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WHC_PLN_SUN_NOISE MANAGEMENT PLAN

SUNNYSIDE COAL MINE NOISE MANAGEMENT PLAN



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WHC_PLN_SUN_NOISE MANAGEMENT PLAN

Contents

1 INTRODUCTION	4
2 NOISE CRITERIA	7
3 NOISE CONTROLS AND MANAGEMENT MEASURES	7
3.1 Hours of Operation	7
3.2 Noise Management and Mitigation	7
3.3 Additional Mitigation Measures	9
4 MONITORING AND REPORTING	10
4.1 Monitoring Program	10
4.2 Monitoring Locations	10
4.3 Reporting	12
4.3.1 Noise Incidents	12
4.3.2 General	12
5 DOCUMENT REVIEW	12
Tables	
Table 1 - Noise Criteria	7
Table 2 - Operational Controls	
Table 3 - Noise Monitoring Locations	10
Figures	
Figure 1 – Regional Location	5
Figure 2 – Project Layout	6
Figure 3 - Noise Monitoring Locations	11



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WHC_PLN_SUN_NOISE MANAGEMENT PLAN

ACRONYMS USED THROUGHOUT THIS DOCUMENT

AS - Australian Standard

BOM - Bureau of Meteorology

EPA - Environment Protection Authority

NMP - Noise Management Plan

NMPL - Namoi Mining Pty Ltd

PA - Project Approval



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WHC_PLN_SUN_NOISE MANAGEMENT PLAN

1 <u>INTRODUCTION</u>

This Noise Management Plan (NMP) has been prepared in accordance with Schedule 3, Condition 9A of Project Approval (PA) 06_0308 for the Sunnyside Coal Project (Sunnyside). Sunnyside is operated by Namoi Mining Pty Ltd (NMPL), a subsidiary company of Whitehaven Coal Limited. Mining operations at Sunnyside were suspended in late November 2012 and recommenced in late 2017. This document considers the area of land corresponding to the project site boundary for Sunnyside, referred to as the "mine site".

As illustrated in Figure 1, Sunnyside is located approximately 15km west of Gunnedah. The project layout is shown in Figure 2.

Sunnyside Mine ceased coal extraction in mid-2019, crushing and transporting of coal to Gunnedah Coal Handling and Processing Plant (CHPP) ceased on the 27th October 2019. Site activity is limited to day time operations which consists of bulk earthworks and rehabilitation activities. Site is serviced by a crew of approximately 10 operators and maintenance personal. Earthworks are scheduled to conclude by end September 2020.



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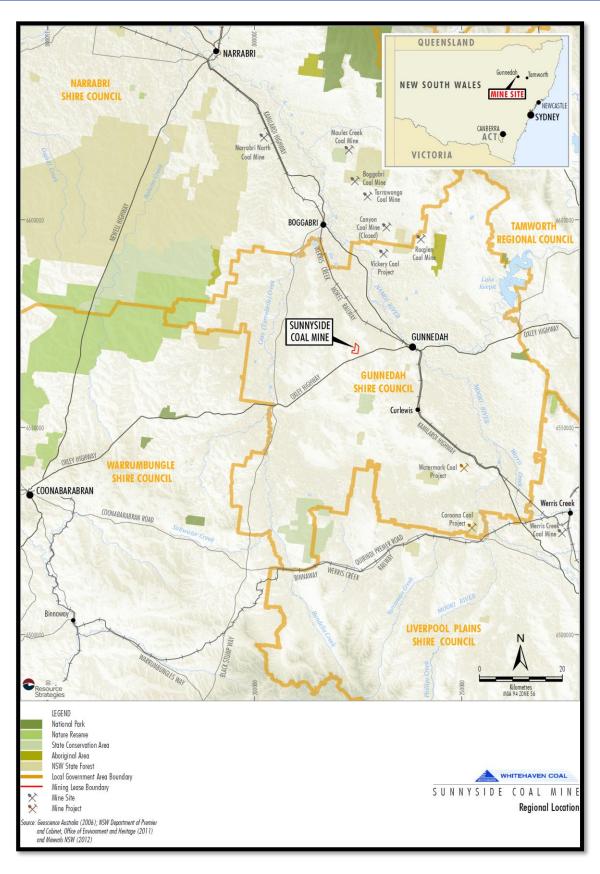


Figure 1 - Regional Location



Document Owner:	Operations Supt
Last Revision Date:	19/08/2020
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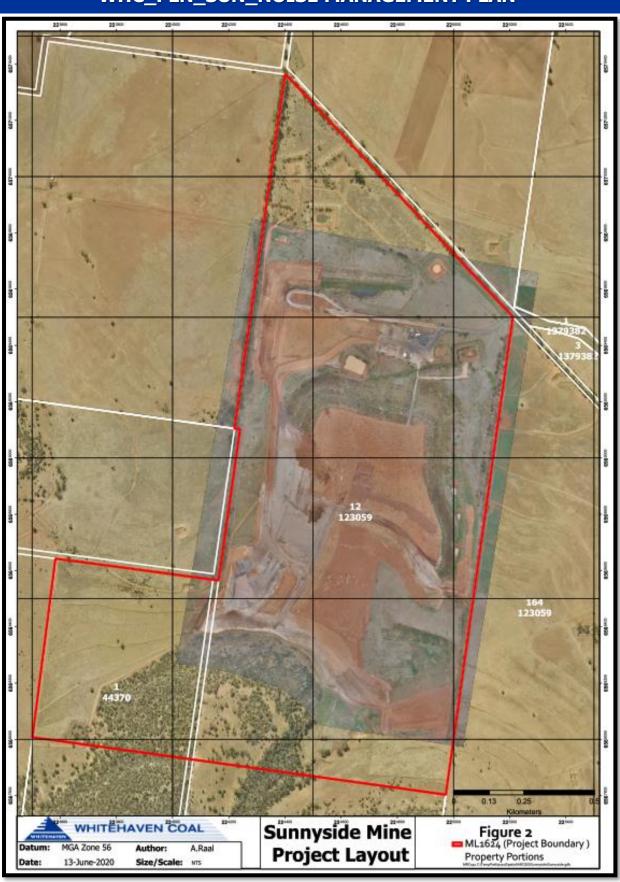


Figure 2 – Project Layout



Document Owner:	Operations Supt
Last Revision Date:	19/08/2020
Date Printed:	26/08/2020

WHC_PLN_SUN_NOISE MANAGEMENT PLAN

2 NOISE CRITERIA

The noise criteria, as per Schedule 3, Conditions 2, 3, 4 and 6 of PA 06_0308, is detailed in Table 1, which should be read in conjunction with the full conditions in PA 06_0308.

Table 1 - Noise Criteria

	Day/Evening			
Location	Construction Noise	Operational Noise	Land Acquisition	Traffic Noise
	L _{A10(15 minute)}	L _{Aeq(15 minute)}	L _{Aeq(15 minute)}	L _{Aeq(1 hour)}
Any residence on, or more than 25% of, any privately owned land (except at "Lilydale")	40	35	40	
Any residence adjacent to Torrens Road				55

These criteria do not apply if there is a written agreement with the landholder of any affected land, and a copy of the agreement has been provided to DP&E and EPA. Further, "Lilydale" is now mine owned.

3 NOISE CONTROLS AND MANAGEMENT MEASURES

Schedule 3, Conditions 8 and 9 of PA 06_0308 are addressed as follows:

- Condition 8(a) Section 3.2
- Condition 8(b) Section 3.3
- Condition 8(c) Section 4.3.2
- Conditions 9(a) to (d) Secretary acceptance of Annual Review which describes undertakings for the reporting period.

3.1 Hours of Operation

Operations are restricted to the following hours, which prevent noise impacts during the night time period:

 Mining Operations – 7am to 10pm each Monday to Friday and 7am to 6pm on Saturdays, and not on Public Holidays.

The Sunnyside project has transitioned from mining to closure activities which are only taking place during the hours of 7am to 6pm Monday to Friday. All coal transport has ceased.

3.2 Noise Management and Mitigation

Table 2 includes the management actions listed in the Statement of Commitments in relation to noise. These actions, in addition to monitoring (Section 4), reporting (Section 4) and



Document Owner:	Operations Supt
Last Revision Date:	19/08/2020
Date Printed:	26/08/2020

WHC_PLN_SUN_NOISE MANAGEMENT PLAN

implementation of additional mitigation measures (Section 3.3), constitute the noise management system for the site.

Table 2 - Operational Controls			
Statement of Commitments	Current Status		
Seal the re-aligned Coocooboonah Lane and all other upgraded road sections.	Complete.		
Regularly maintain all roads comprising	Ongoing, coal transport has ceased.		
the proposed coal transport route under a contribution plan with Gunnedah			
Shire Council.	Mat applicable		
Avoid all noisy activities occurring concurrently during construction	Not applicable.		
particularly before 9:00am when affects of local inversions may be noticeable.			
Construct the out of pit overburden	Complete.		
emplacement to provide an acoustic barrier between the open cut and Non-			
Project related residences.			
Construct the amenity bund around the coal processing area to act as an acoustic barrier.	In process of being removed as part of rehabilitation.		
Adhere strictly to hours of operation,	Where relevant to current closure activities, noting section		
including transport activities, enforced by Mine Management.	3.1		
Use equipment with lower sound power	Ongoing		
levels in preference to more noisy equipment.			
Regularly service all equipment used	Ongoing		
on site to ensure sound power levels remain at or below the levels used in			
the modelling to assess generated noise levels and compliance with the			
criteria.			
Ensure that bulldozers either operate in first gear when reversing on the out-of-	Ongoing		
pit emplacement (and demonstrating			
compliance with noise criteria) or suspend operations (when compliance			
is not achieved with noise criteria).			
Manage scraper operations to avoid operations during inversion conditions	NA - Scrapers not used on site.		
and to reduce the number of scrapers			
operating from two to one when noise monitoring demonstrates the			
L _{Aeq(15minute)} criteria of 35dB (A) is or will			
be exceeded. Confine operations to lower levels of in-	Not Applicable, Void being backfilled (Completed by end of		
pit overburden emplacement to mitigate	September 2020).		
noise exceedances under adverse wind conditions, i.e. avoid operations on			
elevated section of the overburden			
emplacements during inversions and SSW winds.			
Fit mid frequency broadband reversing	Ongoing		
beepers to mobile mining equipment, decreasing sound power levels by			
2dB(A) to 3dB(A). Ensure the on-site road network is well	Ongoing		
maintained to limit body noise from	Ongoing		



Document Owner: Operations Supt

Last Revision Date: 19/08/2020

Date Printed: 26/08/2020

WHC_PLN_SUN_NOISE MANAGEMENT PLAN

empty trucks travelling on internal	
roads.	
Maintain dialogue with neighbours and local community to ensure any concerns over construction, operational or transport noise are addressed.	Ongoing
Establish a noise monitoring program, in consultation with the EPA, prior to the commencement of the Project, designed to initially validate the predictions arising from the modelling and then record noise levels against the Project noise criteria.	EPA Armidale office have recommended that regular noise monitoring is no longer required due to closure of coaling operations, reduced equipment on site, and reduced operational hours. Monitoring will be undertaken as requested on an as needs basis.
Document all proposed noise management strategies formally in a Noise Management Plan.	This document.
Monitor construction noise near "Lilydale" when the realignment of Coocooboonah Land is being undertaken.	Not applicable.
Conduct operational noise monitoring monthly for the first six months of mining operations, reverting to quarterly for the remainder of the year.	As operations are in full closure with only rehabilitation activities being undertaken on reduced hours, quarterly monitoring has ceased
Instruct all truck drivers to avoid the use of engine brakes when approaching the Project Site entrance and coal transport route intersections and to be mindful when accelerating.	No Longer applicable.
Adhere strictly to approved hours of coal transportation.	No Longer applicable.

3.3 Additional Mitigation Measures

If noise levels from the mine exceed the levels outlined in Section 2, advice will be sought from the acoustic consultant to verify the source of the elevated noise and identify options to address noise related impacts. Such actions may include:

- Additional testing to confirm the elevated noise is systemic in nature;
- · Changes to operational procedure or equipment type; and
- The installation of sound attenuation measures to plant and equipment, where necessary.

Where it is identified that the above options cannot achieve compliance with noise criteria, NMPL will undertake negotiations with the affected landowners with a view to entering into private agreements.

Schedule 3, Conditions 4, 5 and 7 of PA 06_0308 outline landholder's rights in relation to land acquisition and additional noise mitigation measures.

Schedule 4 of PA 06 0308 details notification and independent review requirements.



Document Owner:	Operations Supt
Last Revision Date:	19/08/2020
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WHC_PLN_SUN_NOISE MANAGEMENT PLAN

4 MONITORING AND REPORTING

4.1 Monitoring Program

Attended noise monitoring will be undertaken on an as needs basis by an independent acoustic consultant. All attended noise monitoring will be conducted in accordance with the NSW Industrial Noise Policy, AS 1055.1-1997 'Acoustics – Description and Measurement of environmental noise – General Procedures', and will expressly monitor the modification factors referred to in the NSW Industrial Noise Policy.

The following notes from Schedule 3, Condition 3 must be considered:

Notes:

- To determine compliance with the Laeq(15 minute) limit, noise from the project is to be measured at the most affected point within the residential boundary, or at the most affected point within 30 metres of a dwelling (rural situations) where the dwelling is more than 30 metres from the boundary. Where it can be demonstrated that direct measurement of noise from the project is impractical, the EPA may accept alternative means of determining compliance (see Chapter 11 of the NSW Industrial Noise Policy). The modification factors in Section 4 of the NSW Industrial Noise Policy shall also be applied to the measured noise levels where applicable.
- These limits apply under meteorological conditions of:
 - o wind speeds of 3 m/s at 10 metres above ground level; or
 - o up to 3-C/100 m temperature inversion strength for all receivers, plus a 2 m/s source-to-receiver component drainage flow wind at 10 metres above ground level for those receivers where applicable.

Based on previous experience at the site when operational, the monitoring program is considered adequate to evaluate and report on the effectiveness of the noise management system, compliance against noise criteria and compliance against noise operating conditions.

4.2 Monitoring Locations

Monitoring will be undertaken in accordance with Schedule 3, Condition 3 notes in PA 06_0308.

Monitoring will be conducted at the properties listed in Table 3 and shown in



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WHC_PLN_SUN_NOISE MANAGEMENT PLAN

Figure 3 on request by regulator, community concern or suspected high noise activities. For monitoring purposes the locations presented in Table 3 are used to determine compliance as representative locations of receiver impact and irrespective of land ownership.

Table 3 - Noise Monitoring Locations

Property		
Illili		
Ferndale		
Woodlawn		
Glendower		
Innisvale		



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WHC_PLN_SUN_NOISE MANAGEMENT PLAN

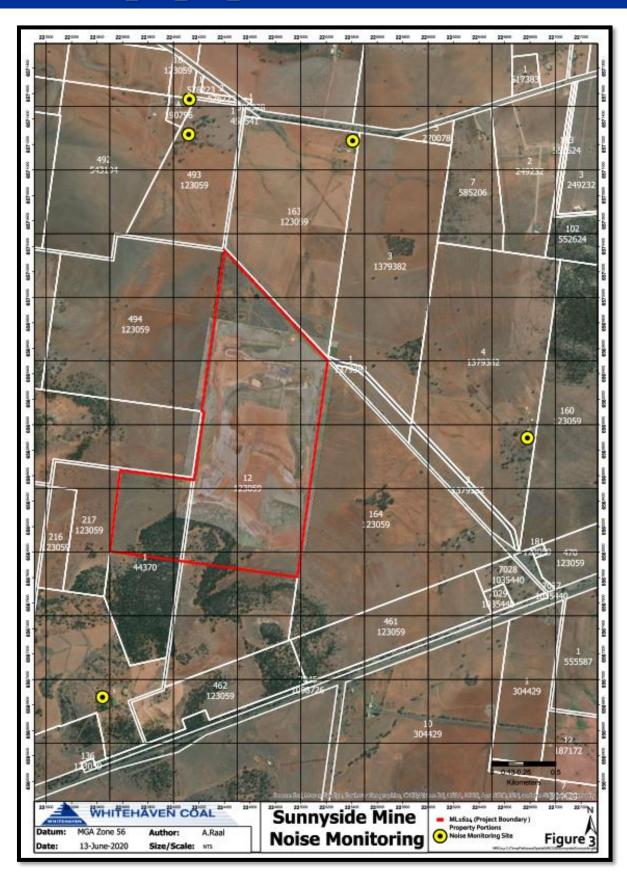


Figure 3 - Noise Monitoring Locations



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WHC_PLN_SUN_NOISE MANAGEMENT PLAN

4.3 Reporting

4.3.1 Noise Incidents

A noise incident is considered to be an exceedance of the criteria listed in Table 1, as measured by attended noise monitoring.

Incident reporting will be undertaken in accordance with Conditions 5(3) and 5(4) of PA 06_0308.

4.3.2 General

A review of noise management and monitoring will be included in the Annual Review, in accordance with the requirements of Condition 5(5) of PA 06_0308.

5 **DOCUMENT REVIEW**

This document will be reviewed in accordance with the requirements of Condition 5(5A) of PA 06 0308.