites. | Airblast overpressure and ground vibration levels associated with blasting are a function of the distance from the blast and the MIC of explosive used in the blast. Predictive curves for overpressure and ground vibration levels have been derived from measurements conducted at numerous sites, at distances varying between 2 and 7 km from a blast. Data has been used from over 7,600 records of blasts undertaken in the Hunter Valley to derive relationships between scaled distance and overpressure or vibration (Wilkinson Murray, 2019) The predicted blasting effects of the Project are provided in the table below, together with a comparison to other approved mines currently operating in the vicinity of the Studs. | | | | |
| | | | | | proved and Predicte | | |
| | | | Operation | Proximity to the Studs* | Maximum MIC | Overpressure at the Studs^ | Vibration at the Studs^ |
| | | | Operations North Mt Arthur Coal Mine | 4.5 km | 3,575 to 6,030 kg | 113.0 – 113.8 dBL | 2.1 to 3.0 mm/s |
| | | | (North) Mt Arthur Coal Mine | 10 km | 1,681 kg | 111.1 dBL | 0.4 mm/s |
| | | | (South) Maxwell Project | 6 km 4.5 km | 500 kg | 111.5 dBL 111.3 dBL | 0.8 mm/s 0.5 mm/s |
| | | | (Mine Entry Area) Human annoyance | 4.5 km | N/A | 115 dB (95%ile) | 5 mm/s (95%ile) |
| | | | eriteria * Based on closest proximit Refer Figure 1. ^ Assumes maximum MIC u Source: Enclosure 1 (Wilkin | ty of blasting area (e.g. our state of blasting area (e.g. our state of blast being und | open cut extent or const | | |
| | | | Maxwell not from its Goo "Blasting no potentially in are different storm event changes and themselves, Panel querimining oper told that this operations a Maxwell dev | lolphin Loc ise and lov mpact on to to thunde is, where the d behave a rather tha ed whether tations had is had not b are further | cality Tours w frequency he horses of a coordingly an an unexp r Mt Arthur I resulted ir een a prob | state the for y vibrations - blasting valing association can sense value to prepare pected blast or other examples and any issue blem because | Illowing: s will vibrations ated with weather et. The kisting s and was se those |
| | | | The majority and transpo construction boundary fe of the Hunte Further, the construction MIC used fo Coal and Hupits. | rt and serven blasting nonces of the er Valley O MIC of blace is signification operation. | rices corrided nay occur, as Studs that perations Nates that manning less that and blasting | or, where are further in the existing the total to the existing the total the existing the exist | from the ing extent cut pit. red for proved |
| | | | Accordingly and vibration blasting at the | n associate | ed with pot | ential cons | truction |

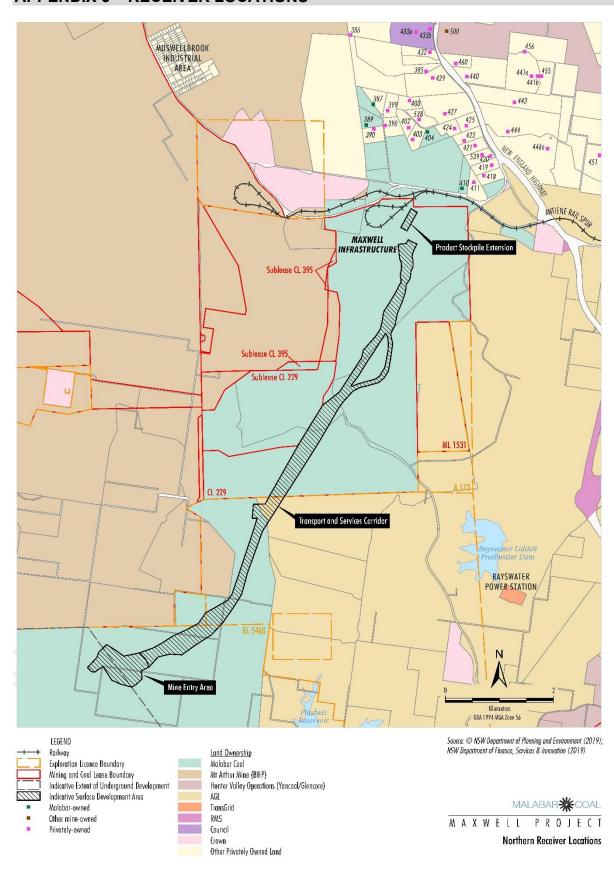
| # | Summary provided by Coolmore and Woodlands | Comments provided by Coolmore and Woodlands | Maxwell Response |
|----|---|--|--|
| | | | overpressure and vibration that Maxwell understands would have occurred as a result of open cut mining activities at the Mt Arthur Coal and Hunter Valley Operations North open cut pits. The observation that blasting at Mt Arthur Coal Mine and other existing mining operations has not resulted in blasting impacts supports the findings of the Maxwell Project Environmental Impact Statement, which stated that "vibration and overpressure associated with potential construction blasts for the Project would not be noticeable at the Coolmore and Godolphin Woodlands Studs". No change required to the NBMP. |
| 19 | Currently no blast monitors are installed on the Site. Temporary blast monitors will be set up in locations set out in Table 13 and shown on Figure 1 if construction blasting is carried out. BM2 is a blast monitoring location to the south east of the site and identified in Table 13 as being the Coolmore horse stud. | See meeting notes. Noted that you have agreed that Malabar is to include blast monitoring, and additional site adjacent to or on Coolmore & Godolphin in the NBMP even if not directed by the Planning Secretary. | Maxwell have agreed to install temporary blast monitors on or adjacent to both the Coolmore and Godolphin properties. This has been included in Section 4.5. Blast monitoring locations BM4 and BM5 will be determined in consultation with Coolmore and Woodlands Studs. |
| 20 | Malabar will make reasonable endeavours to coordinate timing of blasting activities with nearby mines including Mount Arthur. This will involve reviewing the blast schedule of surrounding mines and timing blasts to avoid blasts at surrounding mines where practical. This section refers to a joint CCC with Mount Arthur and that the results of any investigation of noise complaints will be presented to the joint CCC. | Please provide in the NBMP that the results are to be presented to the Maxwell Mine CCC. | Section 4.6 has been updated to state that any exceedances of noise criteria specific to the rail spur will also be presented at the site CCC meeting. |
| 21 | This section refers to the obligations imposed on Malabar in Conditions E4 and Condition E5(f). Malabar also states that the conditions require reactive management to an exceedance and that it proposes proactive management as described in section 0. | It is not clear precisely what is the proactive management that is referred to here. Could this please be expanded upon in the NBMP. The reference to 'Section 0' is an error, please provide the correct reference to precisely identify the sections of the | Section 4.8 has been amended to clarify that pro- active noise management is described in Section 3.3.3 and involves the use of real-time monitoring and meteorological forecasting to assist with managing noise levels. |

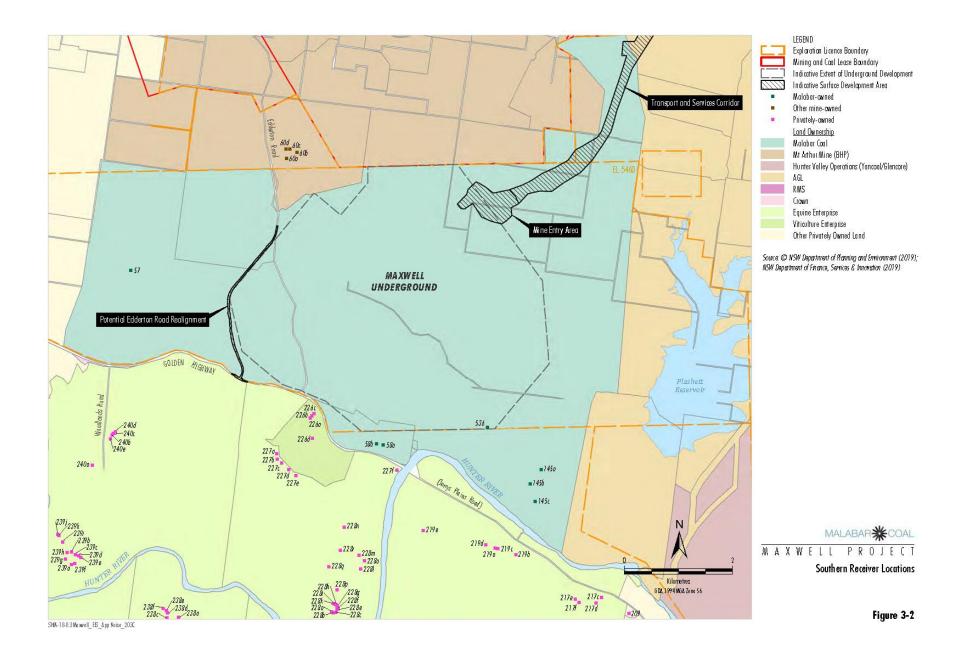
Owner: HSEC

| # | Summary provided by | Comments provided by | Maxwell Response |
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| | Coolmore and Woodlands | Coolmore and Woodlands | |
| | | NBMP that identify and describe the proactive management proposed. | |
| 22 | Malabar summarises its complaints handling procedure, including the right for an owner to request a review. | For preciseness please include the reference to these requirements in the NBMP. Note: There is no reference to Condition E17 in Appendix 1 of the NBMP and the only reference to Condition E17 is in relation to publishing the Annual Review on Malabar's website (see section 5.2, pp 22-23). | The reference to Schedule 2 Condition B12(e)(iv) and Condition E5(h)(ii) of Development Consent SSD 9526, which require a complaints protocol, has been included in Section 4.9. Condition E17 has been added to Appendix 1. Actions to meet Condition E17 are include in Section 5.2. |
| 23 | The suitability of the DNBMP will be reviewed in accordance with Condition E7. | Please refence E11 in the Appendix 1 "Regulatory Requirements". | Condition E11 is now included in Appendix 1. |
| 24 | This section refers to Malabar's obligations under Conditions E11, E12 and E17(a). In relation to the availability of the Annual Review Report Malabar has also committed to making a copy available to the CCC and any interested person upon request. | Please add a commitment in the NBMP to provide a copy to the CCC directly, without a request needing to be made by the CCC, on each occasion that the Annual Review Report is available. | Section 5.2 has been updated to clarify that a copy of the Annual Review shall be submitted to Muswellbrook Shire Council and the CCC. |
| 25 | All noise and blasting data will be maintained in accordance with the Environmental Management Strategy and contained on the premises for a period of at least four years. | The Environmental Planning and Assessment Act 1979, Section 9.42(3) requires that monitoring records are required to be held for 5 years. Should this be reflected here, rather than 4 years? | Section 5.5 has been updated to state that all noise and blasting data will be maintained in accordance with the Environmental Management Strategy and maintained on the premise for a period of at least five years. |
| 26 | Noise and blast management training will be provided to all employees and contractors through the site induction process and will take place before the commencement of work by any contractor or subcontractor who's work may create intrusive noise as part of their work. | Please: Include a commitment to provide refresher training and not just a one-off induction training. Include provision for additional refresher training where there have been non-compliances with noise criteria and blasting criteria or other noise or | Section 6.2 has been updated to include refresher training in noise and blast management to be undertaken as required and in response to noise and blast complaints, incidents or non-compliances. |

| # | Summary provided by Coolmore and Woodlands | Comments provided by Coolmore and Woodlands | Maxwell Response |
|----|---|--|--|
| | | blasting related incidents. | |
| 27 | Identifies the relevant Conditions of the development consent and other approvals that relate to noise and blast management and refers to where those conditions are addressed in the NBMP. | Condition E11 (Annual Review) is addressed in Section 5.2, pp 22-23 of NBMP but not identified in Appendix 1. | Condition E11 is now included in Appendix 1. |
| | | Conditions E12 (make available the Annual Review) and E16 (Access to Information) are not referred to in Appendix 1 and should also be addressed in the body of the NBMP. | Condition E12 and Condition E17 have been added to section 5.2 and referenced in Appendix 1. |
| | | Please include and address these conditions. | |
| 28 | | The following conditions have not been referred to or addressed in the NBMP but should be: | Condition C2 has been included in Appendix 1 and addressed in Section 4 of the NBMP. |
| | | -Condition C2: the requirement that measurement and monitoring of compliance with performance measures and performance indicators in the development consent are to be undertaken using generally accepted methods and those methods are to be fully described in the relevant management plans. | |
| | | Please address these conditions in the NBMP. | |

APPENDIX 5 - RECEIVER LOCATIONS





APPENDIX 6 - REGULATORY APPROVAL



Mrs Donna McLaughlin HSEC Manager Maxwell Ventures (Management) PTY LTD Thomas Mitchell Drive Muswellbrook New South Wales 2333

14/09/2021

Dear Mrs McLaughlin

Maxwell Underground - (SSD-9526) Noise and Blasting Management Plan

Thank you for submitting the revised Noise and Blasting Management Plan as required under condition B12 of schedule 2 of the consent for the Maxwell Underground (SSD-9528-PA-33).

The Department has carefully reviewed the document and is satisfied that it generally meets the requirements of the condition.

Accordingly, the Secretary has approved the revised Noise and Blasting Management Plan (Revision 1, dated August 2021). Please ensure that the approved plan is placed on the project website at the earliest convenience.

If you wish to discuss the matter further, please contact Charissa Pillay on 02 99955944.

Yours sincerely

Jessie Evans

n/a

Resource Assessments (Coal & Quarries)

As nominee of the Secretary

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