



Springvale Coal Pty Limited

Western Coal Services

Noise Management Plan

November 2025

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Document Control

REVISION DETAILS	Revision No.	Trigger	Details of change	Submission Date	Author
	0	Nil	New Document - Decoupling from the Regional Management Plans	November 2025	V. Howat & M. Denley Centennial

1 INTRODUCTION

Western Coal Services (WCS) is located northeast of the townships of Wallerawang and Lidsdale along the Castlereagh Highway. The operation is bordered by the Blackmans Flat Village to the east, Ben Bullen State Forest and National Park and Wildlife Services (NPWS) Garden of Stone State Conservation Area (GoSSCA) to the south and the Mount Piper Power Station (MPPS) to the west. Operations at WCS involve transporting and processing coal produced from underground mining at Springvale Mine and Lidsdale Siding (LS). This product is stockpiled at WCS for processing in the Coal Handling Preparation Plant (CHPP) or for delivery to MPPS via the overland conveyor. Alternatively, coal processed at the CHPP is delivered to LS via the overland conveyor for despatch by train to both Port Kembla and Newcastle to export markets by ship. The regional locality of WCS is shown on **(Figure 1)**. Springvale Coal Pty Limited (Springvale Coal) is the operator of WCS.

The WCS Project was granted State Significant Development Consent (SSD) SSD-5579 on 4 April 2014. The consent was granted by the Planning Assessment Commission of New South Wales (NSW), as delegate of the then Minister of Planning and Infrastructure, under Section 89E of the NSW Environmental Planning and Assessment Act 1979 (EP&A Act) for a project life of 25 years. SSD-5579 consent will lapse on 30 June 2039.

The following represents the main components of WCS:

- Springvale Coal Services Site (SCSS)
- Kerosene Vale Stockpile Area
- Overland conveyor system
- Mount Piper Haul Road
- Wallerawang Haul Road
- Link Haul Road (not yet constructed)

1.1 SCOPE

This Noise Management Plan (NMP) has been prepared in accordance with the SSD-5579 and the requirements of Environmental Protection Licence (EPL) 21229, to manage noise impacts to sensitive receivers and the wider environment from associated mining related activities at WCS.

1.2 CONSULTATION

In accordance with SSD-5579 Schedule 3 Condition 9(a) this Management Plan has been developed in consultation with the Environment Protection Authority (EPA) and submitted to the Department of Planning, Housing and Infrastructure (DPHI) for approval. A consultation log can be found in **Appendix 2**.

2 APPROVALS

2.1 RELEVANT STATUTORY APPROVALS

A summary of the relevant statutory approvals in relation to this NMP is provided in **Table 1**.

Table 1: Relevant Environmental Approvals held by WCS

Reference No	Approval	Regulatory Authority
SSD-5579	Development Consent	DPHI
EPL 21229	Environment Protection Licences (EPL)	EPA

The compliance obligations have been reproduced in **Appendix 1** which details the noise conditions and requirements associated with this NMP and where these have been addressed within this Management Plan.

2.2 BASELINE DATA AND PREDICTIONS

The mitigated noise levels from the SCSS operations demonstrate that the implementation of the proposed (now implemented) mitigation measures will allow Springvale Coal to achieve compliance and resolve the historical recurring non-compliance issues in the Project. The mitigated predictions also supported Springvale Coal's proposal to restrict the current noise criteria in SSD 5579 to the SCSS operations only, and to preclude their application to the other project components, namely, the overland conveyor system, Mount Piper Haul Road, Wallerawang Haul Road and Kerosene Vale Stockpile Area.

Low frequency noise assessments show that when the mitigated noise predictions from the SCSS operations are assessed against the draft Industrial Noise Guidelines (EPA, 2015) no exceedances at any receptor are predicted for the day, evening and night periods.

Consideration of the cumulative impact of SCSS mitigated operations with the nearby MPPS operations for the day, evening and night periods showed that no cumulative impact is predicted for the SCSS operations for all periods. Additional information is provided in **Appendix 3**.

220000

230000

240000

Map Locality
Scale: 1:2,500,000

Wollemi
National
Park-Dunns
Swamp
(Ganguddy)

Site Location

Gosford

Blue
Mountains
National Park

Sydney

SUNNY CORNER STATE FOREST

GARDENS OF STONE NATIONAL PARK

WOLGAN STATE FOREST

WOLLEMI NATIONAL PARK

BEN BULLEN STATE FOREST

WESTERN COAL SERVICES SURFACE SITE

GARDENS OF STONE STATE CONSERVATION AREA

LIDSDALE

NEWNES STATE FOREST

FALNASH STATE FOREST

MARRANGAROO

LIDSDALE STATE FOREST

MARRANGAROO NATIONAL PARK

RYDAL

LITHGOW

HARTLEY

Legend

-  National Park
-  State Conservation Area
-  State Forest
-  SSD-5579

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Checked	V.Howat
Approved	M.Denley
Scale	1:150,000 @ A4
Revision	0

**WESTERN COAL SERVICES
Regional Locality
Figure 1**



Date: 9/10/2025 Plan No. FASS10946

3 LIMITS, PERFORMANCE MEASURES AND CRITERIA

Limits, performance measures and criteria relevant to noise are stipulated in the development consent and/or EPL. These have been reproduced below.

3.1 LIMITS

The limits in Schedule 2 of SSD-5579 that are applicable to this NMP is provided in **Table 2**.

Table 2: Relevant Limits for WCS

Condition	Limit
Schedule 2 Condition 6	Coal Processing (a) 9.5 million tonnes of coal may be received at the SCSS in any calendar year, including a maximum of: • 5.5 million tonnes of ROM coal from Springvale Coal Mine; • 4.0 million tonnes of ROM coal from Angus Place Colliery; • 1.5 million tonnes of coal from sources other than Springvale Coal Mine or Angus Place Colliery, including a maximum of: - 1.5 million tonnes of coal from Lidsdale Siding Coal Loader; and - 1.0 million tonnes of ROM coal from other sources; and (b) 7 million tonnes of ROM coal may be processed at the SCSS in any calendar year.
Schedule 2 Condition 7	Coal Transport The Applicant must ensure that all product coal is transported from the SCSS by conveyor.
Schedule 2 Condition 8	Coal Transport The Applicant must ensure that not more than 6.3 million tonnes of coal is transported between the SCSS and the Lidsdale Siding Coal Loader in any calendar year.

3.2 PERFORMANCE MEASURES AND CRITERIA

There are no performance measures stipulated in SSD-5579 in relation to noise. The site-specific performance criteria and receiver locations are detailed in **Table 3**.

Table 3: Performance Criteria for WCS

Land	Day	Evening	Night	
	L _{Aeq} (15 min)	L _{Aeq} (15 min)	L _{Aeq} (15 min)	L _{A1} (1 min)
B12	40	35	35	47
B13	41	36	36	50
B14	41	35	35	55
B15	36	35	35	45
B16	35	35	36	45
B17	42	44	45	45
W1	37	37	41	45
W2	35	35	36	45
L1	42	35	35	45
L2	40	39	35	45
WR1	41	38	36	57
WR2	38	37	35	48
S3	36	36	39	45
All other privately owned residences	35	35	35	45

SSD-5579 goes on to state:

“Note: To interpret the locations referred to in Table 3 see the applicable figure in Appendix 4. Noise generated by the development is to be measured in accordance with the relevant requirements of the NSW Industrial Noise Policy. Appendix 5 sets out the meteorological conditions under which these criteria apply and the requirements for evaluating compliance with these criteria.

However, these criteria do not apply:

- *to noise generated by the operation of the overland coal conveyor, Wallerawang haul road or Mount Piper haul road; or*
- *if the Applicant has an agreement with the owner/s of the relevant residence or land to generate higher noise levels, and the Applicant has advised the Department in writing of the terms of this agreement.”*

Appendix 5 of SSD-5579 outlines the conditions under which the noise criteria are applicable:

Applicable Meteorological Conditions

1. *The noise criteria in Table 3 in Schedule 3 are to apply under all meteorological conditions except the following:*
 - (a) *average wind speed at microphone height exceeds 5 m/s;*
 - (b) *wind speeds greater than 3 m/s measured at 10 m above ground level; or*
 - (c) *temperature inversion conditions greater than 3°C/100 m.*

Determination of Meteorological Conditions

2. *Except for wind speed at microphone height, the data to be used for determining meteorological conditions must be that recorded by the meteorological station required under condition 18 of Schedule 3.*

Compliance Monitoring

3. *Attended monitoring is to be used to evaluate compliance with the relevant conditions of this consent.*
4. *This monitoring must be carried out at least 12 times in each calendar year (ie at least once in every calendar month), unless the Secretary directs otherwise.*
5. *Unless the Secretary agrees otherwise, this monitoring is to be carried out in accordance with the relevant requirements for reviewing performance set out in the NSW Industrial Noise Policy (as amended from time to time), in particular the requirements relating to:*
 - (a) *monitoring locations for the collection of representative noise data;*
 - (b) *meteorological conditions during which collection of noise data is not appropriate;*
 - (c) *equipment used to collect noise data, and conformity with Australian Standards relevant to such equipment; and*
 - (d) *modifications to noise data collected, including for the exclusion of extraneous noise and/or penalties for modifying factors apart from adjustments for duration.*

The Noise Limits from EPL 21229 align with the limits in **Table 3** above, however include the following four monitoring locations.

1. EPL Point 8 – WNM1 (B12/13)
2. EPL Point 9 – WNM2 (B14)
3. EPL Point 10 – WNM3 (B15)
4. EPL Point 11 – WNM4 (B16)

In accordance with EPL 21229:

Note: LAeq means the equivalent continuous noise level - the level equivalent to the energy average of noise levels occurring over a measurement period.

Day is defined as the period from 7am to 6pm Monday to Saturday and 8am to 6pm Sundays and Public Holidays. Evening is defined as the period of 6pm to 10pm. Night

is defined as the period from 10pm to 7am Monday to Saturday and 10pm to 8am on Sundays and Public Holidays.

L5.2 The noise emission limits identified in this licence apply under all meteorological conditions except:

- a) during rain and wind speeds (at 10m height) greater than 3m/s; and
- b) under "non-significant weather conditions".

Note: Field meteorological indicators for non-significant weather conditions are described in the NSW Industrial Noise Policy, Chapter 5 and Appendix E in relation to wind and temperature inversions.

L5.3 Notwithstanding Condition L4.1, the noise limit specified under that condition does not apply to any sensitive receiver where a noise agreement is in place between the licensee and the respective landowner(s) in relation to noise impacts and/or noise limits.

4 MANAGEMENT MEASURES

This section details the management measures that are being implemented to comply with the relevant statutory requirements, limits, or performance measures/criteria.

The following sources of noise identified in the NMP are relevant for WCS:

- Operation of mobile equipment e.g. trucks, dozers, loaders, Water Cart, Grader etc
- Coal handling and preparation e.g. conveyors, washery
- Coal transporting activities e.g. overland conveyors, trucks.

Restrictions to operating hours apply to WCS in accordance SSD-5579 Schedule 3 Conditions 4 to 6 and have been reproduced in **Table 4**.

Table 4: Restrictions to Operating Hours for WCS

Condition	Activity	Operating Hours
Schedule 3 Condition 4	Construction Hours	The Applicant may only undertake construction activities between the hours of 7am to 6pm Monday to Friday, and 8am to 1pm Saturday, with no construction activities on Sundays or public holidays, unless otherwise agreed to by the Secretary in accordance with condition 5 of Schedule 3.
Schedule 3 Condition 5	Out of Hours Construction Works	If the Applicant proposes to undertake any construction works outside the hours specified in condition 4 of Schedule 3, then the Applicant must prepare and implement an Out of Hours Work Protocol for these works to the satisfaction of the Secretary. This protocol must be prepared in consultation with the EPA and the residents who would be affected by the noise generated by these works, and be consistent with the requirements of the ICNG. The Applicant must not carry out any out of hours construction works before this protocol has been approved by the Secretary.
Schedule 3 Condition 6	Coal transportation operations on the	Truck movements restricted to the day period only prior to longwall extraction at the Angus Place Colliery.

Condition	Activity	Operating Hours
	Wallerawang haul road	Maximum of 3 trucks operating during the evening period following the commencement of longwall extraction at Angus Place Colliery. No truck movements to occur in the night period.
	Coal transportation operations on the Mount Piper haul road	Truck movements restricted to the day period only prior to longwall extraction at the Angus Place Colliery. Maximum of 8 trucks operating during the evening period following the commencement of longwall extraction at Angus Place Colliery. Maximum of 2 trucks operating during the night period. No truck movements to occur in the night period during adverse meteorological conditions.
	Kerosene Vale Coal Stockpile operations	During the day period only
	All other operational activities	24 hours a day, 7 days per week

The mitigation measures as outlined in **Table 5** are currently being implemented to minimise noise emissions to the greatest extent practicable.

Table 5: Noise Management and Mitigation Measures

Stage	Mitigation Measures	Management Measures
Operational	Key noise mitigation measures for WCS include: • Restrict dozer operations to daytime period only (Immediately). • Install low noise idlers along the CW01 and CW02 sections of the internal onsite Conveyor System (June 2018). • Install low noise idlers along the OL2 and OL3 sections of the Overland Conveyor System traversing through WCS, as required in conjunction with other noise attenuation measures to achieve compliance (June 2018). • Install noise barrier around the OL2/OL3 transfer point drive, as required in conjunction with other noise attenuation measures to achieve compliance (June 2018) • Clad the existing coal preparation plant with noise attenuating panels, as required in conjunction with other noise attenuation measures to achieve compliance (June 2019) • Upgrade modelled mobile plant used on site to meet, as a minimum, the sound power level used in the WCS Noise Model (Loader 109 dB (A-weighted) / 113 dB (linear); Dozer 108 dB (A weighted) / 117 dB (linear)), or as required in conjunction with other noise attenuation measures to achieve compliance (December 2019). • Installation of frequency modulated reversing alarms or 'quackers' on mobile plant to replace reversing alarms (complete).	• Ongoing Monitoring in accordance with Section 5. • Incident and Non-compliance Management in accordance with Section 8. • Complaints Management in accordance with Section 8.3.

Stage	Mitigation Measures	Management Measures
	Maintaining all plant and equipment to manufacturers specifications (Ongoing).	
Overland Conveyors	- Low noise idlers will continue to be implemented on the identified reasonable and feasible OL1 and OL2 sections of the overland conveyor system (2018). - Regular and systematic maintenance of the entire overland conveyor system will continue to be undertaken to identify and replace or repair noisy idlers as necessary, including: - Daily overland conveyor system inspections - Identified noisy rollers are replaced weekly	- Ongoing Monitoring in accordance with Section 5. - Incident and Non-compliance Management in accordance with Section 8. - Complaints Management in accordance with Section 8.3.
Future CPP Construction	The approved 5 Mtpa Coal Preparation Plant, should it be constructed in the future, will be designed and constructed to meet the mitigated sound power levels included in the noise modelling in Global Acoustics (2017).	Construction currently not planned.
Haul Road Activities	- Haul trucks will only be operated during the day period through Angus Place Colliery's development stage when the mine recommences operations under current project approval, and will be constrained to a maximum of 12 trucks operating at any one time. - Haul trucks on the Mount Piper and Wallerawang Haul Roads will be installed with facilities to monitor and track truck speeds.	Haul roads are currently not in use/ or not planned for use in the near future.

4.1 CONSTRUCTION ACTIVITIES

There are three specific construction activities approved for WCS under SSD-5579, including:

- Construct processing infrastructure including additional conveyors and transfer points and other coal handling requirements to cater for the upgraded Washery facility within the existing disturbance footprint of WCS.
- Construct a private Link Haul Road linking WCS with the existing private haul road from Angus Place Colliery to MPPS;
- Extend and enlarge an existing reject emplacement area at WCS to enable sufficient reject disposal capacity for a 25-year life;

This NMP incorporates the Construction Noise Management Plan, as required in Schedule 3 Condition 3 of SSD-5579. With Angus Place being placed on care and maintenance, there are no immediate plans to construct the link haul road or complete the upgrades to the CHPP. As a result, this NMP covers the requirements for a Construction Noise Management Plan for the construction upgrades for the Reject Emplacement Area (REA) only. The mitigation measures in **Section 4** and the monitoring in **Section 5** includes the management and monitoring of the REA upgrades.

Should construction of the haul road or upgrade to the CHPP be undertaken, this management plan will be updated accordingly. There are no additional sources of noise specifically identified for WCS operations.

5 MONITORING

This section details the program to monitor and report on the:

- impacts and environmental performance of the development; and
- effectiveness of any management measures; measures that are being implemented to comply with the relevant statutory requirements, limits, or performance measures/criteria;

Noise monitoring is undertaken to quantify the noise impact from the operation and assess individual operations contribution and cumulative noise levels (from nearby industrial and mining sources) against regulatory requirements. The monitoring locations can be found on **Figure 2**.

5.1 ATTENDED NOISE MONITORING

Noise monitoring is undertaken quarterly. Monitoring is undertaken in each of the day, evening and night assessment periods.

Noise monitoring is undertaken by a suitably qualified acoustic consultant and in accordance with the following standards:

- NSW Industrial Noise Policy (EPA, 2017); and
- Approved Methods for Sampling and Analysis of Air Pollutants in New South Wales guideline (EPA, 2022).

5.2 METEOROLOGICAL MONITORING

A meteorological station is installed at the WCS. This meteorological station:

- a) complies with the requirements in the *Approved Methods for Sampling and Analysis of Air Pollutants in New South Wales* (EPA, 2022) guideline and the *NSW Industrial Noise Policy* (EPA, 2017); and
- b) is capable of continuous real-time measurement of atmospheric stability category determined by the sigma theta method in accordance with the *NSW Industrial Noise Policy* (EPA, 2017)

In accordance with the *Ambient Air Monitoring Guidance Note* (EPA, 2022) “Where continuous monitoring is to be undertaken, the system must be operated and maintained in a proper and efficient manner, ensuring that the availability of the monitoring system is maximised. After allowing sufficient down time for routine maintenance and calibrations, a continuous monitoring system should be able to achieve at least a 95% availability”

5.3 COMPREHENSIVE NOISE MANAGEMENT SYSTEM

As required by SSD-5579 Schedule 3, Condition 8 (b), the noise management system must use a combination of predictive meteorological forecasting and real-time noise monitoring data to guide the day-to-day planning of coal transport and processing operations, and the implementation of both proactive and reactive noise mitigation measures to ensure compliance with the relevant conditions of this consent.

5.3.1 Predictive meteorological forecasting

Springvale Coal utilises Envirosuite’s Meteorological Forecast Risk Management module which uses high-resolution weather forecast modelling and site-specific risk algorithms to enable WCS to identify the likely risk profile of air or noise events for the next few days and to enable staff to plan operational activities accordingly.

The risk forecast report is automatically generated each day for the next few days ahead and is emailed to the operational team at the beginning of every day.

The weather forecast that underpins the Forecast Risk Management module is derived from third-party data sources, however data from the WCS weather monitoring station will be used to validate the weather forecast periodically.

5.3.2 Real-Time Noise Monitoring

A real-time noise monitoring system has been trialled at SCSS, however due to the static nature of the operations, it was found that the system did not provide any benefit to the proactive management of noise from the site.

Noting that the coal transport at this time is limited to the overland conveyor system only (no transport via Haul Truck on the haul roads), Springvale Coal has instead implemented a daily inspection of the overland conveyor system as detailed in Table 5 to monitor noise. The overland conveyor system is the main noise source that may experience fluctuations from day-to-day, and these inspections allow for the identification, replacement or repair of noisy idlers as necessary.

A real time unattended noise logger is utilised during quarterly noise monitoring assist in determining the relationship between measured noise levels and estimated site contributions.

A real time noise monitor will also be installed at a residential property in response to noise complaints (if permitted by resident) or compliance concerns. This will allow Springvale Coal

to listen to live audio or to access previous audio flagged from a period of annoyance to determine the noise source.

5.4 SOUND POWER LEVEL MONITORING

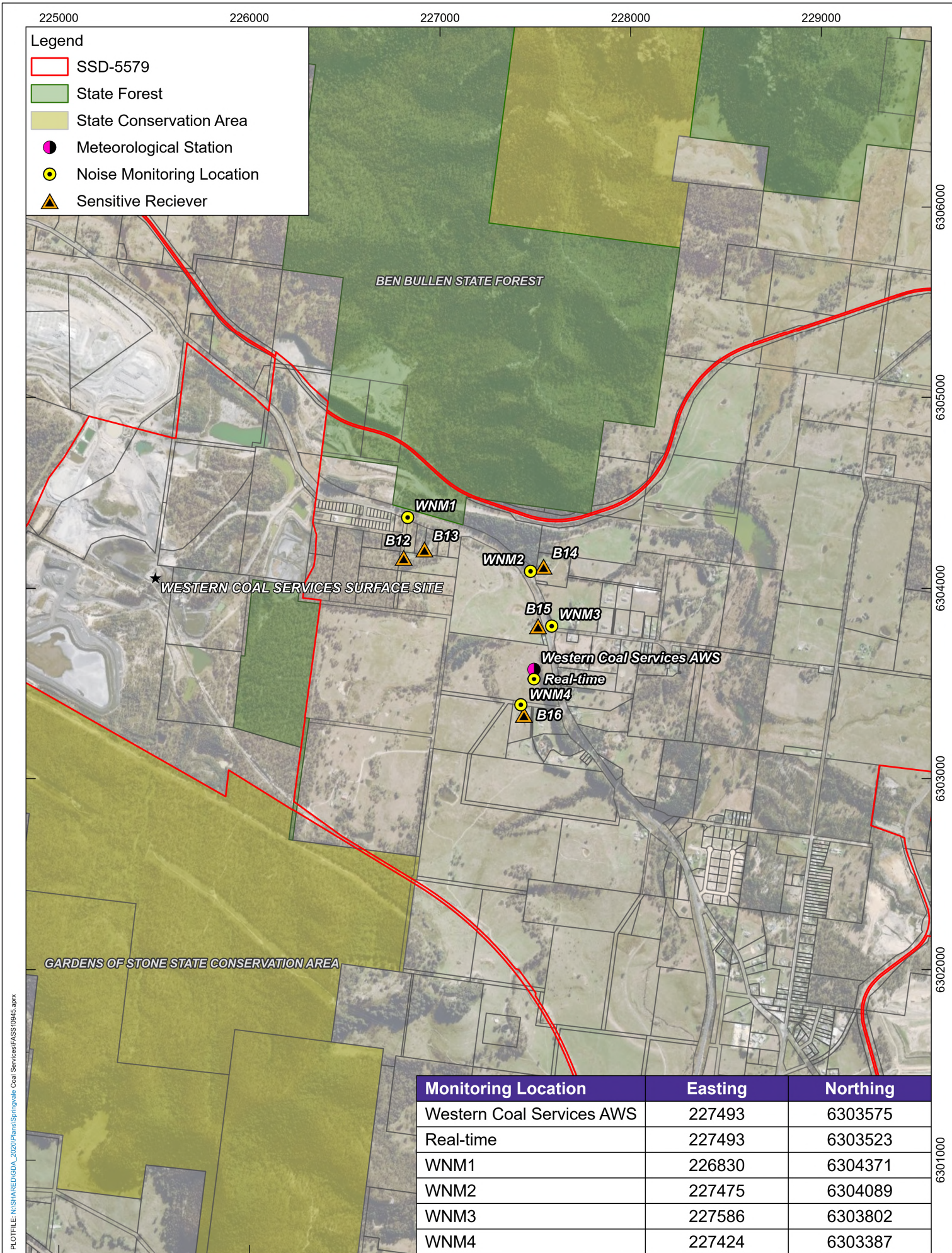
Acceptability of noise from the site, and modification of SSD-5579 was based on operational noise modelling undertaken as part of the Environmental Assessment. A key input to that modelling is sound power of plant to be operated on site.

To ensure the highest likelihood of compliance with regulatory limits, and an acceptable acoustic environment around the site, it is important that plant sound power is annually checked and, any noncompliant item is modified and/or repaired as necessary.

Items that require annual sound power level are identified in the WCS Noise Impact Assessment (Global Acoustics Pty Ltd, 2017) and include;

- Washery;
- All conveyors and associated drives;
- Transfer stations; and
- Mobile plant (loaders, dozers, reject trucks etc.).

Additional sound power testing as part of the Noise Reduction Study is detailed in **Appendix 4**. Sound Powered Levels monitored are compared against predicted levels in the NIA to identify items of compliance /non-compliance.



Monitoring Location	Easting	Northing
Western Coal Services AWS	227493	6303575
Real-time	227493	6303523
WNM1	226830	6304371
WNM2	227475	6304089
WNM3	227586	6303802
WNM4	227424	6303387

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0

500

1000

meters

N

Drawn	N.Lloyd
Checked	V.Howat
Approved	M.Denley
Scale	1:25,000 @ A4
Revision	0

WESTERN COAL SERVICES

Monitoring Locations and Sensitive

Receivers

Figure 2

CENTENNIAL

Date: 9/10/2025

Plan No. FASS10945

Maxar

Table 6: Monitoring in relation to this Noise Management Plan

Representative Noise Monitoring Location	Monitoring Location		Monitor Type	Frequency	Purpose	Received ID	Receiver Location		Noise Monitoring Criteria				Approval
	Easting	Northing					Easting	Northing	Day Laeq (15 min)	Evening Laeq (15 min)	Night Laeq (15 min)	Night La1 (1 min)	
WNM1	226830	6304371	Attended	Quarterly ¹	Compliance	B12	226809	6304166	40	35	35	47	SSD-5579 (WCS)
						B13 ²	226918	6304210	41	36	36	50	SSD-5579 (WCS)
WNM2	227475	6304089	Attended	Quarterly ¹	Compliance	B14	227543	6304120	41	35	35	55	SSD-5579 (WCS)
WNM3	227586	6303802	Attended	Quarterly ¹	Compliance	B15	227514	6303808	36	35	35	45	SSD-5579 (WCS)
WNM4	227424	6303387	Attended	Quarterly ¹	Compliance	B16	227440	6303341	35	35	36	45	SSD-5579 (WCS)
Real-time	227493	6303523	Unattended (Noise Compass)	Continuous ³	Proactive management	NA	227493	6303523	-	-	-	-	SSD-5579 (WCS)

¹ Note: In accordance with EPL 21229 Condition M7.1 Noise monitoring must also be undertaken in response to any complaint made, where monitoring is in response to a complaint, the noise monitoring need only cover the assessment period(s) for which the complaint is referring.

² This monitoring location will be represented by B12. If an exceedance occurs at B12, then assume an exceedance at B13.

³ To achieve at least a 90% availability

Representative Noise Monitoring Location	Monitoring Location		Monitor Type	Frequency	Purpose	Received ID	Receiver Location		Noise Monitoring Criteria				Approval
	Easting	Northing					Easting	Northing	Day Laeq (15 min)	Evening Laeq (15 min)	Night Laeq (15 min)	Night La1 (1 min)	
Western Coal Services AWS	227493	6302754	Unattended	Continuous ⁴	Compliance	NA	-	-	-	-	-	-	SSD-5579 (WCS)

⁴ To achieve at least a 95% availability in accordance with Ambient Air Monitoring Guidance Note (EPA, 2022)

6 PERFORMANCE INDICATORS

The specific performance indicators that are to be used to judge the performance of or guide the implementation of the NMP are detailed in **Table 7**.

Table 7: Performance Indicators

Indicator	Impacts	Performance Indicator
Limits	Incident	Compliance with noise related limits specified in Section 3.1 .
Performance Criteria	Community Impact	Number of noise related community complaints. Feedback from the CCC regarding noise.
	Incident	Compliance with the performance criteria specified in Section 3.2 . The classification of an incident is defined in Section 8.1
	Compliance	Compliance with noise related conditions and this management plan. The classification of a non-compliance is defined in Section 8.2 .

7 CONTINGENCY PLAN / TARP

The following is the contingency plan or Trigger Action Response Plan (TARP) to assist Springvale Coal in managing any unpredicted impacts and their consequences and to ensure that ongoing impacts are reduced to levels below relevant performance criteria as quickly as possible.

Table 8: Noise Management TARP

Impacts	Condition Green	Condition Orange	Condition Red
Community Impact	Trigger	Trigger	Trigger
	No Community Complaints received regarding noise. No negative feedback regarding noise from the CCC.	Community Complaint(s) received regarding noise. Negative feedback received from the CCC regarding noise. Notification from regulators of noise issues from residents.	Community Complaint(s) regarding noise from one or more residents, or notification from regulators of noise issues from residents, and investigations have determined that the site is non-compliant with Performance Criteria.
	Action	Action	Action
	No response required. Continue monitoring program.	Complete incident investigation to determine the cause of the noise and if the noise can be mitigated. Undertake monitoring in accordance with Section 5 .	Complete incident investigation to determine the cause of the noise and if the noise can be mitigated. Review effectiveness of management measures in Section 4 . Modify operations if possible. Undertake monitoring in accordance with Section 5 .
	Response	Response	Response
	Undertake reporting in accordance with Section 10 .	Record complaint and provide a response to the complainant. Undertake reporting in accordance with Section 10 .	Record complaint and provide a response to the complainant. Undertake reporting in accordance with Section 10 .
	Responsibility	Responsibility	Responsibility
	Site Environmental Representative or delegate.	Site Environmental Representative or delegate.	Site Environmental Representative or delegate.

Impacts	Condition Green	Condition Orange	Condition Red
Incident	Trigger	Trigger	Trigger
	Site is within the Limits, Performance Measures and Criteria specified in Section 3 .	Attended compliance monitoring indicates within 2 dBA above noise limits.	Site is above the Limits, Performance Measures and Criteria specified in Section 3 . <i>It is considered an exceedance if the monitored noise level is more than 2 dB above the statutory noise limit specified in the consent or licence.</i>
	Action	Action	Action
	No response required. Continue monitoring program.	Complete a TARP report (internal only). Consider a review of operations to reduce noise emissions. Review effectiveness of management measures specified in Section 4 .	Complete incident investigation to determine the cause of the exceedance. Review effectiveness of management measures specified in Section 4 . Modify operations where possible.
	Response	Response	Response
	Nil required. Undertake reporting in accordance with Section 10 .	Nil required. Undertake reporting in accordance with Section 10 .	Notify relevant government agencies (DPHI & EPA) and affected landowners in accordance with Section 8 . Review, and if necessary, revise the Noise Management Plan in accordance with the Development Consent.
	Responsibility	Responsibility	Responsibility
	Site Environmental Representative or delegate.	Site Environmental Representative or delegate.	Site Environmental Representative or delegate.

Impacts	Condition Green	Condition Orange	Condition Red
Compliance	Trigger	Trigger	Trigger
	Monitoring undertaken in accordance with Section 5 .	Failure of the weather station for less than 5% of any calendar year due to: • monitor breakdown • power failure • scheduled monitor maintenance • daily zero and span checks • performance specification testing.	Failure to undertake noise monitoring as per Section 5 (frequency or location) Or Weather station failed to achieve at least a 95% availability for any calendar year.
	Action	Action	Action
	No response required. Continue monitoring program.	Weather Station repaired, or power re-instated as soon as possible after failure. Record kept of the cause of the down-time. Complete a TARP report (internal only).	Complete incident investigation to determine the cause of the failure to monitor.
	Response	Response	Response
	Undertake reporting in accordance with Section 10 .	Downtime recorded in the Annual Review and Annual Return (if applicable).	Notify relevant government agencies (DPHI & EPA) through the Annual Reviews and Annual Return (where relevant). Downtime recorded in the Annual Return and Annual Return.
	Responsibility	Responsibility	Responsibility
	Site Environmental Representative or delegate.	Site Environmental Representative or delegate.	Site Environmental Representative or delegate.

8 INCIDENTS AND NON-COMPLIANCES

This section details the protocol for managing and reporting any:

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

8.1 INCIDENTS

An incident is defined in the development consent. In the case of the WCS an incident is defined as: A set of circumstances that:

- breaches or exceeds the limits or performance measures/criteria in the consent (**Section 3**); and/or
- causes or threatens to cause material harm to the environment.

8.1.1 Exceedances of limits, impact assessment criteria and / or performance criteria

8.1.1.1 Notification to Regulators

An exceedance of the limits, performance measures or criteria outlined in **Section 3** is categorised as an incident and is to be notified as an incident to the DPHI and the EPA as soon as practicable after becoming aware of the exceedance.

In accordance with the *NSW Industrial Noise Policy* (EPA, 2017), it is considered an exceedance of performance criteria if the monitored noise level is more than 2 dB above the statutory noise limit specified in the consent or licence.

Within 7 days of becoming aware of the incident, the Applicant must provide the Secretary and the EPA with a detailed report on the incident.

8.1.1.2 Notification to Land Owners

In accordance with Schedule 4 Condition 3 of SSD-5579, as soon as practicable after obtaining monitoring results showing an exceedance of the relevant criteria in Section 3.2 Springvale Coal must notify the affected landowners in writing of the exceedance, and provide regular monitoring results to these landowners until the development is again complying with the relevant criteria.

8.1.2 Causes or threatens to cause material harm

WCS must immediately notify the Secretary and any other relevant agencies (in the case of noise this is the EPA) of any incident that has caused, or threatens to cause, material harm to the environment.

Within 7 days of becoming aware of the incident, the Applicant must provide the Secretary and any relevant agencies with a detailed report on the incident.

While noise is considered a form of pollution, it generally does not cause or threaten to cause material harm to the environment, and is not classified as a pollution incident requiring the implementation of the Pollution Incident Response Plan in accordance with the *Guideline: Pollution Incident Response Management Plans* (EPA, 2022).

8.2 NON-COMPLIANCES

A non-compliance is defined in SSD-5579 as “An occurrence, set of circumstances or development that is a breach of this consent” and includes any other non-compliances with the development consent, the EPL or this Management Plan will be reported to the DPHI and the EPA (if relevant) via the Annual Review and the Annual Return when applicable.

Non-compliances (that are not classed as incidents) may include the following:

1. Non-compliance with any other conditions of the development consent or EPL;
2. Failure to monitor at the frequency or locations specified in this Management Plan or the EPL.

The following will be classed as non-compliances with the monitoring frequency:

1. Failure to monitor in accordance with the frequency outlined in **Section 5**;
2. Failure to monitor at any location during attended noise monitoring; or
3. The Meteorological Station Weather station failing to achieve at least a 95% availability for any calendar year.

8.3 COMPLAINTS

Noise Complaints will be managed in accordance with the Springvale Coal Services Operation Environmental Management Strategy and **Section 7** of this NMP.

If any owner of privately-owned land considers WCS to be exceeding the relevant criteria in **Section 3.2**, then the landowner may ask the Secretary of the DPHI in writing for an independent review of the impacts of the development on his/her land in accordance with Schedule 4 Condition 4 of SSD-5579.

9 INVESTIGATIONS AND IMPROVEMENT

The Plan, Do, Check, Act process will be implemented to investigate and implement ways to improve the environmental performance of the WCS.

This includes the following:

1. Plan: Review & revise the NMP if necessary in accordance with **Section 11**
2. Do: Implement the NMP and the management measures listed in **Section 4**
3. Check: Undertake monitoring in accordance with **Section 5**, Reporting in accordance with **Section 10**, and auditing in accordance with SSD-5579.
4. Act: Undertake incident and complaint investigations in accordance with **Section 7 & Section 8**

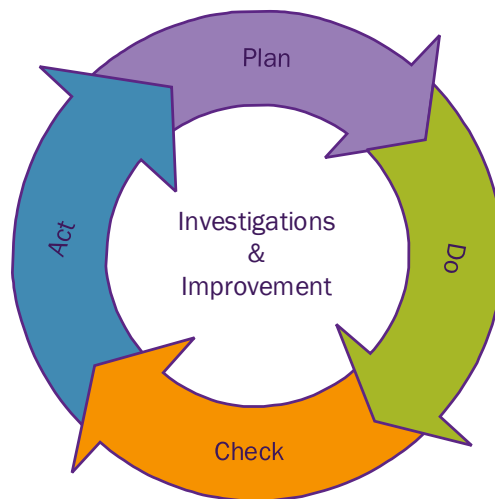


Figure 3: Investigations and Improvement Diagram

10 REPORTING

The following details the reporting completed in accordance with the WCS NMP.

10.1 ANNUAL REVIEW

An Annual Review is to be completed in accordance with SSD-5579 Schedule 5 Condition 4. The Annual Review is to detail the noise monitoring undertaken during the year and is to be made available on the Centennial Coal website in accordance with SSD-5579 Schedule 5 Condition 11.

10.2 ANNUAL RETURN

An Annual Return stating the sites compliance with the conditions of its EPL is completed and submitted to the EPA on an annual basis. This is done in accordance with the EPL conditions and by the due date as stated in the EPL.

10.3 MONTHLY WEBSITE ENVIRONMENTAL MONITORING REPORT

A monitoring report is published monthly on the website to satisfy the requirements under Section 66(6) of the Protection of the Environment Operations Act 1997 (POEO Act) to publish the results of monitoring under the EPL. SSD-5579 Schedule 5 Conditions 8 and 11 also require regular reporting of environmental performance on the website.

Noise monitoring results will be published within the monthly website report on a quarterly basis after receipt of the finalised noise monitoring report.

10.4 MONTHLY WEBSITE ENVIRONMENTAL MONITORING REPORT

A complaints register, which is updated on a monthly basis; is published monthly on the website to satisfy the requirements of SSD-5579 Schedule 5 Conditions 11(a).

10.5 COMMUNITY CONSULTATIVE COMMITTEE

Community Consultative Committees (CCC) meet on a regular basis in accordance with Schedule 5 Condition 6 of SSD-5579. The CCC is operated in accordance with the *Guidelines for Establishing and Operating Community Consultative Committees for Mining Developments* (Department of Planning, 2007), or its latest version or replacement.

11 REVIEW AND REVISION

Reviews and revisions of this Management Plan are to be instigated by the site Environment & Community representative or delegate. The Document Control table will be updated with any revisions to this Management Plan.

In accordance with the SSD-5579, within 3 months of:

- a) the submission of an incident report relating to noise;
- b) the submission of an annual review;
- c) the submission of an audit report; and
- d) the approval of any modification to the conditions of the development consent relating to noise,

this Management Plan will be reviewed. If this review leads to revisions, then within 4 weeks of the review, the revised document is to be submitted to the Secretary of DPHI for approval. Once approved, the revised NMP will be placed on the Centennial Coal Website.

Abbreviations

CHPP	Coal Handling Preparation Plant
CW	Conveyor Washery (forms part of the Overland Conveyor System)
CCC	Community Consultative Committee
dB	Decibel
DPHI	Department of Planning, Housing and Infrastructure
EIS	Environmental Impact Assessment
EPA	Environment Protection Authority
EPL	Environment Protection Licence
EP&A Act	Environmental Planning and Assessment Act 1979
EMS	Environmental Management Strategy
LS	Lidsdale Siding
MPPS	Mt Piper Power Station
Mtpa	Million Tonnes per Annum
NMP	Noise Management Plan
NIA	Noise Impact Assessment
OL	Overland Conveyor
POEO Act	Protection of the Environment Operations Act 1997
REA	Rejects Emplacement Area
SCSS	Springvale Coal Services Site
TARP	Trigger Action Response Plan
WCS	Western Coal Services Project

Glossary

dB	Decibel is the logarithmic unit used for expressing the sound pressure level (SPL) or power level (SWL) in acoustics.
dB(A)	Frequency weighting filter used to measure 'A-weighted' sound pressure levels, which conforms about to the human ear response.
L _{Aeq} (period)	Equivalent sound pressure level: the steady sound level that, over a specified period of time, would produce the same energy equivalence as the fluctuating sound level actually occurring.

LA90 (period)	The sound pressure level exceeded for 90% of the measurement period.
Day	The period from 7.00 am to 6.00 pm on Monday to Saturday, and 8.00 am to 6.00 pm on Sundays and Public Holidays
Evening	The period from 6.00 pm to 10.00 pm
Night	The period from 10pm to 7am on Monday to Saturday, and 10.00 pm to 8.00 am on Sundays and Public Holidays.

12 REFERENCES

Centennial Coal Company Limited, 2017. *Western Coal Services Project Statement of Environmental Effects*, s.l.: s.n.

Department of Planning, 2007. *Guidelines for Establishing and Operating Community Consultative Committees for Mining Developments*. s.l.:s.n.

EPA, 2017. *NSW Industry Noise Policy*, s.l.: s.n.

EPA, 2022. *Ambient Air Monitoring Guidance Note*, s.l.: s.n.

EPA, 2022. *Approved methods for the sampling and analysis of air pollutants in NSW*, s.l.: s.n.

EPA, 2022. *Guideline: Pollution Incident Response Management Plans*. s.l.:s.n.

Global Acoustics Pty Ltd, 2017. *Western Coal Services Project Noise Impact Assessment*, s.l.: s.n.

RPS, 2013. *Western Coal Services Environmental Impact Statement*, s.l.: s.n.

SLR, 2013. *Centennial Western Coal Services Project Noise and Vibration Impact Assessment*, s.l.: s.n.

13 APPENDICES

Appendix 1. Compliance Obligations

Table A1-1: Compliance Obligations related to the Noise Management Plan

Condition	Requirement	Management Plan Section				
SSD-5579						
Schedule 5 Condition 2	Management Plan Requirements The Applicant must ensure that the management plans required under this consent are prepared in accordance with any relevant guidelines, and include:					
	a) detailed baseline data;	Section 2.2 and Appendix 3				
	b) a description of: the relevant statutory requirements (including any relevant approval, licence or lease conditions);	Section 2 and Appendix 1				
	any relevant limits or performance measures/criteria;	Section 3				
	the specific performance indicators that are proposed to be used to judge the performance of, or guide the implementation of, the development or any management measures;	Section 6				
	c) a description of the measures that would be implemented to comply with the relevant statutory requirements, limits, or performance measures/criteria;	Section 4				
	d) a program to monitor and report on the: - impacts and environmental performance of the development; - effectiveness of any management measures (see c above);	Section 5 and Section 10				
	e) a contingency plan to manage any unpredicted impacts and their consequences;	Section 7				
	f) a program to investigate and implement ways to improve the environmental performance of the development over time;	Section 9				
	g) a protocol for managing and reporting any: - incidents; - complaints; - non-compliances with statutory requirements; and - exceedances of the impact assessment criteria and/or performance criteria; and	Section 8				
	h) a protocol for periodic review of the plan.	Section 11				
Schedule 3 Condition 1	Acquisition Upon Request Upon receiving a written request for acquisition from an owner of the land listed in Table 1, the Applicant must acquire the land in accordance with the procedures in conditions 5-6 of Schedule 4. <i>Table 1: Land subject to acquisition upon request</i> <table><tr><th colspan="2">Property ID</th></tr><tr><td>B4 - Blackmans Flat</td><td>Mason (east) – Wolgan Road</td></tr></table> <i>Note: To interpret the locations referred to in Table 1 see the applicable figure in Appendix 4.</i>	Property ID		B4 - Blackmans Flat	Mason (east) – Wolgan Road	No longer applicable
Property ID						
B4 - Blackmans Flat	Mason (east) – Wolgan Road					
Schedule 3 Condition 2	Additional Mitigation Upon Request Upon receiving a written request from the owner of any residence on the land listed in Table 1, the Applicant must implement additional noise mitigation measures (such as double glazing, insulation, and/or air conditioning) at the residence in consultation with the owner. These measures must be reasonable and feasible and directed towards reducing the noise impacts of the development on the residence. 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	Noted				

Condition	Requirement	Management Plan Section										
	there is a dispute about the implementation of these measures, then either party may refer the matter to the Secretary for resolution.											
Schedule 3 Condition 3	Construction Noise The Applicant must prepare and implement a Construction Noise Management Plan prepared in accordance with the EPA's Interim Construction Noise Guideline 2009 (or any relevant updated version), to the satisfaction of the Secretary. This plan must be prepared in consultation with the EPA, and be approved by the Secretary prior to commencing construction.	Section 4										
Schedule 3 Condition 4	Construction Hours The Applicant may only undertake construction activities between the hours of 7am to 6pm Monday to Friday, and 8am to 1pm Saturday, with no construction activities on Sundays or public holidays, unless otherwise agreed to by the Secretary in accordance with condition 5 of Schedule 3.	Section 4.1										
Schedule 3 Condition 5	Out of Hours Construction Works If the Applicant proposes to undertake any construction works outside the hours specified in condition 4 of Schedule 3, then the Applicant must prepare and implement an Out of Hours Work Protocol for these works to the satisfaction of the Secretary. This protocol must be prepared in consultation with the EPA and the residents who would be affected by the noise generated by these works, and be consistent with the requirements of the ICNG. The Applicant must not carry out any out of hours construction works before this protocol has been approved by the Secretary.	Section 4.1										
Schedule 3 Condition 6	Hours of Operation <i>Table 2: Operating hours</i> <table><tr><th>Activity</th><th>Operating Hours</th></tr><tr><td>Coal transportation operations on the Wallerawang haul road</td><td>Truck movements restricted to the day period only prior to longwall extraction at the Angus Place Colliery. Maximum of 3 trucks operating during the evening period following the commencement of longwall extraction at Angus Place Colliery. No truck movements to occur in the night period.</td></tr><tr><td>Coal transportation operations on the Mount Piper haul road</td><td>Truck movements restricted to the day period only prior to longwall extraction at the Angus Place Colliery. Maximum of 8 trucks operating during the evening period following the commencement of longwall extraction at Angus Place Colliery. Maximum of 2 trucks operating during the night period. No truck movements to occur in the night period during adverse meteorological conditions.</td></tr><tr><td>Kerosene Vale Coal Stockpile operations</td><td>During the day period only</td></tr><tr><td>All other operational activities</td><td>24 hours a day, 7 days per week</td></tr></table>	Activity	Operating Hours	Coal transportation operations on the Wallerawang haul road	Truck movements restricted to the day period only prior to longwall extraction at the Angus Place Colliery. Maximum of 3 trucks operating during the evening period following the commencement of longwall extraction at Angus Place Colliery. No truck movements to occur in the night period.	Coal transportation operations on the Mount Piper haul road	Truck movements restricted to the day period only prior to longwall extraction at the Angus Place Colliery. Maximum of 8 trucks operating during the evening period following the commencement of longwall extraction at Angus Place Colliery. Maximum of 2 trucks operating during the night period. No truck movements to occur in the night period during adverse meteorological conditions.	Kerosene Vale Coal Stockpile operations	During the day period only	All other operational activities	24 hours a day, 7 days per week	Section 4.1
Activity	Operating Hours											
Coal transportation operations on the Wallerawang haul road	Truck movements restricted to the day period only prior to longwall extraction at the Angus Place Colliery. Maximum of 3 trucks operating during the evening period following the commencement of longwall extraction at Angus Place Colliery. No truck movements to occur in the night period.											
Coal transportation operations on the Mount Piper haul road	Truck movements restricted to the day period only prior to longwall extraction at the Angus Place Colliery. Maximum of 8 trucks operating during the evening period following the commencement of longwall extraction at Angus Place Colliery. Maximum of 2 trucks operating during the night period. No truck movements to occur in the night period during adverse meteorological conditions.											
Kerosene Vale Coal Stockpile operations	During the day period only											
All other operational activities	24 hours a day, 7 days per week											
Schedule 3 Condition 7	Noise Criteria Except for the carrying out of construction, and for the land in Table 1, the Applicant must ensure that the noise generated by the development does not exceed the criteria in Table 3 at any residence on privately-owned land.	Section 3.2										

Condition	Requirement	Management Plan Section																																																																											
	Table 3: Noise criteria dB(A) <table><tr><th>Land</th><th>Day L_{Aeq}(15 min)</th><th>Evening L_{Aeq}(15 min)</th><th>Night L_{Aeq}(15 min)</th><th>Night L_{A1} (1 min)</th></tr><tr><td>B12</td><td>40</td><td>35</td><td>35</td><td>47</td></tr><tr><td>B13</td><td>41</td><td>36</td><td>36</td><td>50</td></tr><tr><td>B14</td><td>41</td><td>35</td><td>35</td><td>55</td></tr><tr><td>B15</td><td>36</td><td>35</td><td>35</td><td>45</td></tr><tr><td>B16</td><td>35</td><td>35</td><td>36</td><td>45</td></tr><tr><td>B17</td><td>42</td><td>44</td><td>45</td><td>45</td></tr><tr><td>W1</td><td>37</td><td>37</td><td>41</td><td>45</td></tr><tr><td>W2</td><td>35</td><td>35</td><td>36</td><td>45</td></tr><tr><td>L1</td><td>42</td><td>35</td><td>35</td><td>45</td></tr><tr><td>L2</td><td>40</td><td>39</td><td>35</td><td>45</td></tr><tr><td>WR1]</td><td>41</td><td>38</td><td>36</td><td>57</td></tr><tr><td>WR2</td><td>38</td><td>37</td><td>35</td><td>48</td></tr><tr><td>S3</td><td>36</td><td>36</td><td>39</td><td>45</td></tr><tr><td>All other privately-owned residences</td><td>35</td><td>35</td><td>35</td><td>45</td></tr></table> <i>Note: To interpret the locations referred to in Table 3 see the applicable figure in Appendix 4.</i> Noise generated by the development is to be measured in accordance with the relevant requirements of the NSW Industrial Noise Policy. Appendix 5 sets out the meteorological conditions under which these criteria apply and the requirements for evaluating compliance with these criteria. However, these criteria do not apply: - to noise generated by the operation of the overland coal conveyor, Wallerawang haul road or Mount Piper haul road; or - if the Applicant has an agreement with the owner/s of the relevant residence or land to generate higher noise levels, and the Applicant has advised the Department in writing of the terms of this agreement.	Land	Day L _{Aeq} (15 min)	Evening L _{Aeq} (15 min)	Night L _{Aeq} (15 min)	Night L _{A1} (1 min)	B12	40	35	35	47	B13	41	36	36	50	B14	41	35	35	55	B15	36	35	35	45	B16	35	35	36	45	B17	42	44	45	45	W1	37	37	41	45	W2	35	35	36	45	L1	42	35	35	45	L2	40	39	35	45	WR1]	41	38	36	57	WR2	38	37	35	48	S3	36	36	39	45	All other privately-owned residences	35	35	35	45	
Land	Day L _{Aeq} (15 min)	Evening L _{Aeq} (15 min)	Night L _{Aeq} (15 min)	Night L _{A1} (1 min)																																																																									
B12	40	35	35	47																																																																									
B13	41	36	36	50																																																																									
B14	41	35	35	55																																																																									
B15	36	35	35	45																																																																									
B16	35	35	36	45																																																																									
B17	42	44	45	45																																																																									
W1	37	37	41	45																																																																									
W2	35	35	36	45																																																																									
L1	42	35	35	45																																																																									
L2	40	39	35	45																																																																									
WR1]	41	38	36	57																																																																									
WR2	38	37	35	48																																																																									
S3	36	36	39	45																																																																									
All other privately-owned residences	35	35	35	45																																																																									
Schedule 3 Condition 8	Operating Conditions The Applicant must:	Section 4																																																																											
	(a) implement best management practice to minimise the construction, operational and road noise of the development;																																																																												
	(b) operate a comprehensive noise management system that uses a combination of predictive meteorological forecasting and real-time noise monitoring data to guide the day-to-day planning of coal transport and processing operations, and the implementation of both proactive and reactive noise mitigation measures to ensure compliance with the relevant conditions of this consent;	Section 5.3																																																																											
	(c) minimise the noise impacts of the development during meteorological conditions under which the noise limits in this consent do not apply (see Appendix 5);	Section 5 and Table 5																																																																											
	(d) co-ordinate noise management on site with the noise management of other approved developments and/or projects on or in the vicinity of the site to minimise cumulative noise impacts; and	Section 7, Section 9 and Appendix 3																																																																											
	(e) carry out regular monitoring to determine whether the development is complying with the relevant conditions of this consent, to the satisfaction of the Secretary.	Section 5																																																																											

Condition	Requirement	Management Plan Section
Schedule 3 Condition 8A	Noise Reduction Study The Applicant must prepare and implement a noise reduction study for the overland coal conveyor and SCSS to the satisfaction of the Secretary. The study must: (a) be prepared in consultation with the EPA, and be submitted to the Secretary for approval by the end of February 2018, unless otherwise agreed by the Secretary; (b) identify sensitive receptors and existing noise levels in the vicinity of the overland coal conveyor and SCSS; (c) investigate and propose reasonable and feasible measures to mitigate noise associated with the overland coal conveyor and SCSS, including but not necessarily limited to: • low noise idlers, barriers or other measures on sections of the conveyor system; and • cladding, attenuated plant or other measures at the CHPP; (d) predict changes in noise levels in the vicinity of the overland coal conveyor and SCSS associated with the proposed noise mitigation measures; and (e) provide a maintenance schedule for the overland coal conveyor to be implemented in the Noise Management Plan (see condition 9 below).	Appendix 4 - Noise Reduction Study The study was approved in a letter from DPE dated 7/9/2018 (attached in Appendix 4)
Schedule 3 Condition 9	Noise Management Plan The Applicant must prepare and implement a Noise Management Plan for the development to the satisfaction of the Secretary. This plan must:	
	(a) be prepared in consultation with the EPA, and submitted to the Secretary for approval within 4 months of the date of this consent, unless otherwise agreed by the Secretary;	Section 1.2 and Appendix 2
	(b) describe the measures that would be implemented to ensure compliance with the noise criteria and operating conditions in this consent;	Section 4
	(c) describe the proposed noise management system in detail;	Section 4 and Section 5
	(d) include a noise monitoring program that: • evaluates and reports on: - the effectiveness of the on-site noise management system; - compliance against the noise criteria in this consent; and - compliance with the noise operating conditions;	Section 5 and Section 10
	• includes a program to calibrate and validate real-time noise monitoring results with attended monitoring results over time (so the real-time noise monitoring program can be used as a better indicator of compliance with the noise criteria and as a trigger for further attended monitoring); and	Section 5
	• defines what constitutes a noise incident, and includes a protocol for identifying and notifying the Department and relevant stakeholders of any noise incidents; and	Section 7 and Section 8
	(e) detail a maintenance schedule for the overland coal conveyor.	Section 4
Schedule 4 Condition 3	Notification of Landowners / Tenants As soon as practicable after obtaining monitoring results showing: (a) an exceedance of any relevant criteria in Schedule 3, the Applicant must notify affected landowners in writing of the exceedance, and provide regular monitoring results to each affected landowner until the development is again complying with the relevant criteria; and (b) an exceedance of the relevant air quality criteria in Schedule 3, the Applicant must send a copy of the NSW Health fact sheet entitled "Mine Dust and You" (as may be updated from time to time) to the affected landowners and/or existing	Section 8.1.1 and Table 8

Condition	Requirement	Management Plan Section
	tenants of the land (including the tenants of any mine-owned land).	
Schedule 4 Condition 4	Independent Review If an owner of privately-owned land considers the development to be exceeding the criteria in Schedule 3, then he/she may ask the Secretary in writing for an independent review of the impacts of the development on his/her land. If the Secretary is satisfied that an independent review is warranted, then within 2 months of the Secretary's decision, the Applicant must: (a) commission a suitably qualified, experienced and independent expert, whose appointment has been approved by the Secretary, to: • consult with the landowner to determine his/her concerns; • conduct monitoring to determine whether the development is complying with the relevant impact assessment criteria in Schedule 3; and • if the development is not complying with these criteria then: ○ determine if more than one mine or development is responsible for the exceedance, and if so the relative share of each mine or development regarding the impact on the land; and ○ identify the measures that could be implemented to ensure compliance with the relevant criteria; and (b) give the Secretary and landowner a copy of the independent review.	Section 8.3
Appendix 5 Condition 1	NOISE COMPLIANCE ASSESSMENT Applicable Meteorological Conditions The noise criteria in Table 3 in Schedule 3 are to apply under all meteorological conditions except the following: (a) average wind speed at microphone height exceeds 5 m/s; (b) wind speeds greater than 3 m/s measured at 10 m above ground level; or (c) temperature inversion conditions greater than 3°C/100 m.	Section 3.2
Appendix 5 Condition 2	Determination of Meteorological Conditions Except for wind speed at microphone height, the data to be used for determining meteorological conditions must be that recorded by the meteorological station required under condition 18 of Schedule 3.	Section 3.2
Appendix 5 Condition 3	Compliance Monitoring Attended monitoring is to be used to evaluate compliance with the relevant conditions of this consent.	Section 5
Appendix 5 Condition 4	This monitoring must be carried out at least 12 times in each calendar year (ie at least once in every calendar month), unless the Secretary directs otherwise.	Section 5 Approval sought by the Secretary to reduce to quarterly monitoring via previously approved Western Region Management Plan, and this Management Plan.
Appendix 5 Condition 5	Unless the Secretary agrees otherwise, this monitoring is to be carried out in accordance with the relevant requirements for reviewing performance set out in the NSW Industrial Noise Policy (as amended from time to time), in particular the requirements relating to: (a) monitoring locations for the collection of representative noise data; (b) meteorological conditions during which collection of noise data is not appropriate; (c) equipment used to collect noise data, and conformity with Australian Standards relevant to such equipment; and	Section 3.2 and Section 5.1

Condition	Requirement	Management Plan Section																																																												
	(d) modifications to noise data collected, including for the exclusion of extraneous noise and/or penalties for modifying factors apart from adjustments for duration.																																																													
EPL 21229																																																														
P1.4	The following points referred to in the table below are identified in this licence for the purposes of weather and/or noise monitoring and/or setting limits for the emission of noise from the premises. Noise/Weather <table><tr><th>EPA identification no.</th><th>Type of monitoring point</th><th>Location description</th></tr><tr><td>8</td><td>Noise monitoring</td><td>Residence at Lot 3 DP1026541 Blackmans Flat shown as WNM1 on Plan PC7033 dated 17 April 2019 (EPA DOC19/17254-4).</td></tr><tr><td>9</td><td>Noise monitoring</td><td>Residence at Lot 1 DP 666540 shown as WNM2 on Plan PC7033 dated 17 April 2019 (EPA DOC19/17254-4).</td></tr><tr><td>10</td><td>Noise monitoring</td><td>Residence at Lot 1 DP963671 Blackmans Flat shown as WNM3 on Plan PC7033 dated 17 April 2019 (EPA DOC19/17254-4).</td></tr><tr><td>11</td><td>Noise monitoring</td><td>Residence at Lot 102 DP1096754 Blackmans Flat shown as WNM4 on Plan PC7033 dated 17 April 2019 (EPA DOC19/17254-4).</td></tr></table>	EPA identification no.	Type of monitoring point	Location description	8	Noise monitoring	Residence at Lot 3 DP1026541 Blackmans Flat shown as WNM1 on Plan PC7033 dated 17 April 2019 (EPA DOC19/17254-4).	9	Noise monitoring	Residence at Lot 1 DP 666540 shown as WNM2 on Plan PC7033 dated 17 April 2019 (EPA DOC19/17254-4).	10	Noise monitoring	Residence at Lot 1 DP963671 Blackmans Flat shown as WNM3 on Plan PC7033 dated 17 April 2019 (EPA DOC19/17254-4).	11	Noise monitoring	Residence at Lot 102 DP1096754 Blackmans Flat shown as WNM4 on Plan PC7033 dated 17 April 2019 (EPA DOC19/17254-4).	Section 3.2 and Section 5																																													
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L5	Noise limits Noise generated at the premises that is measured at each noise monitoring point established under this licence must not exceed the noise levels specified in Column 4 of the table below for that point during the corresponding time periods specified in Column 1 when measured using the corresponding measurement parameters listed in Column 2. Point 10 <table><tr><th>Time period</th><th>Measurement parameter</th><th>Measurement frequency</th><th>Noise level dB(A)</th></tr><tr><td>Day</td><td>LAeq (15 minute)</td><td>Quarterly</td><td>36</td></tr><tr><td>Evening</td><td>LAeq (15 minute)</td><td>Quarterly</td><td>35</td></tr><tr><td>Night</td><td>LAeq (15 minute)</td><td>Quarterly</td><td>35</td></tr><tr><td>Night</td><td>Night-LA1 (1 minute)</td><td>Quarterly</td><td>45</td></tr></table> Point 11 <table><tr><th>Time period</th><th>Measurement parameter</th><th>Measurement frequency</th><th>Noise level dB(A)</th></tr><tr><td>Day</td><td>LAeq (15 minute)</td><td>Quarterly</td><td>35</td></tr><tr><td>Evening</td><td>LAeq (15 minute)</td><td>Quarterly</td><td>35</td></tr><tr><td>Night</td><td>LAeq (15 minute)</td><td>Quarterly</td><td>36</td></tr><tr><td>Night</td><td>Night-LA1 (1 minute)</td><td>Quarterly</td><td>45</td></tr></table> Point 8 <table><tr><th>Time period</th><th>Measurement parameter</th><th>Measurement frequency</th><th>Noise level dB(A)</th></tr><tr><td>Day</td><td>LAeq (15 minute)</td><td>Quarterly</td><td>40</td></tr><tr><td>Evening</td><td>LAeq (15 minute)</td><td>Quarterly</td><td>35</td></tr><tr><td>Night</td><td>LAeq (15 minute)</td><td>Quarterly</td><td>35</td></tr><tr><td>Night</td><td>Night-LA1 (1 minute)</td><td>Quarterly</td><td>47</td></tr></table>	Time period	Measurement parameter	Measurement frequency	Noise level dB(A)	Day	LAeq (15 minute)	Quarterly	36	Evening	LAeq (15 minute)	Quarterly	35	Night	LAeq (15 minute)	Quarterly	35	Night	Night-LA1 (1 minute)	Quarterly	45	Time period	Measurement parameter	Measurement frequency	Noise level dB(A)	Day	LAeq (15 minute)	Quarterly	35	Evening	LAeq (15 minute)	Quarterly	35	Night	LAeq (15 minute)	Quarterly	36	Night	Night-LA1 (1 minute)	Quarterly	45	Time period	Measurement parameter	Measurement frequency	Noise level dB(A)	Day	LAeq (15 minute)	Quarterly	40	Evening	LAeq (15 minute)	Quarterly	35	Night	LAeq (15 minute)	Quarterly	35	Night	Night-LA1 (1 minute)	Quarterly	47	Section 3.2
Time period	Measurement parameter	Measurement frequency	Noise level dB(A)																																																											
Day	LAeq (15 minute)	Quarterly	36																																																											
Evening	LAeq (15 minute)	Quarterly	35																																																											
Night	LAeq (15 minute)	Quarterly	35																																																											
Night	Night-LA1 (1 minute)	Quarterly	45																																																											
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Night	Night-LA1 (1 minute)	Quarterly	47																																																											

Condition	Requirement	Management Plan Section																				
	Point 9 <table><tr><th>Time period</th><th>Measurement parameter</th><th>Measurement frequency</th><th>Noise level dB(A)</th></tr><tr><td>Day</td><td>LAeq (15 minute)</td><td>Quarterly</td><td>41</td></tr><tr><td>Evening</td><td>LAeq (15 minute)</td><td>Quarterly</td><td>35</td></tr><tr><td>Night</td><td>LAeq (15 minute)</td><td>Quarterly</td><td>35</td></tr><tr><td>Night</td><td>Night-LA1 (1 minute)</td><td>Quarterly</td><td>55</td></tr></table> Note: LAeq means the equivalent continuous noise level - the level equivalent to the energy average of noise levels occurring over a measurement period. Day is defined as the period from 7am to 6pm Monday to Saturday and 8am to 6pm Sundays and Public Holidays. Evening is defined as the period of 6pm to 10pm. Night is defined as the period from 10pm to 7am Monday to Saturday and 10pm to 8am on Sundays and Public Holidays.	Time period	Measurement parameter	Measurement frequency	Noise level dB(A)	Day	LAeq (15 minute)	Quarterly	41	Evening	LAeq (15 minute)	Quarterly	35	Night	LAeq (15 minute)	Quarterly	35	Night	Night-LA1 (1 minute)	Quarterly	55	
Time period	Measurement parameter	Measurement frequency	Noise level dB(A)																			
Day	LAeq (15 minute)	Quarterly	41																			
Evening	LAeq (15 minute)	Quarterly	35																			
Night	LAeq (15 minute)	Quarterly	35																			
Night	Night-LA1 (1 minute)	Quarterly	55																			
L5.2	The noise emission limits identified in this licence apply under all meteorological conditions except: a) during rain and wind speeds (at 10m height) greater than 3m/s; and b) under "non-significant weather conditions". Note: Field meteorological indicators for non-significant weather conditions are described in the NSW Industrial Noise Policy, Chapter 5 and Appendix E in relation to wind and temperature inversions.	Section 3.2																				
L5.3	Notwithstanding Condition L4.1, the noise limit specified under that condition does not apply to any sensitive receiver where a noise agreement is in place between the licensee and the respective landowner(s) in relation to noise impacts and/or noise limits.	Section 3.2																				
L6.1	Dozer operations may only occur during the day time periods. Day time is defined under condition L4.1.	Table 5																				
M7	Noise monitoring To assess compliance with the noise limits specified within this licence, the licensee must undertake operator attended noise monitoring at each specified noise monitoring point in accordance with the table below. Point 8,9 10,11 <table><tr><th>Assessment period</th><th>Minimum frequency in a reporting period</th><th>Minimum duration within assessment period</th><th>Minimum number of assessment period</th></tr><tr><td>Day, Evening, Night</td><td>Special Frequency 1</td><td>15 minutes</td><td>1 operation day</td></tr></table> Note: For the purpose of M7.1, Special Frequency 1 means undertake noise monitoring once a year and in response to any complaint made to the licensee. Where monitoring is in response to a complaint made to the licensee, the noise monitoring need only cover the assessment period(s) for which the complaint is referring.	Assessment period	Minimum frequency in a reporting period	Minimum duration within assessment period	Minimum number of assessment period	Day, Evening, Night	Special Frequency 1	15 minutes	1 operation day	Section 5												
Assessment period	Minimum frequency in a reporting period	Minimum duration within assessment period	Minimum number of assessment period																			
Day, Evening, Night	Special Frequency 1	15 minutes	1 operation day																			

Appendix 2. Consultation

Table A2-1: Consultation Log

Consultation Date	Regulator	Details	Where addressed in the MP
15/10/2025	EPA	Provision of the Management Plan for consultation via the Planning Portal (SSD-5579-PA-63)	NA
12/11/2025	EPA	The EPA consultation response is attached below (SSD-5579-PA-63).	NA



Our ref: DOC25/882008-2

The Proper Officer
Springvale Coal Pty Ltd
1613 Castlereagh Highway
Blackmans Flat NSW 2790
Submitted via Major Projects Planning Portal

12 November 2025

Dear The Proper Officer,

**SPRINGVALE COAL PTY LTD – EPL 21229 – WESTERN COAL SERVICES
Noise Management Plan October 2025**

Thank you for the request for advice under Public Authority Consultation (PAE-96579956), requesting input from the NSW Environment Protection Authority (EPA) on the post-approval Noise Management Plan for Western Coal Services.

The EPA encourages the development of Environmental Management Plans, and that the Noise Management Plan is prepared in accordance with statutory obligations and environmental objectives as specified by any Project Approval and/or conditions of an environmental protection licence. The Noise Management Plan should be reviewed on a regular basis and updated as required.

The EPA's role as a regulatory authority is to set environmental management objectives rather than be directly involved in the development of the strategies to achieve those objectives.

If you have any specific questions regarding this matter, please contact EPA Officer Shana Read on 0409 302 018 or via e-mail at shana.read@epa.nsw.gov.au.

Yours sincerely

A handwritten signature in blue ink, appearing to read 'Lucy Apps', is written over a light blue circular stamp.

LUCY APPS
Unit Head
Regulatory Operations
Environment Protection Authority

NSW Environment Protection Authority
As the environmental steward and regulator of our
State we are committed to a sustainable future.
Join us on our mission to protect tomorrow together.

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Parramatta NSW 2150
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Locked Bag 5022
Parramatta NSW 2124



Appendix 3. Baseline Data

Existing Environment – Regional Context

Meteorology

The geographical area of the western region operations is within a 'temperate' climatic zone. Sub-classes of the climatic classification avoid a 'hot summer' (primarily due to elevation) and are a mixture of 'warm summer' classes with either 'no dry season' or 'moderately dry winter'.

While the western region operations straddle the Great Dividing Range, the Newnes Plateau provides some protection from weather systems originating from the east. However, The Great Dividing Ranges themselves are capable of generating enhancement of rain (convective thunderstorm) activity.

Winter westerly winds are a dominate feature as the sub-tropical ridge migrates to the north before spending a greater time to the south for the warmer months. Local winds associated with funnelling through valley systems produces local effects that mask the more regional to synoptic scale weather patterns.

Sensitive receivers

Sensitive receivers within the western region predominantly consist of residential properties. Other sensitive receivers include recreational areas within the Newnes Plateau.

Isolated rural residential properties are scattered around all operations within the western region. More urbanised residential properties are concentrated in areas such as Blackmans Flat.

A detailed map of residential properties surrounding the WCS can be found in **Figure 2**.

Baseline noise levels

Noise monitoring has been undertaken by Centennial in the western region operations for many years. Long term trends in noise levels have been established around all operations, inclusive of background reference levels. This data is typically summarised in NIAs, monitoring reports and Annual Reviews for each operation.

Baseline noise levels have been measured throughout the planning and approvals phase for each operation. These baseline levels are then used to establish operational noise limits for each operation, which are contained with the Development Consents.

Ongoing noise monitoring is then undertaken to assess compliance with these Development Consents.

Western Coal Services Environmental Impact Statement

The *Western Coal Services Project Environmental Impact Statement* (RPS, 2013) included a Noise and Vibration Impact Assessment which was undertaken by SLR Consulting Australia Pty Ltd, *Centennial Western Coal Services Project Noise and Vibration Impact Assessment* (SLR, 2013)

Existing Acoustic Environment Summary

Ambient noise surveys were conducted across five key receptor locations within the Project Assessment Area (PAA) to assess day, evening, and night-time noise levels. The locations included Blackmans Flat, Wallerawang, Lidsdale, Wolgan Road, and Springvale, and were selected based on their sensitivity to noise and proximity to project-related sources.

- Blackmans Flat: Noise levels were adjusted to exclude contributions from the Springvale Coal Services Site. During the evening and night, background levels of 30 dBA or lower were recorded when highway traffic subsided.
- Wallerawang & Lidsdale: Existing environmental approvals (MP 08_0223 and MP 06_0021) set the applicable noise criteria. As the project does not alter operations such as the overland conveyor or haul roads, the existing criteria remain valid.
- Wolgan Road: Also governed by MP 06_0021, with no changes expected to approved operations. Current noise limits are deemed suitable for continued use.
- Springvale: Background noise monitoring, conducted quarterly since 2010 by SLR Consulting, included unattended logging and attended surveys at locations S1 to S5. In areas less impacted by industrial noise, 30 dBA was established as the representative Rating Background Level (RBL). At location S3, higher ambient levels were observed due to nearby power station and highway activity, with an LAeq(15min) of 51 dBA recorded.

These baseline measurements and established criteria will inform the assessment and management of noise impacts related to the proposed project.

Noise and Vibration Impact Assessment

Summary of Noise and Vibration Impact Assessment

1. Operational Noise:
 - Residual noise impacts above acceptable levels are expected at some homes in Blackmans Flat.
 - Individual agreements with affected residents are being prepared due to limited effective mitigation options.
 - Noise levels for Wallerawang, Lidsdale, Wolgan Road, and Springvale are within their respective project-specific noise criteria under all operating conditions.
 - The existing overland conveyor contributes minimal noise compared to the overall Springvale Mine operation.
2. Cumulative Noise:
 - Combined noise from nearby industrial and mining sources, including power stations and mines, is within acceptable levels during the day.
 - At night, noise slightly exceeds acceptable levels (40 dBA) at two locations (B2 and B17), but remains below the maximum limit (45 dBA).
3. Sleep Disturbance:

- Noise levels meet sleep disturbance guidelines for most locations.
 - At Blackmans Flat and Wolgan Road, there may be exceedances, but they are below levels likely to cause awakenings.
 - Planned mitigation measures will also help reduce nighttime impacts.
4. Construction Noise:
 - Noise levels will generally comply with guidelines, except at receivers B2, B4, B5, and B6.
 - Even in these cases, noise remains below the “highly noise affected” threshold.
 5. Road Traffic Noise:
 - Noise increase from additional project traffic is negligible.
 6. Vibration:
 - Predicted vibration levels during construction and operation are well below thresholds for damage or annoyance.
 - Blasting distances and monitoring will be used to manage and validate vibration levels.

The predicted noise emission levels indicate that many noise receivers modelled will meet the Project Specific Noise Criteria established for the Project. However, the results of the Noise and Vibration Impact Assessment indicate that there will be likely residual noise impacts above the Project Specific Noise Criteria at some of the receptors at Blackmans Flat. Noise mitigation and management measures will be implemented to reduce the impact of the noise emissions from the Project.

Western Coal Services Statement of Environmental Effects (Modification 2)

The *Western Coal Services Project Statement of Environmental Effects* (Centennial Coal Company Limited, 2017) included the *Western Coal Services Project Noise Impact Assessment*, (Global Acoustics Pty Ltd, 2017) which built on the Noise and Vibration Impact Assessment (SLR, 2013).

Consequences of Potential Noise Impacts and Conclusion

Noise modelling for the SCSS (Springvale Coal Services Site) operations indicates that, with the implementation of proposed noise controls, exceedances of noise criteria across 168 assessed receptor locations will reduce significantly—from 78 to 21 instances across day, evening, and night periods. The remaining 21 predicted exceedances (9 day, 5 evening, 7 night) are all within 1–2 dB of the relevant WCS consent criteria. Such minor exceedances are considered negligible, not perceptible to the average listener, and do not warrant residential mitigation or land acquisition, in line with the NSW Voluntary Land Acquisition Policy (DPE, 2014).

The noise control measures will be implemented over a two-year period, with priority given to mitigating the most significant noise sources, such as conveyors. This phased approach aims to achieve full compliance with consent noise criteria as early as possible. Further re-modelling will be undertaken to verify the effectiveness of these mitigation measures.

Once all mitigation and management strategies are implemented, the resulting noise levels are expected to be the lowest since SCSS operations began, representing a significant long-term improvement for surrounding communities.

Cumulative assessments (with Mount Piper Power Station operations) confirm that noise levels meet acceptable criteria for day and evening periods at all receptors. Two receptors in Blackmans Flat (B4 and B17) are predicted to slightly exceed the night-time criterion; however, these are either already covered under existing consent limits or acquisition provisions, and thus no additional cumulative noise impacts are anticipated.

Low-frequency noise assessments identified one receptor (B17) requiring a 2 dB penalty, though levels remained below consent limits even after this adjustment.

Recommendations

- Apply WCS consent noise criteria solely to SCSS operations.
- Ensure operational constraints apply only to key infrastructure (conveyor system, haul roads, stockpile areas), not under broader SSD 5579 limits.
- Implement engineered noise controls on all significant plant promptly.
- Strengthen operational management of mobile plant along SCSS and haul roads.
- Develop and deploy a real-time noise monitoring and management system.

Appendix 4. Noise Reduction Study

1. Introduction

Western Coal Services (WCS) is located to the west of the Blue Mountains in the Lithgow Local Government Area in New South Wales. The largest project component, the Springvale Coal Services Site, is located approximately 125 kilometres (km) from Sydney, approximately 15 km north of city of Lithgow, approximately 5 km north-northwest from the township of Wallerawang, and approximately 4 km northwest of the village of Lidsdale.

WCS comprises an over land conveyor linking Springvale Coal Mine to Mt Piper Power Station, a Washery, and the Kerosene Vale Coal Stockpile Area.

The Springvale Coal Services site (SCSS) receives coal from both the Springvale and Angus Place Collieries, and sends washed and run of mine coal to customers via Lidsdale Siding.

WCS has existing development approvals in place enabling up to 9.5 million tonnes of coal to be received per annum and up to seven million tonnes for ROM coal to be processed per annum.

WCS was granted State Significant Development consent SSD-5579 (the Consent) on 04 April 2014 by the Planning & Assessment Commission of NSW, as delegate of the then Minister of Planning and Infrastructure, under Section 89E of the Environmental Planning and Assessment Act 1979 (EP&A Act).

On 15 December 2017, the WCS SSD-5579 Development Consent was modified (MOD 2) to revise the application of noise criteria to the Project components. The conditions of approval following MOD 2 being determined required the development of a Noise Reduction Study for the overland conveyor and the SCCS components of the Western Coal Services operations.

2. Purpose

This Noise Reduction Study (NRS) has been prepared to satisfy the requirements of Condition 8A of the WCS SSD-5579 Development Consent.

This NRS forms an Appendix to the Western Region Noise Management Plan should be read in conjunction with the Western Region Noise Management Plan, specifically the Western Coal Services Noise Management Plan provided as Appendix F1 to the Western Region Noise Management Plan.

The purpose of the NRS is to identify any noise reduction that is achieved via the reasonable and feasible measures proposed in the statement of commitments (SOC) MOD 2 to inform proposed future compliance conditions for inclusion in the site Environmental Protection Licence (EPL).

The condition of consent that relate to noise management at WCS and where they have been addressed in this document is provided in Table 1 below.

Table 1 – SSD-5579 Condition 8A Noise Reduction Strategy

Condition Number	Noise Reduction Study – Conditions	Section Covered in Plan
Schedule 3, Condition 8A	The Applicant shall prepare and implement a noise reduction study for the overland coal conveyor and SCSS to the satisfaction of the Secretary. The study must:	Appendix 4 (This document)
Schedule 3, Condition 8A(a)	be prepared in consultation with the EPA, and be submitted to the Secretary for approval by the end of February 2018, unless otherwise agreed by the Secretary;	Section 13
Schedule 3, Condition 8A(b)	identify sensitive receptors and existing noise levels in the vicinity of the overland coal conveyor and SCSS;	Section 3
Schedule 3, Condition 8A(c)	investigate and propose reasonable and feasible measures to mitigate noise associated with the overland coal conveyor and SCSS, including but not necessarily limited to: A.1 low noise idlers, barriers or other measures on sections of the conveyor system; and A.2 cladding, attenuated plant or other measures at the CHPP;	Section 4
Schedule 3, Condition 8A(d)	predict changes in noise levels in the vicinity of the overland coal conveyor and SCSS associated with the proposed noise mitigation measures; and	Section 5
Schedule 3, Condition 8A(e)	provide a maintenance schedule for the overland coal conveyor to be implemented in the Noise Management Plan (see condition 9 below).	Section 11

3. Existing Environment

MOD 2 Environmental Assessment included existing WCS noise level predictions and identified 168 sensitive receptors in the vicinity of the project.

Monthly attended noise monitoring since 2014 has regularly quantified noise contributions from the overland conveyor and SCSS, and has validated the existing modelled predictions.

Existing noise level data will be used as a baseline to evaluate the noise reductions achieved by the proposed mitigation measures.

Existing noise levels for the overland conveyor system and the SCSS as predicted are provided in Tables 2 and 3 below.

**Table 2 – Overland Conveyor System Unmitigated Noise Predictions – Laeq,15minute
dB**

Receptor ID	Day	Evening	Night	Receptor ID	Day	Evening	Night
B12	27	31	31	L42	40	44	43
B13	29	34	34	L43	40	43	43
B14	31	35	34	L44	40	43	43
B15	34	38	37	L45	41	44	43
B16	37	41	40	L46	40	42	42
B17	45	46	46	L47	38	41	41
B18	15	23	22	L48	37	41	40
B19	32	36	35	L49	38	42	41
B20	34	37	37	L50	38	43	43
B21	34	37	37	L51	42	45	44
B22	37	39	39	L52	42	45	44
B23	37	40	40	L53	43	45	45
B24	35	38	38	L54	43	45	44
B25	35	38	38	L55	43	46	45
B26	35	38	38	L56	43	45	44
B27	35	37	37	L57	43	46	45
B28	35	38	38	L58	42	45	44
B29	35	38	38	L59	42	45	44
B30	35	38	38	L60	42	45	44
B31	35	37	37	L61	42	45	44
B32	36	39	39	L62	42	44	44
B33	37	40	40	L63	42	45	44

Receptor ID	Day	Evening	Night	Receptor ID	Day	Evening	Night
B34	37	40	40	L64	42	44	44
B35	34	37	37	L65	41	44	44
B36	37	41	41	L66	41	44	44
B37	40	43	43	L67	41	44	44
B38	39	42	42	L68	41	43	43
B39	42	45	45	L69	41	44	44
B40	42	44	44	L70	40	43	42
B41	43	45	45	L71	40	42	42
B42	43	45	45	L72	40	42	42
B43	43	46	46	L73	39	42	41
B44	38	41	41	L74	40	43	42
B45	37	40	40	L75	39	42	41
B46	36	40	40	L76	39	42	41
B47	36	40	39	L77	35	38	38
B48	36	40	40	L78	37	40	39
B49	37	40	40	L79	36	39	39
B50	37	40	40	L80	35	38	38
B51	37	40	40	L81	37	39	39
B52	33	36	36	L82	38	40	39
B53	38	41	41	L83	38	40	39
L1	34	38	38	L84	35	38	37
L2	41	43	43	L85	35	38	37
L3	47	48	48	L86	35	38	37
L4	47	48	47	L87	34	38	37

Receptor ID	Day	Evening	Night	Receptor ID	Day	Evening	Night
L5	46	48	47	L88	35	38	37
L6	46	48	47	L89	35	38	38
L7	46	48	47	L90	35	38	38
L8	45	47	47	L91	35	38	38
L9	45	47	46	L92	35	38	38
L10	44	46	45	L93	35	39	39
L11	46	49	47	L94	35	39	39
L12	45	46	45	L95	35	39	39
L13	43	45	44	L96	35	39	39
L14	42	44	44	L97	35	38	38
L15	45	46	46	L98	35	38	37
L16	45	47	46	L99	33	36	36
L17	46	48	47	L100	32	36	35
L18	46	48	47	L101	32	35	35
L19	46	47	46	P1	16	21	21
L20	45	47	46	P2	15	20	20
L21	45	47	46	P3	20	26	26
L22	45	46	46	P4	17	24	24
L23	44	45	46	P5	12	23	23
L24	43	44	44	R1	47	50	49
L25	42	44	43	R2	42	45	44
L26	45	46	46	R3	45	48	47
L27	41	43	43	R4	46	49	48
L28	44	45	45	R7	37	41	40

Receptor ID	Day	Evening	Night	Receptor ID	Day	Evening	Night
L29	44	45	45	R8	41	44	43
L30	44	46	46	R9	38	41	41
L31	41	43	42	R10	38	42	41
L32	42	43	43	R11	39	43	41
L33	42	44	44	R12	40	45	43
L34	42	44	43	S1	43	45	44
L35	41	43	43	S2	41	43	42
L36	41	43	43	S3	46	47	47
L37	41	43	43	S4	34	35	35
L38	41	43	43	S5	32	33	33
L39	41	43	43	WR1	26	29	28
L40	41	43	43	WR2	28	31	30
L41	41	44	43				

Table 3 – SCSS Unmitigated Noise Predictions – Laeq,15minute dB

Receptor ID	Day	Evening	Night	Receptor ID	Day	Evening	Night
B4	45	49	49	L35	29	29	29
B12	37	41	39	L36	29	29	29
B13	41	43	42	L37	29	30	29
B14	37	39	38	L38	29	30	29
B15	40	41	40	L39	29	30	30
B16	40	42	40	L40	29	30	30
B17	45	46	46	L41	29	30	29
B18	15	18	17	L42	29	29	29

Receptor ID	Day	Evening	Night	Receptor ID	Day	Evening	Night
B19	37	39	38	L43	29	29	29
B20	39	40	39	L44	26	27	26
B21	38	39	39	L45	26	27	27
B22	38	39	38	L46	26	26	26
B23	39	40	39	L47	26	27	27
B24	38	39	38	L48	26	27	27
B25	38	39	38	L49	24	25	25
B26	37	38	37	L50	26	27	27
B27	37	38	37	L51	26	27	27
B28	37	38	38	L52	26	27	27
B29	36	38	37	L53	30	30	30
B30	36	37	36	L54	29	30	30
B31	35	37	36	L55	30	30	30
B32	37	38	38	L56	27	27	27
B33	36	37	36	L57	30	31	31
B34	35	37	35	L58	29	30	30
B35	35	36	36	L59	30	30	30
B36	29	30	29	L60	30	30	30
B37	26	28	27	L61	30	31	30
B38	31	33	32	L62	30	30	30
B39	29	30	29	L63	30	31	30
B40	30	31	30	L64	30	30	30
B41	29	30	29	L65	30	30	30
B42	29	31	30	L66	30	31	30

Receptor ID	Day	Evening	Night	Receptor ID	Day	Evening	Night
B43	29	31	31	L67	30	30	30
B44	27	28	27	L68	30	31	30
B45	28	30	28	L69	30	31	30
B46	28	29	28	L70	30	31	30
B47	28	29	28	L71	30	31	31
B48	27	29	27	L72	30	31	31
B49	27	29	27	L73	31	31	31
B50	24	26	24	L74	31	32	31
B51	23	25	22	L75	31	31	31
B52	33	34	33	L76	31	32	31
B53	35	37	34	L77	31	31	31
B54	40	41	40	L78	31	32	31
B55	40	41	40	L79	31	32	31
B56	40	41	39	L80	31	32	31
B57	39	40	39	L81	31	32	31
B58	39	40	39	L82	31	32	31
B59	30	32	30	L83	31	32	31
B60	30	31	30	L84	31	32	31
L1	31	33	31	L85	31	32	31
L2	29	30	29	L86	31	32	31
L3	27	28	27	L87	31	32	31
L4	27	28	28	L88	31	32	31
L5	27	29	28	L89	31	32	31
L6	27	29	28	L90	31	32	31

Receptor ID	Day	Evening	Night	Receptor ID	Day	Evening	Night
L7	27	29	28	L91	31	32	31
L8	27	29	28	L92	31	33	31
L9	27	29	28	L93	32	33	31
L10	27	29	28	L94	32	33	32
L11	27	29	28	L95	31	32	31
L12	27	29	28	L96	30	32	30
L13	27	29	28	L97	30	32	30
L14	26	29	27	L98	32	33	32
L15	27	29	28	L99	32	33	33
L16	28	29	28	L100	32	33	32
L17	27	28	28	L101	31	33	32
L18	28	29	28	R1	28	28	28
L19	28	29	28	R2	27	28	28
L20	28	29	28	R3	27	29	29
L21	21	22	21	R4	22	26	26
L22	20	22	21	R7	27	28	28
L23	27	28	28	R8	27	28	28
L24	28	28	28	R9	26	28	28
L25	28	29	28	R10	18	28	28
L26	28	29	29	R11	14	23	21
L27	28	29	28	R12	14	22	21
L28	29	29	29	S1	22	23	23
L29	23	24	23	S2	22	22	22
L30	22	23	22	S3	28	28	28

Receptor ID	Day	Evening	Night	Receptor ID	Day	Evening	Night
L31	28	29	29	S4	19	19	19
L32	28	29	29	S5	18	18	18
L33	29	29	29	WR1	28	30	29
L34	29	29	29	WR2	31	32	32

4. Mitigation and Management Measures

Extensive investigations have been completed to identify reasonable and feasible mitigation measures to reduce noise levels from both the Overland Conveyor Systems and the SCSS.

The mitigation measures identified as part of the MOD 2 Statement of Environmental Effects to be implemented are detailed below.

4.1 Overland Conveyors

The overland conveyor system is divided into 9 zones for the purposes of noise management as identified in Figures 1 and 2 below.

In December 2017, Springvale Coal completed installation of low noise idlers across sections of the overland conveyor system that run through Lidsdale and Wallerawang.

These management zones are shown in Figure 2 below. Low noise idlers have continued to be implemented on the identified reasonable and feasible OL1 and OL2 sections of the overland conveyor system in Lidsdale. These works were completed in December 2017.

Areas within the SCSS where low noise idlers will be installed along the CW01, CW02, OL2, and OL3 sections of the Overland Conveyor System traversing through SCSS are shown in Figure 3 below.

4.2 Springvale Coal Services Sites

Mitigation controls for the SCSS were implemented over a two-year period and each stage was completed by the indicative dates below.

- (a) Restriction on dozer operations to daytime period only (Immediately).
- (b) Installation of low noise idlers along the CW01 and CW02 sections of the internal onsite Conveyor System (June 2018).
- (c) Installation of low noise idlers along the OL2 and OL3 sections of the Overland Conveyor System traversing through SCSS, as required in conjunction with other noise attenuation measures to achieve compliance (June 2018).

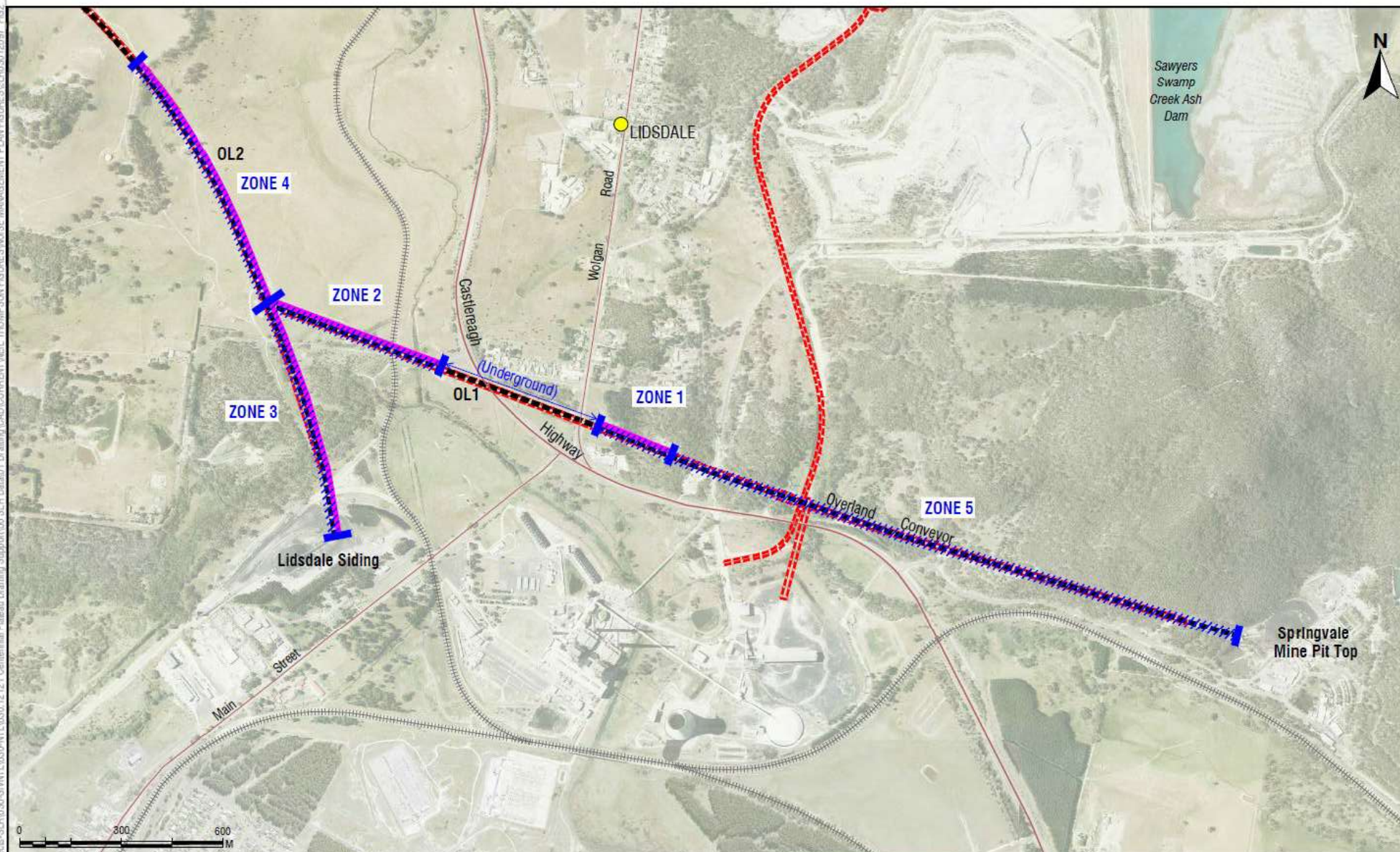
- (d) Installation of noise barrier around the OL2/OL3 transfer point drive, as required in conjunction with other noise attenuation measures to achieve compliance (June 2018)
- (e) Clad the existing coal preparation plant with noise attenuating panels, as required in conjunction with other noise attenuation measures to achieve compliance (June 2019)
- (f) Upgrade modelled mobile plant used on site to meet, as a minimum, the sound power level used in the WCS Noise Model (Loader 109 dB (A-weighted) / 113 dB (linear); Dozer 108 dB (A weighted) / 117 dB (linear)), or as required in conjunction with other noise attenuation measures to achieve compliance (December 2019).

 Project Application Area  Designated Zones
 Major Roads
 Railway
 Overland Conveyor System
 Town / City

DATE	02.03.2018
SEAM	LITHGOW
REFERENCE	SLR63012097_FIG1_OLC ID Zones_V1
SCALE	1:40000



Figure 1
Centennial Western Region
Western Coal Services -
Overland Conveyor
Identification Zones



LEGEND:	
--- Project Boundary	Designated Zones
+++++ Railway	
— Major Roads	
--- Overland Conveyor System	
--- Low Noise Idler Sections	
● Town / City	

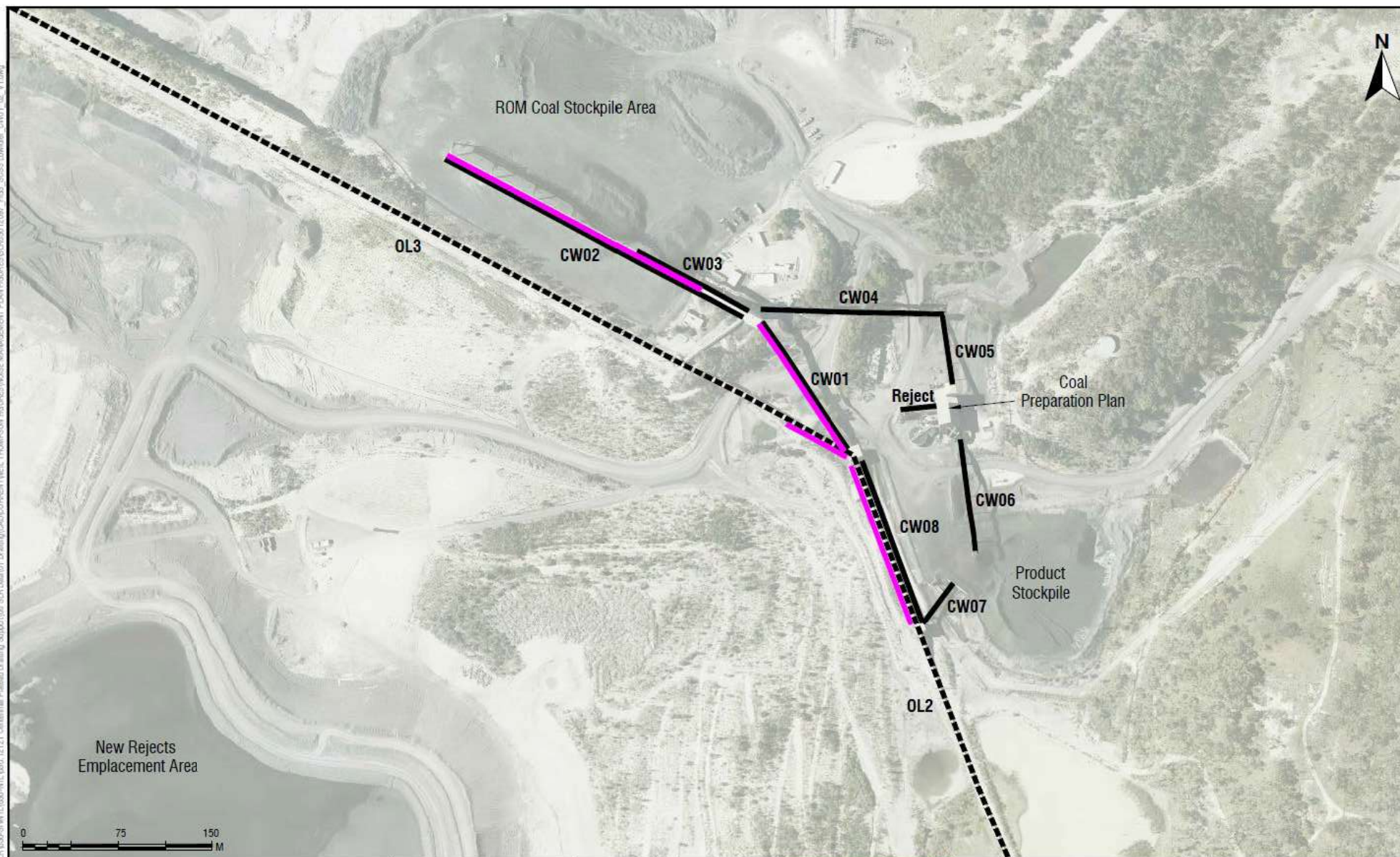
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DATE	02.03.2018
SEAM	LITHGOW
REFERENCE	SLR63012097_FIG2_OLC Zones_L & W Areas_V2
SCALE	1:15000



Figure 2
Centennial Western Region
Western Coal Services -
Overland Conveyor Identification
Zones (subset and Low Noise
Idler Zones - Lidsdale and
Wallerawang Areas)

\\vault.local\corporate\Projects\SLR\630-SWNT\800-NT\810_12121 Centennial Plateau Drafting Support\06 SLR Data\01 Drafting\CA\CURRENT\TIEL THOMPSON FIGURES\SCSS\63012097 FIG3 SCSS Lowdler CW01 02_V1.dwg



LEGEND:
--- Overland Conveyor System
— Internal Conveyors
— Low Noise Idler Sections

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DATE	02.03.2018
SEAM	LITHGOW
REFERENCE	SLR63012097_FIG3_SCSS Lowdler_CW01_02_V1
SCALE	1:4000



Figure 3
Centennial Western Region
Western Coal Services – SCSS -
Low Noise Idler Zones (CW01 and
CW02 sections of the internal onsite
Conveyor System, OL2 and OL3
sections of the Overland Conveyor
System traversing through SCSS)

 Centennial Coal

Prepared by: 

5. Predicted Changes in Noise Levels

The predicted noise levels as a result of the implementation of the noise management measures identified above for both the Overland Conveyor System and the SCSS is provided in Tables 4 and 5 respectively below.

Table 4 – Overland Conveyor Noise Predictions – Laeq,15minute dB

Receptor ID	Day	Evening	Night	Receptor ID	Day	Evening	Night
B4	32	36	35	L41	36	39	38
B12	27	31	31	L42	36	39	39
B13	29	34	34	L43	36	39	39
B14	31	34	33	L44	36	39	39
B15	34	37	36	L45	37	39	39
B16	37	40	40	L46	34	37	37
B17	45	46	46	L47	34	37	36
B18	15	22	21	L48	34	37	37
B19	32	36	35	L49	34	37	37
B20	34	37	36	L50	34	39	38
B21	34	37	36	L51	38	40	40
B22	35	38	38	L52	37	40	40
B23	36	39	38	L53	38	41	40
B24	34	37	36	L54	38	40	40
B25	34	36	36	L55	38	41	40
B26	33	36	36	L56	38	40	40
B27	33	36	36	L57	38	41	40
B28	34	36	36	L58	37	40	40
B29	33	36	36	L59	37	40	40
B30	33	36	36	L60	37	40	40
B31	33	36	36	L61	38	41	40
B32	35	38	38	L62	37	40	40
B33	36	39	39	L63	38	41	40
B34	36	39	39	L64	37	40	40

Receptor ID	Day	Evening	Night	Receptor ID	Day	Evening	Night
B35	32	35	35	L65	37	40	40
B36	33	37	37	L66	37	40	40
B37	36	39	39	L67	37	40	40
B38	35	38	38	L68	37	40	40
B39	38	40	40	L69	37	40	40
B40	37	40	40	L70	36	39	39
B41	38	41	40	L71	36	38	38
B42	38	41	41	L72	35	37	37
B43	39	41	41	L73	35	37	36
B44	34	37	36	L74	36	39	38
B45	33	36	36	L75	35	38	37
B46	33	36	35	L76	35	38	37
B47	33	36	35	L77	32	36	35
B48	33	36	35	L78	34	37	36
B49	33	36	35	L79	33	36	35
B50	33	36	35	L80	32	35	34
B51	34	36	36	L81	34	37	36
B52	30	33	32	L82	34	37	36
B53	35	38	38	L83	34	37	36
L1	30	35	35	L84	32	34	33
L2	36	39	39	L85	31	34	33
L3	41	42	42	L86	31	35	34
L4	41	42	42	L87	31	34	33
L5	41	43	42	L88	31	35	34
L6	41	43	42	L89	31	35	34
L7	41	43	42	L90	31	35	34
L8	40	42	41	L91	31	35	34
L9	39	42	40	L92	31	35	34
L10	39	40	40	L93	31	36	35

Receptor ID	Day	Evening	Night	Receptor ID	Day	Evening	Night
L11	41	43	42	L94	31	36	35
L12	39	41	40	L95	31	35	35
L13	38	40	39	L96	31	35	35
L14	37	39	39	L97	31	35	34
L15	39	41	40	L98	31	34	34
L16	40	41	40	L99	31	34	33
L17	41	42	41	L100	30	33	33
L18	40	42	41	L101	29	32	32
L19	40	42	41	P1	16	21	21
L20	39	41	40	P2	15	20	20
L21	40	41	40	P3	20	26	26
L22	38	40	39	P4	17	24	24
L23	42	44	44	P5	12	23	23
L24	40	42	43	R1	42	44	44
L25	38	41	41	R2	38	41	40
L26	40	41	40	R3	39	42	41
L27	38	40	40	R4	40	43	42
L28	39	40	39	R7	35	38	37
L29	38	40	39	R8	37	40	40
L30	39	41	40	R9	35	38	38
L31	37	39	38	R10	33	37	36
L32	37	39	39	R11	34	38	36
L33	37	39	39	R12	35	39	38
L34	37	39	39	S1	42	45	44
L35	37	39	39	S2	41	42	42
L36	37	39	39	S3	40	41	41
L37	37	39	39	S4	34	35	34
L38	37	39	39	S5	32	32	32
L39	37	39	39	WR1	24	27	26

Receptor ID	Day	Evening	Night	Receptor ID	Day	Evening	Night
L40	37	39	39	WR2	26	28	28

Table 5 – SCSS Noise Predictions – Laeq,15minute dB

Receptor ID	Day	Evening	Night	Receptor ID	Day	Evening	Night
B4	43	41	43	L35	27	25	26
B12	34	34	34	L36	27	25	26
B13	38	36	38	L37	27	25	27
B14	34	33	34	L38	27	25	26
B15	37	36	37	L39	27	25	27
B16	37	37	37	L40	27	25	27
B17	41	43	43	L41	27	25	26
B18	13	13	14	L42	26	25	26
B19	35	33	35	L43	26	25	26
B20	36	35	36	L44	25	21	24
B21	35	34	35	L45	25	21	24
B22	35	34	35	L46	24	20	24
B23	36	35	35	L47	25	22	24
B24	35	34	34	L48	25	21	24
B25	35	34	34	L49	22	20	22
B26	34	33	33	L50	24	21	24
B27	34	33	33	L51	25	21	24
B28	34	33	34	L52	25	21	24
B29	33	32	32	L53	27	26	27
B30	33	31	32	L54	27	26	27

Receptor ID	Day	Evening	Night	Receptor ID	Day	Evening	Night
B31	32	31	32	L55	27	26	27
B32	34	31	33	L56	25	21	24
B33	33	32	32	L57	28	27	28
B34	33	32	32	L58	27	26	27
B35	32	31	32	L59	28	26	27
B36	26	25	25	L60	28	26	27
B37	24	24	24	L61	28	27	27
B38	28	27	27	L62	28	26	27
B39	27	26	27	L63	28	27	27
B40	28	27	27	L64	28	27	27
B41	27	25	27	L65	27	27	27
B42	27	27	27	L66	28	27	27
B43	27	27	28	L67	27	27	27
B44	24	24	23	L68	28	27	27
B45	27	24	25	L69	28	27	27
B46	27	23	25	L70	28	27	27
B47	26	23	25	L71	28	27	27
B48	26	23	25	L72	28	27	27
B49	26	23	25	L73	28	27	27
B50	24	23	23	L74	28	27	28
B51	20	22	19	L75	28	27	27
B52	30	29	29	L76	28	27	27
B53	32	32	31	L77	28	27	27
B54	37	35	36	L78	28	27	27

Receptor ID	Day	Evening	Night	Receptor ID	Day	Evening	Night
B55	37	36	36	L79	28	27	27
B56	36	36	36	L80	28	27	27
B57	36	36	35	L81	28	27	27
B58	36	35	35	L82	28	27	27
B59	28	27	27	L83	28	27	27
B60	28	26	27	L84	28	27	27
L1	28	27	27	L85	28	27	27
L2	27	25	27	L86	28	27	27
L3	25	25	25	L87	28	27	27
L4	25	25	25	L88	28	27	27
L5	25	25	25	L89	28	27	27
L6	25	25	25	L90	28	27	27
L7	25	25	25	L91	28	27	27
L8	25	25	25	L92	28	27	27
L9	25	25	25	L93	29	28	27
L10	25	26	25	L94	29	28	28
L11	25	26	25	L95	28	28	27
L12	25	26	25	L96	27	27	26
L13	25	26	25	L97	27	27	25
L14	24	26	25	L98	29	28	28
L15	25	26	25	L99	29	29	29
L16	26	25	25	L100	29	28	28
L17	25	25	25	L101	28	28	28
L18	26	25	25	R1	25	24	25

Receptor ID	Day	Evening	Night	Receptor ID	Day	Evening	Night
L19	26	25	26	R2	25	24	25
L20	26	25	25	R3	25	26	27
L21	20	19	19	R4	20	19	22
L22	18	18	18	R7	24	24	25
L23	25	24	24	R8	24	24	25
L24	25	24	25	R9	24	24	24
L25	25	24	25	R10	15	23	24
L26	26	25	26	R11	12	18	18
L27	25	24	25	R12	11	15	16
L28	26	25	26	S1	20	19	19
L29	21	20	20	S2	19	18	18
L30	20	19	19	S3	25	25	25
L31	26	25	25	S4	16	15	16
L32	26	25	26	S5	16	14	15
L33	26	25	26	WR1	26	24	25
L34	26	25	26	WR2	28	28	28

6. Overland Conveyor – Noise Reduction Study Noise Monitoring Program

It is understood that after low noise idlers have been installed on the overland conveyor, noise levels have the potential to change in both the short and long term with effective noise mitigation deterioration rates unquantified.

A period of implementation and monitoring is required to accurately assess the effectiveness of implemented mitigation measures and to accurately predict changes in noise levels in the vicinity of the overland conveyor associated with implemented noise mitigation measures.

To progressively investigate and quantify noise levels from the overland conveyor system, a 6 monthly OLC Noise Reduction Study attended noise monitoring program will be implemented at 6 locations in Lidsdale and Wallerawang as shown in Figure 4 and listed in Table 6 below.

It should be noted that as part of the WCS monthly attended monitoring program overland conveyor system noise contributions will be quantified further inform the NRS.

The conveyor system zones will be monitored to allow for consistent testing, direct comparison of results between measurement campaigns, and for identification of areas of concern for further investigation.

Table 6 – Overland Conveyor Noise Reduction Study Monitoring Locations

OLC Noise Reduction Study Monitoring Locations	Monitoring Location		Monitor type	Frequency	Purpose
	Easting	Northing			
WNRSNM1	228036	6300415	Attended	6 Monthly	Noise Reduction Study
WNRSNM2	227420	6300654	Attended	6 Monthly	Noise Reduction Study
WNRSNM3	227484	6301148	Attended	6 Monthly	Noise Reduction Study
WNRSNM4	228419	6301150	Attended	6 Monthly	Noise Reduction Study
WNRSNM5	228461	6302189	Attended	6 Monthly	Noise Reduction Study
WNRSNM6	229017	6301056	Attended	6 Monthly	Noise Reduction Study

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A map of New South Wales, Australia, showing the location of the Western Coal Services Project Site. The site is marked with a red dot near Lithgow. Other locations marked include Sydney and Newcastle. A callout box points to the project site with the text "Western Coal Services Project Site".

 Centennial Coal
 Prepared by:  SLR  A4

7. Springvale Coal Services Sites – Noise Reduction Study Noise Monitoring Program

Attended noise monitoring at locations surrounding SCSS has been documented in Appendix F1 of the Western Region Noise Management Plan. This program is considered robust enough to identify any achieved noise reduction from the mitigation measures at SCSS off site.

The SCSS was modelled with all the proposed mitigation measures in the MOD 2 Environmental Assessment. The predicted results at each of the 168 receptors are provided in Table 5 above. Regardless of the noise levels predicted following the implementation of the noise mitigation measures, Springvale Coal Services are required to achieve the noise levels detailed within the Western Coal Services Project development consent (SSD-5579). Mitigation measures detailed in Section 4.2 of this Noise Reduction Study will be implemented on a staged basis until compliance with the development consent noise criteria has been achieved.

8. Sound Power Level Testing

Regular sound power screening testing will be continued to assist in managing equipment sound power levels, and identify plant items requiring maintenance.

Targeted sound power level testing of infrastructure or machinery will occur to assess and quantify change in noise levels;

- Within 2 months of the completion of the proposed mitigation measures being implemented; and
- Annually for the overland conveyor system.

Sound Power Level testing of the overland conveyor will be used to identify:

- Changes in noise levels,
- Potentially noisy equipment, and
- Potential additional actions for management and mitigation.

9. Model Validation

The overland conveyor and SCSS noise levels will be progressively modelled and validated with attended monitoring and sound power level monitoring results.

Site noise models will be updated with sound power results and monitoring data to evaluate the effectiveness of the noise mitigation measures implemented.

Modelled predictions in conjunction with the ongoing compliance monitoring results will be used to assess if further noise mitigation at SCSS is required.

Site noise models will be progressively updated with recent sound power results after each stage of mitigation, and the effectiveness of the noise mitigation measures will be assessed.

10. Determining Compliance Levels

It is proposed that accurate determination of mitigation effectiveness will require a minimum 2 year period of monitoring and assessment to provide sufficient information to accurately inform future proposed compliance management conditions for overland conveyor inclusion in the sites Environmental Protection Licence (EPL) and predict changes in noise levels in the vicinity of the overland coal conveyor with implemented mitigation measures.

The monitoring program is considered rigorous enough to accurately assess the overland conveyor system noise levels, to predict changes in noise levels in the vicinity of the overland coal conveyor with implemented mitigation measures, and to provide basis for future compliance management conditions for inclusion in the sites Environmental Protection Licence (EPL).

11. Overland Conveyors Maintenance Program

Schedule 3, Condition 9 of SSD-5579 requires that this Noise Management Plan detail a maintenance schedule for the overland conveyor system.

It has been determined that this information is best suited for inclusion as part of the Noise Reduction Study to ensure the effectiveness of the site maintenance program is evaluated and assessed to specifically include identified and committed measures to maintain noise mitigation measures as implemented (Low Noise Idlers installation).

Information provided in this management plan is limited to the context of the requirement for a maintenance schedule for the overland conveyor system for noise management mitigation measures, and does not include maintenance scheduling information related to non-noise mitigation processes undertaken at WCS.

11.1 Maintenance Management Process Overview

Regular and systematic maintenance of the entire overland conveyor system will be undertaken to identify and replace or repair noisy idlers as necessary. WCS maintenance activities related to the overland conveyor system are managed in accordance with a range of internal and external standards and management documents as required the under Coal Mines Health & Safety Act 2002.

WCS utilises a Pulse Maintenance System that provides:

- A work order system for mechanical work to be performed including but not limited to the following:
 - Scheduled Maintenance inspections
 - Response to breakdown situations
 - Corrective or remedial work
 - Defects in conjunction with” Out Of Service Tags”
 - Attaching safe work instructions to a particular task
 - Record of work completed.

The WCS Mechanical Engineering Control Plan (SCSO-MEMP-001) consolidates specific controls for the identified risks related to mechanical components of the overland conveyor system with Low Noise Idlers classified as mechanical components.

The purpose of SCSO-MEMP-001 is to define the standards, procedures and responsibilities required to maintain a system for effectively managing risks, in accordance with appropriate legislation, standards, codes of practice and guidelines.

SCSO-MEMP-001 aims to control the risks associated with mechanical energy through:

- The overall life cycle of plant and structures at the site
- The reliability of safe guards used at the site to protect persons from the hazards posed by plant and structures during each phase of its life cycle
- The mechanical engineering practices to be employed at the site; and
- The competency required by workers in order to safely work on plant and structures at the site.

SCSO-MEMP-001 controls maintenance tasks, corrective tasks, spares requirements and life cycle forecasts for the equipment given a defined operating context including;

- Any machinery, equipment, appliance, container, implement and tool;
- Any component of any of those things; and
- Anything fitted or connected to any of those things.

SCSO-MEMP-001 consolidates specific controls for the identified risks via a range of ore Standards, Protocols and Procedures including;

- Standards of mechanical Engineering Practice (SCSO-MEMS-001)
- Mechanical Maintenance and Safety Inspection Standard (SCSO-MEMS-002)
- Defect Management Standard (SCSO-MEMS-003)
- Wheel Management Standard (SCSO-MEMS-004)
- Hot Work Management Standard (SCSO-MEMS-005)
- Lifting and Towing Management Standard (SCSO-MEMS-006)
- Controlled Work Area Management Standard (SCSO-MEMS-007)
- Fluid Power Management Standard (SCSO-MEMS-008)
- Plant Lifecycle Standard (SCSO-MEMS-009)
- Diesel Emissions Standard (SCSO-MEMS-010)
- Conveyor Standard (SCSO-MEMS-011)
- Mobile Plant Management Standard (SCSO-MEMS-012)
- Energy Control Management Standard (SCSO-MS-014)
- High pressure Fluid Injection Management Standard (SCSO-MS-017)
- Hazardous Substances Management Standard (SCSO-MS-023)
- Change Management Standard (SCSO-MS-025)

- Introduction of Plant to Site – Long Term (SCSO-AF-005)
- Introduction of Plant to Site – Short Term (SCSO-AF-010)
- Multi Work Permit (SCSO-PF-0001)
- Safe Work Procedures listed on Lotus Notes (controlled documents)

11.2 Maintenance Processes related to Noise Mitigation Measures

The WCS Maintenance processes specific to Noise Mitigation Measures implemented on site (installation of low noise idlers) for the identification and scheduling of maintenance is summarised below;

- An inspection is completed of the entire overland system on a daily basis.
- The inspection includes specific elements to identify noisy or defected conveyor idlers and rollers.
- All identified defects (including noisy or excessive noise from conveyor idlers and rollers) are recorded on the inspection form.
- Defect identified conveyor idlers and rollers are tagged for further investigation or replacement on a daily basis at the time of the inspection.
- Completed daily inspection reports (including all tagged conveyor idlers and rollers tag stubs) are returned and reviewed by the WCS Site Supervisor on a daily basis.
- All defected conveyor idlers and rollers (including noise defects) are identified for maintenance (typically replacement) at the next available opportunity.
- All defected items (including noise defects) recorded from the daily overland inspection are tabled at the daily WCS production meeting for determination and scheduling of actions to remediate defects.
- WCS undertake a weekly defect planning meeting where defects across the operation (including noise related defects) are scheduled for maintenance.
- WCS undertakes a maintenance day across the operations weekly (each Thursday).
- WCS undertakes a rolling 3 week maintenance program across the operational areas that include overland conveyor areas, Washery areas, and other identified maintenance areas.
- WCS undertakes opportunistic maintenance pending operational and other risk based constraints.
- Maintenance is scheduled for items in accordance with the severity of defect, efficiencies in maintenance, and in accordance with identified risk based constraints.
- Low noise idlers are specifically targeted for replacement each maintenance window and are scheduled as a priority item.

Maintenance scheduling at WCS is conducted in a dynamic nature with both proactive and reactive maintenance undertaken pending the identified defect / maintenance issue.

12. Community Consultation

Springvale Coal commits to implementing an ongoing community consultation process to inform and update stakeholders on Noise Reduction Study actions and resulting mitigated outcomes.

Following the completion of modelling and validation of implemented measures as detailed in Section 9.0 above, Springvale Coal will report outcomes as listed below;

- **Potentially affected residents:**
 - Provided information will include summaries of works completed and the modelled results.
 - This information will be via letter with the opportunity to make contact with a representative of the project.
- **Western Regional Community Consultative Committee (CCC):**
 - A report will be provided at each Western Region CCC meeting and will include the works completed and the most up to date modelled results.
- **Centennial Coal Website:**
 - An update on the works program and modelled results will be updated at each stage of the program and published on the website.
- **Newspaper notification:**
 - A six (6) monthly community update will be placed in the Lithgow Mercury and Village Voice outlining the progress of the works program, results achieved and project contact details.

This consultation program will be managed by the Centennial Group Manager – Stakeholder Engagement.

13. Reporting

Within 6 months of the noise mitigation strategies identified in this Noise Reduction Study being implemented, a Noise Reduction Study Completion Report will be provided to the Secretary of the Department of Planning and Environment that summarises the actions implemented and the noise reductions gained as a result. The provision of this report to the Secretary will highlight the practical completion of all commitments made within this Noise Reduction Study.

14. Government Consultation

The draft Noise Reduction Study was provided to the EPA for review and comment on 26 February 2018.

Feedback draft Noise Reduction Study from the EPA was received on 1 March 2018.

As detailed in the correspondence from the EPA dated 1 March 2018, it was identified that Springvale Coal include a monitoring location in the vicinity of 70 Skelly Road to monitor performance of the Overland Conveyor previously identified as audible at this location.

Subsequent to the EPA feedback, a monitoring location (WRNMS6) was included in the Overland Conveyor – Noise Reduction Study Noise Monitoring Program located at receptor L23 and be representative of receptors L24, L25, L27, L31, L32 as illustrated in Figure 4 above.

A copy of consultation received from the EPA is provided below.

Feedback from the Department of Planning and Environment on the Noise Reduction Study was received on 19 July 2018. **Table 7** below summarises how this feedback has been addressed.

Table 7 – DPHI Feedback and Response

Feedback	Response
It is recommended that Section 4 be updated to include all controls and management strategies described in the Statement of Commitments in the Western Coal Services Project – Modification 2 Statement of Environmental Effects including controls within Section 7.1.9.2.	Additional commitments, relevant to the overland conveyor system and SCSS that were detailed in the Western Coal Services MOD 2 Statement of Environmental Effects have been incorporated throughout this Noise Reduction Study. Other commitments relevant to the haul roads or ongoing monitoring are addressed within the Western Coal Services Site Specific Appendix to the Western Region Noise Management Plan (Appendix F1).
Please confirm if site based NMP would need to be updated as part of commencing the study.	No changes to the Western Coal Services site specific appendix of the Western Region Noise Management Plan (Appendix F1) is required as a result of this Noise Reduction Study commencing.



Your reference :
Our reference : EF13/3625; DOC18/116339-01
Contact : Mr Allan Adams; (02) 6332 7610

Mr Neil Thompson
Environment and Community Coordinator
Springvale Coal Services
PO Box 198
Wallerawang NSW 2845

1 March 2018

CC. Mr Paul Williams

Dear Mr Thompson

Re. Western Coal Services – Noise Reduction Study

I refer to your letter dated 26 February 2018 providing the Environment Protection Authority (EPA) with the opportunity to comment on the Western Coal Services – Noise Reduction Study; this study being an excerpt from the draft Western Region Noise Management Plan 2018. The EPA acknowledges that the development of these plans in consultation with the EPA is a general requirement of the development consent for each mine.

As a management tool, such plans and programs should assist Western Coal Services (Centennial) in meeting their commitment to statutory compliance and wider environmental management, and where appropriate should be integrated with other operational or management plans. The EPA therefore encourages the development of Environmental Management Plans and Programs to ensure that licensees have determined how they will meet their statutory obligations and environmental objectives as specified by the consent and/or the conditions of environment protection licence 3607 (the licence). However, the EPA does not review these plans/programs (unless in circumstances deemed necessary) as the role of the EPA is to establish and regulate against environment protection and management criteria, not to become directly involved in the development of plans and strategies to comply with such criteria.

With regards to this Noise Reduction Study, the EPA has reviewed the document and suggests that an additional noise monitoring location be positioned within proximity to 70 Skelly Road, being the most southern property on Skelly Road. The EPA acknowledges that this location is within proximity to S3 (EPL i.d. no 13), being an existing monitoring location related to Springvale Coal Mine. However, the EPA has identified that from the above suggested location on Skelly Road the conveyor is audible, and therefore should be identified as a monitoring location.

Should you have any further enquiries in relation to this matter please contact Mr Allan Adams at the Central West (Bathurst) Office of the EPA by telephoning (02) 6332 7610.

Yours sincerely

A handwritten signature in black ink, appearing to read 'Darryl Clift'.

DARRYL CLIFT
Head Central West Unit
Environment Protection Authority



Resource Assessments

Contact: Stephen Shoesmith

Phone: (02) 9274 6164

Email: stephen.shoesmith@planning.nsw.gov.au

Mr James Wearne
Group Manager Approvals
Western Region – Centennial

Via Email to: James.Wearne@centennialcoal.com.au

Dear Mr James Wearne

**Western Region - Centennial SSD 5579
Approval – Noise Management Plan**

I refer to your submission, seeking the Secretary's review and approval of the Noise Management Plan (NMP), incorporating the Noise Reduction Strategy (NRS) for Centennial's Western Coal Services.

The Department has reviewed the revised version of the NMP (Revision 3), and is satisfied that it addresses the requirements of Condition 8 and 9, Schedule 3 of Development Consent SSD 5579.

Accordingly, the Secretary approves the revised plans. Please ensure that a copy of the approved plans are placed on your website as soon as possible.

If you require further information, please contact Stephen Shoesmith on (02) 9274 6164 or by email to stephen.shoesmith@planning.nsw.gov.au.

Yours sincerely

Clay Preshaw
Director
Resource and Energy Assessments
as nominee of the Secretary



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