



Centennial Coal



Noise Management Plan

Springvale Colliery

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1 Introduction

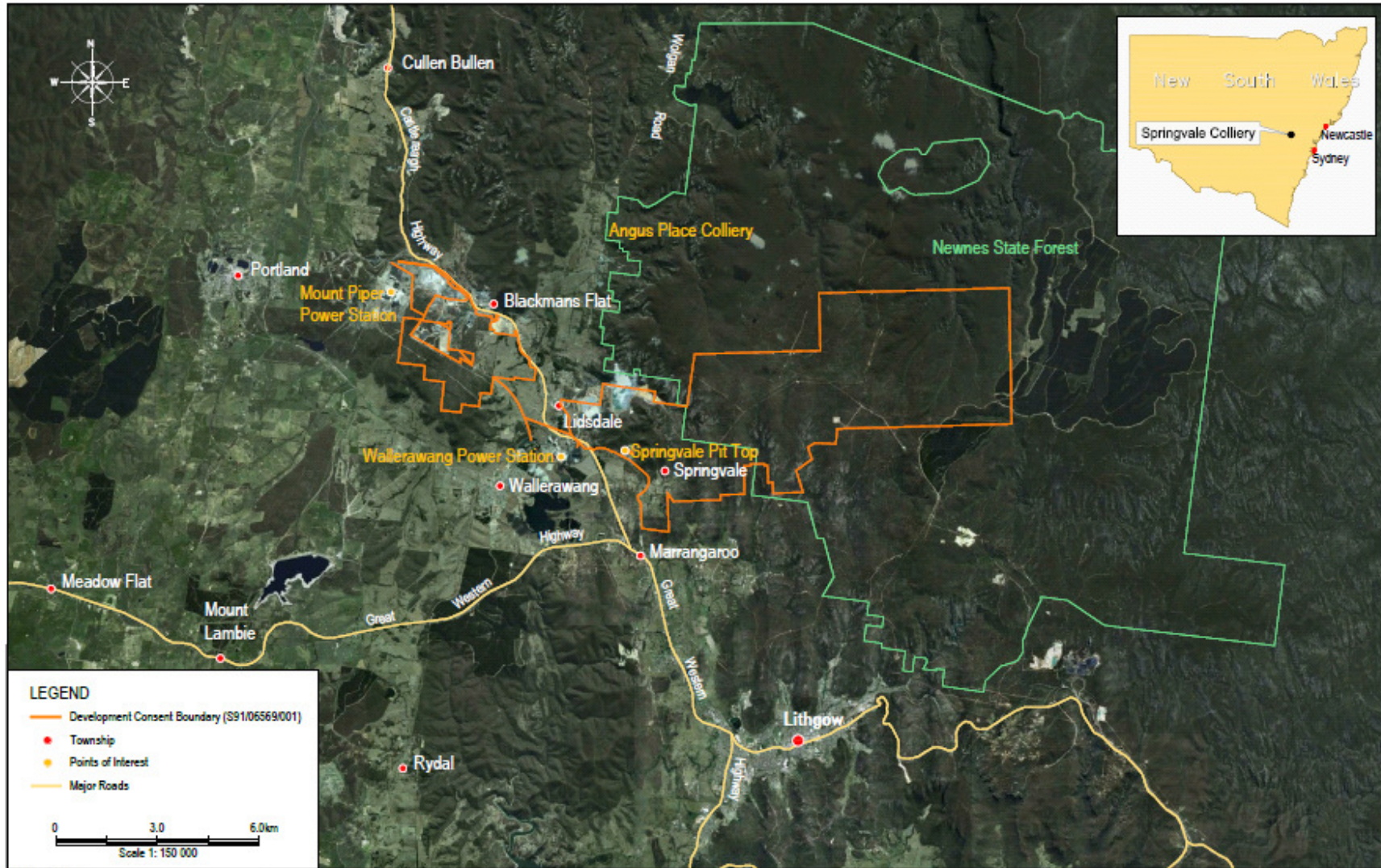
Springvale Mine has recently received Project Approval DA 11/92 dated October 2013 from the NSW Department of Planning and Infrastructure for continued operations up to September 2015 (Appendix 1). This Project Approval covers current mining and production of up to 4.5 Mtpa (million tonnes per annum) of product coal.

To satisfy Condition 22A , Schedule 1 of DA 11/92 dated October 2013, Springvale Mine are required to prepare and implement a Noise Management Plan (NMP) for the project. This NMP has been developed in accordance with the conditions of consent specified in Table 1 . The table summarises the requirements of Springvale Mine development consent conditions and the section of the NMP where the consent condition has been addressed.

1.1 Purpose

The noise management plan shall measure the performance of the site during the progressive implementation of noise mitigation measures.

Figure 1 Regional site plan



2 Statutory Requirements

2.1 Project Approval Requirements

Table 1 Project Approval Requirements

Condition	Requirement	Section
22A	<p>Noise Management Plan</p> <p>The Applicant shall prepare and implement a Noise Management Plan for the development to the satisfaction of the Director-General.</p> <p>This plan must:</p> <p>(a) be prepared in consultation with the EPA, and submitted to the Director-General for approval by 28 February 2014, unless otherwise agreed by the Director-General;</p> <p>(b) describe the proposed noise management system in detail;</p> <p>(c) include a monitoring program that uses quarterly attended monitoring to evaluate the acoustic performance of the development; and</p> <p>(d) include a program of noise mitigation actions and/or works to reduce noise emissions from the Springvale Pit Top facilities that includes:</p> <p>installation of improved mufflers and reversing alarm on the stockpile dozer;</p> <p>use of flashing reversing warning signals for use during the night for the stockpile dozer;</p> <p>restriction of the stockpile dozer to the use of second gear while reversing;</p> <p>improved inspection conveyor idlers, and consequent prompt replacement of defective idlers identified by these inspections;</p> <p>installation, prior to the end of December 2014, of effective noise attenuation measures for the Run of Mine conveyor drive building</p>	<p></p> <p></p> <p></p> <p></p> <p>7</p> <p>7</p> <p>6</p>

2.2 Statement of Commitments

Table 2 Statement of Commitments

Statement of Commitments	Section
<p>The following noise mitigation and management will be implemented on-site to reduce existing noise emissions:</p> <ul style="list-style-type: none"> ▪ Installation of noise attenuating mufflers on the stockpile dozer. ▪ Installation of "quacker" reverse alarms on the stockpile dozer during the daytime and use of a flashing light warning signal during the night-time to replace the existing reverse beeper. ▪ Restricted (gear box limited) the stockpile dozer to second gear (low speed) while reversing to reduce track slap. ▪ Regular (weekly) inspection of conveyor idlers and prompt replacement of damaged or highly worn idlers during maintenance. ▪ Cladding the southern wall of the ROM conveyor drive building or installation of adjacent noise barrier (within 12 months of approval). 	6
<p>Within six months of approval of the modification, and following the implementation of the noise mitigation and management measures, Springvale Coal will conduct a review to quantify the effectiveness of the noise monitoring or mitigation measures. This review will incorporate an investigation into the feasibility and effectiveness of implementing a real-time noise monitoring program. Any additional noise monitoring or mitigation measures required as a result of that review will be implemented.</p>	6

2.3 Development Consents

Table 3 Development Consents

Document and Authority	Ref No.	Description	Issue/Consent Date	Duration Expiry
Initial Development Consent (DoP/Council)	11/92	Construction & operation of an underground coal mine, Construction & operation of an overland conveyor and Washery	27/7/1992	September 2014
Amendment to initial DC 11/92 (DoP/Council)	11/92	Modifications to pit top layout, storm water control, new mine entry, relocation of mine ventilation shafts, extension of existing Pacific Power road to access shafts, use of existing WMC Washery & relocation of conveyor route	29/6/1993	Enacted
Amendment to initial DC 11/92 (DoP/Council)	11/92	Attachment "A" (the land description) replace with Attachment 1 Schedule of Land and Tenements.	11/4/1994	Enacted
Wallerawang Power Station Conveyor DA	326/02	Construction and Operation of a Coal Conveyor – Castlereagh Highway to Wallerawang Power Station	20/9/2002	Enacted
No. 3 Ventilation Shaft DA	461/02	Construction and Operation of a Ventilation Shaft Facility- Newnes Plateau Modification of DA for ventilation upgrade	23/1/2003 30/05/2012	Enacted
Longwall mining in 415 -417	2011/5949	EPBC Approval of mining LW 415-LW417	14/3/2012	19/2/2032
Bore 8 Dewatering Facility	11/92 (Mod 3)	Construction and Operation of a dewatering facility (Section 75 W Modification)	8/3/2013	Enacted
Modification to Development Consent DA11/92	11/92 (Mod 4)	Extension of Mining Operations until 30 September 2015.	5/12/2013	30/09/2015

2.4 Environmental Protection Licence 3607

As a scheduled premise, Springvale operates with an Environmental Protection Licence (EPL) issued by the Environment Protection Authority (EPA) under the Protection of the Environment Operations Act 1997 (POEO Act).

The Environmental Protection Licence No. 3607 details the following limits with respect to noise emissions (Appendix 2):

L4.1 Noise from the upcast ventilation shaft must not exceed an LAeq (15 minute) noise emission criterion of 35 dB(A), except as expressly provided by this licence.

L4.2 Noise from the premises is to be measured or computed at the nearest or most affected residence to determine compliance with condition L4.1.

L4.3 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.

3 Sensitive Receivers

The locations of residences within and in the vicinity of the Project Application Area are shown in Figure 2. The nearest potentially affected receiver locations with respect to the Springvale Mine are detailed in Table 2. Residential receivers are also located in Lidsdale (L1 and L2) and Wallerawang (W1 and W2); however, these receivers are significantly further from the Springvale Mine than those detailed in Table 2.

Table 4 Locations of Nearest Residential Receivers to Springvale Mine Pit Top

Receptor	Easting	Northing	Zone	Elevation	Approximate Distance to Nearest Site Component
S1	230,230 m E	6,299,725 m S	56H	905 m	750 m (Springvale Mine pit top)
S2	230,456 m E	6,299,541 m S	56H	910 m	700 m (Springvale Mine pit top)
S3	228,775 m E	6,301,089 m S	56H	880 m	2.1 km (Springvale Mine pit top)
S4	231,589 m E	6,299,387 m S	56H	915 m	930 m (Springvale Mine pit top)
S5	232,009 m E	6,299,182 m S	56H	940 m	1.4 km (Springvale Mine pit top)

In addition to the residential locations identified in Table 2, components of the Springvale Mine are located within the Newnes State Forest. This is an area of the Newnes State Forest that is used for recreational purposes such as walking and camping. The locations of the nearest sensitive areas have been identified with reference to the Blue Mountains Conservation Society and Colong Foundation for Wilderness “Places to Visit on the Newnes Plateau” (June 2009) and are provided in Table 5.

It should also be noted that any of the roads or tracks within or surrounding the Project Application Area (PAA) could potentially be utilised for recreational purposes.

Table 5 Approximate Location of Nearest Sensitive Receivers on Newnes Plateau

Receptor	Easting	Northing	Zone	Elevation	Approximate Distance to Nearest Site Component
NF1	239,483 m E	6,300,390 m S	56H	1165 m	1.9 km (Bore 10 site)
NF2	237,015 m E	6,298,782 m S	56H	1030 m	2.4 km (Shaft 3 site)
NF3	243,358 m E	6,295,836 m S	56H	1100 m	6.3 km (Bore 10 site)
NF4	245,304 m E	6,297,921 m S	56H	970 m	5.4 km (Bore 10 site)
NF5	242,528 m E	6,303,041 m S	56H	1080 m	1.9 km (Bore 10 site)
NF6	243,182 m E	6,304,671 m S	56H	1045 m	2.6 km (Bore 9 site)
NF7	242,516 m E	6,307,266 m S	56H	925 m	3.9 km (Bore 8 site)
NF8	238,709 m E	6,308,496 m S	56H	1110 m	4.5 km (Bore 8 site)
NF9	235,079 m E	6,309,656 m S	56H	1030 m	7.3 km (Bore 8 site)

The nearest potentially project affected receivers are presented in Figure 2.

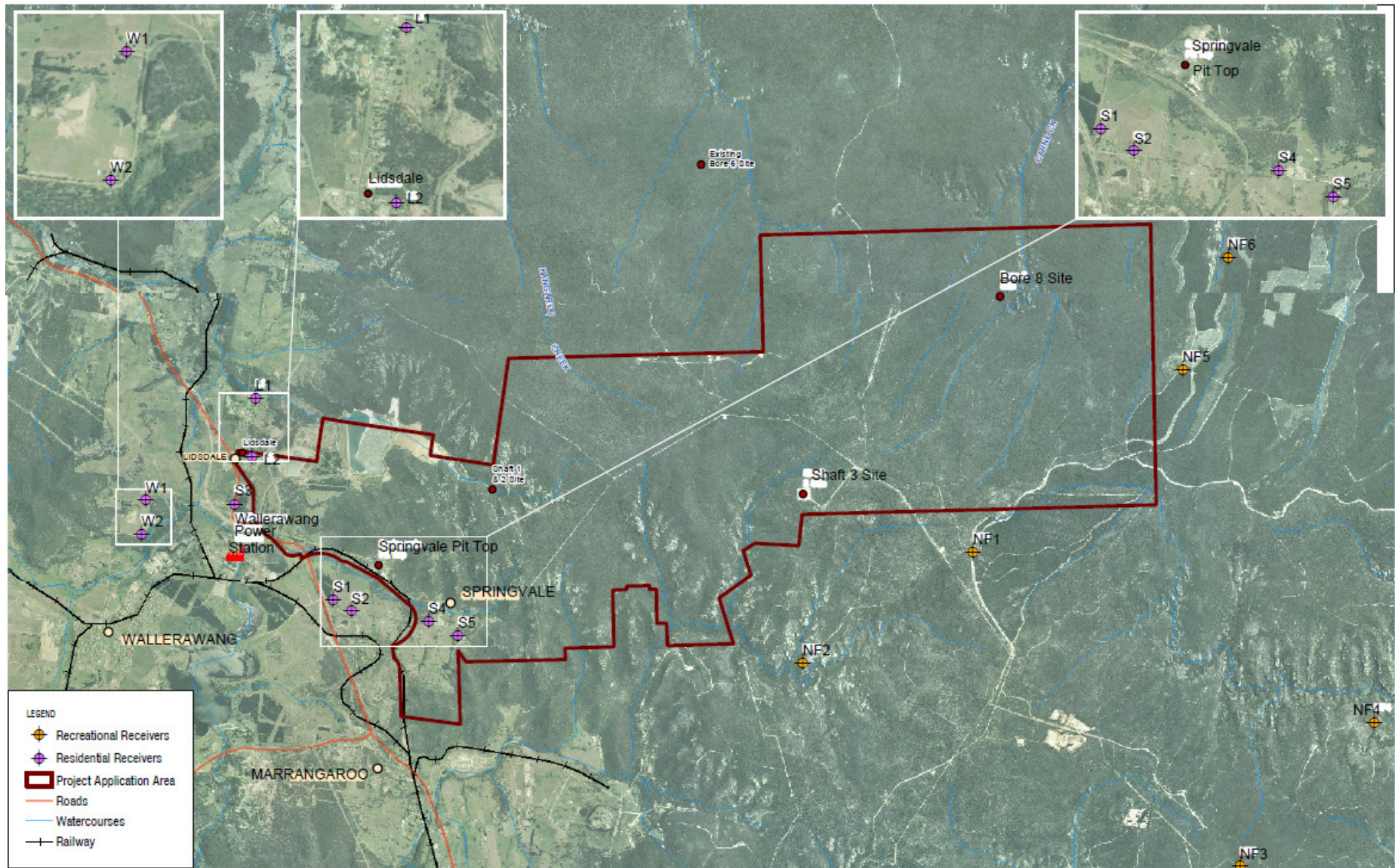


Figure 2 Sensitive receptor locations

4 Noise Goals

4.1 Operational Project Specific Noise Goals

The project specific noise goals were established for the Environmental Assessment (refer Section 75W Modification to Development Consent DA 11/92 dated October 2013). The noise goals are reproduced in Table 6.

Table 6 Operational Project Specific Noise goals

Location	Period	Adopted RBL	Intrusiveness Criteria LAeq(15minute) (dBA)	Amenity Criteria LAeq(period) (dBA)	Project Specific Noise Goal LAeq(15minute) (dBA)
S1	Day	40	45	55	45
	Evening	39	44	45	44
	Night	37	42	40	42
S2	Day	38	43	55	43
	Evening	38	43	45	43
	Night	38	43	40	43
S3	Day	45 ¹	50	53	50
	Evening	45 ¹	50	41 ^{2,3}	41
	Night	45 ¹	50	41 ^{2,3}	41
S4 and S5	Day	30	35	55	35
	Evening	30	35	45	35
	Night	30	35	40	35
NF1 to NF9	When in use	N/A	N/A	50	50

Note 1 - Background noise levels adjusted in accordance with the INP Application notes to reflect community expectations that background noise levels will not be higher than daytime during evening and night periods. Note 2 - Amenity criteria adjusted for existing industrial contribution as per INP. Note 3 – Existing industrial contribution unlikely to reduce.

4.2 Sleep Disturbance Project Specific Noise Goals

The sleep disturbance noise emission goals were established for the Environmental Assessment titled Section 75W Modification to Development Consent DA 11/92 dated October 2013. The goals are reproduced in Table 7.

Table 7 Sleep Disturbance Noise Goals

Assigned Residential Location Number	Period	Project Specific Noise Goal. LA1(1minute) (dBA)
S1	Night	52
S2		53
S3		60
S4 and S5		45
NF1 to NF9		N/A

5 Existing Acoustic Environment

5.1 Unattended Continuous Noise Monitoring

A summary of the measured Rating Background Levels (RBLs) during the quarterly noise monitoring surveys are presented in Table 8, Table 9 and Table 10 for the daytime, evening and night time periods respectively (conducted by SLR).

Table 8 Measured Background Noise Levels LA90 dBA Daytime

Location	Sept 2012	Jun 2012	Mar 2012	Dec 2011	Sept	Jun 2011	Mar 2011	Dec 2010
S1	43	43	41		44	45	42	45
S2	41	42	40	38	41	43	41	42
S3	48	50	42	44	45	50	47	45

Table 9 Measured Background Noise Levels LA90 dBA Evening

Location	Sept 2012	Jun 2012	Mar 2012	Dec 2011	Sept	Jun 2011	Mar 2011	Dec 2010
S1	44	44	41		46	43	44	43
S2	42	43	40	38	43	41	42	39
S3	41	41	46	45	41	51	51	47

Table 10 Measured Background Noise Levels LA90 dBA Night time

Location	Sept 2012	Jun 2012	Mar 2012	Dec 2011	Sept	Jun 2011	Mar 2011	Dec 2010
S1	41	43	39		45	40	41	42
S2	42	41	40	39	44	40	41	40
S3	52	50	45	46	51	50	49	47

5.2 Operator Attended Noise Monitoring

In order to determine existing ambient noise levels surrounding the site, SLR has conducted background noise monitoring on a quarterly basis since December 2010. The background noise monitoring consisted of continuous, unattended noise logging and operator attended noise surveys.

The operator attended noise surveys were used to define existing noise sources (including Springvale) and the character of noise in the area and also used to qualify unattended noise logging results.

Background noise monitoring was conducted at the locations S1, S2 and S3 as presented in Figure 2.

In order to supplement the unattended logger measurements and to assist in identifying the character and duration of the noise sources, operator attended daytime, evening, and night time surveys were also conducted at each noise logging location. The operator attended measurement results are summarised in Table 11.

Table 11 Quarterly Operator Attended Noise Monitoring Results

	Measured LA90 (15minute) All Noise Sources			Estimated LAeq(15minute) Springvale Mine Pit Top Noise Only		
	Day	Evening	Night	Day	Evening	Night
S1	44, 48, 46, 47, 41, 44, 46, 48	45, 45, 43, 46, 39, 37, 46, 46	41, 43, 45, 39, 38, 36, 46, 50	39, 38, 42, 41, 40, 34, 32, 43	42, 35, 40, 44, 41, 40, 42, 44	42, 36, 42, 40, 39, 41, 38, 46
S2	42, 46, 44, 44, 41, 42, 44, 46	44, 45, 40, 47, 38, 40, 43, 47	44, 46, 44, 46, 40, 40, 41, 46	40, 35, 43, 43, 41, 40, 43, 46	45, 41, 42, 46, 41, 39, 39, 46	45, 45, 42, 47, 41, 42, 42, 45
S3	50, 51, 51, 50, 46, 48, 52, 55	46, 50, 54, 51, 49, 36, 51, 49	42, 53, 54, 54, 51, 42, 51, 51	<30, <30, <30, <30, <30, <30, <30	<30, <30, <30, <30, <30, <30, <30	<30, <30, <30, <30, <30, <30, <30

Results are from December 2010 to September 2012

Noise Monitoring Summary

Location S1

This location represents receptors located on the western end of Springvale Lane near the Castlereagh Highway (Location S1 as presented in Figure 2). Springvale Colliery surface operations are generally audible during the daytime, evening and night time at this location.

As presented in Table 11 the Springvale Colliery noise contribution has been estimated to vary between 32 dBA and 46 dBA during the operator attended noise surveys from December 2010 to September 2012. The major noise contributors from Springvale identified during the surveys include the on site compressor, the coal preparation plant and the stockpile dozer. Noise levels at Location S1 are also impacted by road traffic on the Castlereagh Highway and industrial noise from the Wallerawang Power Station.

Location S2

This location represents receptors located on the eastern end of Springvale Lane (Location S2 as presented in Figure 2). Springvale Colliery surface operations are generally audible during the daytime, evening and night time at this location. As presented in Table 11 the Springvale Colliery noise contribution is estimated to be between 35 dBA and 47 dBA. The major Springvale noise contributors identified during the surveys include the onsite compressor, the coal preparation plant and the stockpile dozer. Noise levels at Location S2 are also impacted by road traffic on the Castlereagh Highway and industrial noise from the Wallerawang Power Station.

Location S3

Noise levels at this location are influenced by road traffic on the Castlereagh Highway and Wolgan Road. As this location is significantly distanced from the Springvale Mine pit top site, operations are not audible at this location and are likely to contribute less than 30 dBA.

Noise levels at Location S2 are dominated by road traffic on the Castlereagh Highway and industrial noise from the Wallerawang Power Station and Springvale Coal Services overland conveyor.

5.3 Predicted Noise Emissions

The predicted operational noise levels for the project were established for the Environmental Assessment titled Section 75W Modification to Development Consent DA 11/92 dated October 2013). The predicted levels are reproduced in Table 12.

Table 12 Predicted Operational Noise Levels

Location	Period	Predicted Noise Level LAeq(15minute) (dBA)		Project Specific Noise Criteria (LAeq,15min)
		Calm	Temperature Inversion	
S1	Day	44	N/A	45
	Evening	44	N/A	44
	Night	44	46	42
S2	Day	43	N/A	43
	Evening	43	N/A	43
	Night	43	46	43
S3	Day	<30	N/A	50
	Evening	<30	N/A	41
	Night	<30	<30	41
S4	Day	<30	N/A	35
	Evening	<30	N/A	
	Night	<30	30	
S5	Day	<30	N/A	
	Evening	<30	N/A	
	Night	<30	<30	
NF1	Day	<30	N/A	50
	Evening	<30	N/A	
	Night	<30	33	
NF2 to NF9	Day	<20	N/A	
	Evening	<20	N/A	
	Night	<20	<20	

As presented in Table 12, operational noise levels from Springvale mine operations are predicted to exceed the project specific noise goals at locations S1 and S2 by up to 4 dBA.

Noise levels are significantly below the project specific noise goals at all other receiver locations.

5.4 Summary of Noise Emissions

As indicated above, operational noise levels are both measured and predicted to meet the project specific noise criteria at all locations with the exception of an exceedence of up to 4 dBA at locations S1 and S2 under calm and adverse meteorological conditions during the night time period.

Predicted exceedences are due to existing Springvale Mine pit top activities and the noise levels are consistent with the existing Springvale noise contribution measured during the operator attended noise surveys conducted by SLR.

6 Noise Reduction Program

6.1 Project Specific Noise Reduction Measures

In order to progressively reduce noise emissions from the existing Springvale operations, Development Consent Condition 22 A(d) dated October 2013 requires a program of noise mitigation actions and/or works to reduce noise emissions from the Springvale Pit Top facilities that includes:

- installation of improved mufflers and reversing alarm on the stockpile dozer;
- use of flashing reversing warning signals for use during the night for the stockpile dozer;
- restriction of the stockpile dozer to the use of second gear while reversing;
- improved inspection conveyor idlers, and consequent prompt replacement of defective idlers identified by these inspections;
- installation, prior to the end of December 2014 of effective noise attenuation measures for the Run of Mine conveyor drive building to the satisfaction of the Director-General.

Following the implementation of the noise mitigation and management measures, Springvale Coal will conduct a review to quantify the effectiveness of the noise mitigation and management measures.

This review will incorporate an investigation into the feasibility and effectiveness of implementing a real-time noise monitoring program. Any additional noise monitoring or mitigation measures required as a result of that review will be implemented.

6.2 Best Practice Noise Control Measures

The following best practice control measures shall be implemented on the Springvale Pit Top.

- Continued noise monitoring on site and within the community.
- For equipment with enclosures (ie compressor rooms, conveyor drives) ensure door and seals are well maintained and kept closed when not in use.
- Keep plant and equipment well maintained, regular inspection and maintenance of equipment to ensure it is good working order and operating at the lowest feasible noise level.
- Equipment not to be operated until it is maintained or repaired.
- Regularly train workers (ie toolbox talks) to use equipment in ways to minimise noise.
- Operate mobile plant in a quiet, efficient manner.
- Switching off vehicles and plant when not in use.
- Incorporate clear signage at the site including relevant contact numbers for community enquiries.
- Prompt response to any community issues of concern.

6.3 Alarms

Statutory requirements state that warning alarms and sirens must be “clearly audible”. A review of site alarms will be undertaken to ensure offsite impacts can be minimised without compromising safety standards or OH&S requirements.

7 Noise Monitoring

7.1 Overview

The Noise Monitoring Program has been developed in consultation with the EPA . The monitoring program is designed to ensure that noise is measured at representative locations in the vicinity of the Project Site. Data from the monitoring program will be used to determine the noise performance of Springvale mine operations and to determine the effectiveness of the noise reduction program in mitigating noise emissions from Springvale pit top operations at the nearest residential receiver locations.

7.2 General Requirements

The noise measurement procedures employed throughout the monitoring program shall be guided by the requirements of AS 1055 1997 “Acoustics - Description and Measurement of Environmental Noise” and the NSW Industrial Noise Policy.

Noise monitoring should be conducted on a quarterly basis and consist of operator attended noise monitoring.

Noise measurements required in accordance with the NMP should be undertaken by a suitably qualified and experienced acoustic professional. The noise measurement procedures employed throughout the monitoring programme should be guided by the requirements of AS 1055 1997 Acoustics - Description and Measurement of Environmental Noise. Noise generated by the project is to be measured in accordance with the relevant procedures and exemptions (including meteorological conditions) in the NSW Industrial Noise Policy (EPA, 2000).

All acoustic instrumentation employed throughout the monitoring program shall meet with the requirements of AS IEC 61672.1 – 2004 Electroacoustics- Sound level meters - Specifications and carry current NATA and manufacturer calibration certificates. Instrument calibration shall be checked before and after each measurement survey, with the variation in calibrated levels not exceeding ± 0.5 dBA.

Portable sound level meters used for operator attended noise monitoring should be capable of conducting real time third octave analysis.

7.3 Operator Attended Noise Surveys

Operator attended noise surveys shall be conducted during the daytime, evening and night-time periods at the most potentially affected residential receiver locations. Noise monitoring will quantify noise emissions and estimate the LAeq noise contribution from the Springvale Mine as well as the overall ambient noise level.

The operator shall quantify and characterise the maximum (LAmax), the energy equivalent (LAeq) and background (LA90) noise levels from ambient noise sources and mining operations over a 15 minute measurement period.

During attended monitoring, digital recordings will be conducted to allow for additional post analysis of the mine contributed LAeq(15minute) and LA1(1minute) noise levels and to assist in source identification.

All noise measurements shall be accompanied by both qualitative description (including cloud cover) and quantitative measurements of prevailing local weather conditions throughout the survey period.

It is intended that noise monitoring will involve noise measurements at the following locations identified in Figure 2:

- Location S1;
- Location S2.

7.4 Plant and Equipment Observations and Log

During the attended noise measurements, the operator shall record any significant mine generated noise sources (i.e. washery, dozers, etc). In addition, the operator shall obtain copies of the relevant fixed plant and mobile equipment mining operating shift logs to be included in the noise monitoring report.

8 Reporting

8.1 Noise Monitoring Report

A summary of the noise monitoring results will be presented as required at Springvale Mine's Community Consultative Committee and will also be available to the public via the Springvale Mine website. Complaints data will also be reported in the Annual Environmental Management Report.

Quarterly reports should consist of the following information:

- Summary of all attended noise monitoring results;
- Measured/calculated and/or operator estimated Springvale mine LAeq(15minute) contributed noise levels for each monitoring location;
- Measured/ calculated and/or operator estimated Springvale mine LA1(1minute) contributed noise levels for each monitoring location;
- Details of any noise mitigation and management measures implemented during the monitoring period;
- Statement of noise performance in comparison to project specific noise goals and predicted noise levels presented in the EA; and
- Details of any complaints relating to noise and their state of resolution.

9 Protocol For Managing Complaints

9.1 Complaints Handling

Springvale Mine shall manage complaints in accordance with condition M5 in the Environmental Protection Licence 3607.

The record must include details of the following:

- a) the date and time of the complaint;
- b) the method by which the complaint was made;
- c) any personal details of the complainant which were provided by the complainant or, if no such details were provided, a note to that effect;
- d) the nature of the complaint;
- e) the action taken by the licensee in relation to the complaint, including any follow-up contact with the complainant; and
- f) if no action was taken by the licensee, the reasons why no action was taken.

Appendix 1 Project Approval

Notice of Modification

Section 75W of the *Environmental Planning and Assessment Act 1979*

As delegate for the Minister for Planning and Infrastructure, the Planning Assessment Commission of New South Wales (the Commission) modifies the consent referred to in schedule 1, subject to the conditions in schedule 2.



Gabrielle Kibble AO
Chair of the Commission

Sydney

5 December 2013

SCHEDULE 1

Consent granted by the Minister for Planning on 27 July 1992 in respect of development application DA 11/92 made by Clutha Coal Pty Limited, on behalf of Springvale Coal Pty Limited ("the Applicant"), for the construction and operation of an underground coal mine, overland conveyor and coal preparation facilities, known as Springvale Coal Mine.

SCHEDULE 2

1. In condition 1 of schedule 2, delete all words after "Statement of Commitments;" and insert the following:
 - e) the Environmental Assessment titled *Section 75W Modification to Development Consent DA 11/92*, dated October 2013; and
 - f) conditions of this consent.
2. Delete condition 2 of schedule 2 and replace with the following:

"The Applicant may carry out mining operations until 30 September 2015."

Note: Under this consent, the Applicant is required to rehabilitate the site and perform additional undertakings to the satisfaction of both the Director-General and the Executive Director Mineral Resources. Consequently, this consent will continue to apply in all other respects other than the right to conduct mining operations until the rehabilitation of the site and these additional undertakings have been carried out satisfactorily.

3. After condition 22 of Schedule 2, insert the following:

22A. Noise Management Plan

The Applicant shall prepare and implement a Noise Management Plan for the development to the satisfaction of the Director-General. This plan must:

- (a) be prepared in consultation with the EPA, and submitted to the Director-General for approval by 28 February 2014, unless otherwise agreed by the Director-General;
- (b) describe the proposed noise management system in detail;
- (c) include a monitoring program that uses quarterly attended monitoring to evaluate the acoustic performance of the development; and
- (d) include a program of noise mitigation actions and/or works to reduce noise emissions from the Springvale Pit Top facilities that includes:
 - installation of improved mufflers and reversing alarm on the stockpile dozer;
 - use of flashing reversing warning signals for use during the night for the stockpile dozer;
 - restriction of the stockpile dozer to the use of second gear while reversing;
 - improved inspection conveyor idlers, and consequent prompt replacement of defective idlers identified by these inspections;
 - installation, prior to the end of December 2014, of effective noise attenuation measures for the Run of Mine conveyor drive building,to the satisfaction of the Director-General.

End of Schedule 2

Appendix 2 Environmental Protection Licence

Environment Protection Licence



Licence - 3607

Licence Details

Number:	3607
Anniversary Date:	01-January

Licensee

SPRINGVALE COAL PTY LIMITED
 LEVEL 18, BT TOWER, 1 MARKET STREET
 SYDNEY NSW 2000

Premises

SPRINGVALE COLLIERY
 CASTLEREAGH HIGHWAY
 LIDSDALE NSW 2790

Scheduled Activity

Coal Works
 Mining for Coal

Fee Based Activity

Scale

Coal works	> 2000000-5000000 T handled
Mining for coal	> 2000000-3500000 T produced

Region

South - Bathurst
 Lvl 2, 203-209 Russell Street
 BATHURST NSW 2795
 Phone: (02) 6332 7600
 Fax: (02) 6332 7630
 PO Box 1388 BATHURST
 NSW 2795

Environment Protection Licence



Licence - 3607

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Information about this licence

Dictionary

A definition of terms used in the licence can be found in the dictionary at the end of this licence.

Responsibilities of licensee

Separate to the requirements of this licence, general obligations of licensees are set out in the Protection of the Environment Operations Act 1997 (“the Act”) and the Regulations made under the Act. These include obligations to:

- ensure persons associated with you comply with this licence, as set out in section 64 of the Act;
- control the pollution of waters and the pollution of air (see for example sections 120 - 132 of the Act); and
- report incidents causing or threatening material environmental harm to the environment, as set out in Part 5.7 of the Act.

Variation of licence conditions

The licence holder can apply to vary the conditions of this licence. An application form for this purpose is available from the EPA.

The EPA may also vary the conditions of the licence at any time by written notice without an application being made.

Where a licence has been granted in relation to development which was assessed under the Environmental Planning and Assessment Act 1979 in accordance with the procedures applying to integrated development, the EPA may not impose conditions which are inconsistent with the development consent conditions until the licence is first reviewed under Part 3.6 of the Act.

Duration of licence

This licence will remain in force until the licence is surrendered by the licence holder or until it is suspended or revoked by the EPA or the Minister. A licence may only be surrendered with the written approval of the EPA.

Licence review

The Act requires that the EPA review your licence at least every 5 years after the issue of the licence, as set out in Part 3.6 and Schedule 5 of the Act. You will receive advance notice of the licence review.

Fees and annual return to be sent to the EPA

For each licence fee period you must pay:

- an administrative fee; and
- a load-based fee (if applicable).

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The EPA publication “A Guide to Licensing” contains information about how to calculate your licence fees. The licence requires that an Annual Return, comprising a Statement of Compliance and a summary of any monitoring required by the licence (including the recording of complaints), be submitted to the EPA. The Annual Return must be submitted within 60 days after the end of each reporting period. See condition R1 regarding the Annual Return reporting requirements.

Usually the licence fee period is the same as the reporting period.

Transfer of licence

The licence holder can apply to transfer the licence to another person. An application form for this purpose is available from the EPA.

Public register and access to monitoring data

Part 9.5 of the Act requires the EPA to keep a public register of details and decisions of the EPA in relation to, for example:

- licence applications;
- licence conditions and variations;
- statements of compliance;
- load based licensing information; and
- load reduction agreements.

Under s320 of the Act application can be made to the EPA for access to monitoring data which has been submitted to the EPA by licensees.

This licence is issued to:

SPRINGVALE COAL PTY LIMITED

LEVEL 18, BT TOWER, 1 MARKET STREET

SYDNEY NSW 2000

subject to the conditions which follow.

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1 Administrative Conditions

A1 What the licence authorises and regulates

A1.1 This licence authorises the carrying out of the scheduled activities listed below at the premises specified in A2. The activities are listed according to their scheduled activity classification, fee-based activity classification and the scale of the operation.

Unless otherwise further restricted by a condition of this licence, the scale at which the activity is carried out must not exceed the maximum scale specified in this condition.

Scheduled Activity	Fee Based Activity	Scale
Coal Works	Coal works	> 2000000 - 5000000 T handled
Mining for Coal	Mining for coal	> 2000000 - 3500000 T produced

A2 Premises or plant to which this licence applies

A2.1 The licence applies to the following premises:

Premises Details
SPRINGVALE COLLIERY
CASTLEREAGH HIGHWAY
LIDSDALE
NSW 2790
ML 1303, ML 1323, ML 1326, ML1352, ML1537, ML1588, MPL314, EL6974, MLA326, A460, CCL 733, ML204, ML1319, ML564, CL394 AND CL361 AS SHOWN ON MAP TITLED 'FIGURE NO. 1 - PLAN OF OPERATIONS' PROVIDED TO THE EPA ON 4 SEPTEMBER 2009

A3 Information supplied to the EPA

A3.1 Works and activities must be carried out in accordance with the proposal contained in the licence application, except as expressly provided by a condition of this licence.

In this condition the reference to "the licence application" includes a reference to:

- the applications for any licences (including former pollution control approvals) which this licence replaces under the Protection of the Environment Operations (Savings and Transitional) Regulation 1998; and
- the licence information form provided by the licensee to the EPA to assist the EPA in connection with the issuing of this licence.

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2 Discharges to Air and Water and Applications to Land

P1 Location of monitoring/discharge points and areas

P1.1 The following points referred to in the table below are identified in this licence for the purposes of monitoring and/or the setting of limits for the emission of pollutants to the air from the point.

Air

EPA identification no.	Type of Monitoring Point	Type of Discharge Point	Location Description
8	Dust monitoring network		Dust deposition gauge monitoring network as shown on Springvale Coal's Figure 3.3.1 titled Dust Monitoring Locations, forwarded to the EPA on 20/6/01

P1.2 The following points referred to in the table are identified in this licence for the purposes of the monitoring and/or the setting of limits for discharges of pollutants to water from the point.

P1.3 The following utilisation areas referred to in the table below are identified in this licence for the purposes of the monitoring and/or the setting of limits for any application of solids or liquids to the utilisation area.

Water and land

EPA Identification no.	Type of Monitoring Point	Type of Discharge Point	Location Description
1	Discharge to waters Discharge quality monitoring Volume monitoring	Discharge to waters Discharge quality monitoring Volume monitoring	Overflow from Dam 3 at Springvale pit top labelled as LD001 on Springvale Coal's Diagram titled "Discharge Points LD001, LD002 & LD003", dated 18-November-99.
2	Discharge to utilisation area		Area labelled as LD002 on Springvale Coal's Diagram titled "Discharge Points LD001, LD002 & LD003", dated 18-November-99.
4	Discharge to waters Discharge quality monitoring Volume monitoring	Discharge to waters Discharge quality monitoring Volume monitoring	Emergency discharge point on unnamed creek leading to Wolgan River, labelled as LDP 004 on State Forest's Figure 3.2.4 titled 'Softwoods Region Occupation Permit No. 02349.
5	Discharge to waters Discharge quality monitoring Volume monitoring	Discharge to waters Discharge quality monitoring Volume monitoring	Emergency discharge point on unnamed creek leading to Wolgan River, labelled as LDP 005 on State Forest's Figure 3.2.4 titled 'Softwoods Region Occupation Permit No. 02349.
6	Discharge to waters Discharge quality monitoring Volume monitoring	Discharge to waters Discharge quality monitoring Volume monitoring	Drain from final filter lagoon at Western Main labelled as LD006 in Springvale Coal's Diagram titled Discharge Point LD006, dated 18-November-99.

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7	Discharge to waters Discharge quality monitoring	Discharge to waters Discharge quality monitoring	Duncan Street coal conveyor transfer drain from final filter lagoon at Western Main labelled as LD007 in Springvale Coal's Diagram titled as LD007, dated 18-November-99
9	Discharges to waters Discharge quality monitoring Volume monitoring	Discharges to waters Discharge quality monitoring Volume monitoring	Centennial's Springvale Water Transfer System bypass point east of Kerosene Vale Ash Dam.
10	Discharge to waters Discharge quality monitoring Volume monitoring	Discharge to waters Discharge quality monitoring Volume monitoring	Emergency/maintenance discharge from Centennial's Springvale Water Transfer Scheme upstream of the settling ponds.

Note: Licensed discharge points 4 (LD4) and 5 (LD5) are only to be used for emergency discharges as defined in condition E1.1.

3 Limit Conditions

L1 Pollution of waters

L1.1 Except as may be expressly provided in any other condition of this licence, the licensee must comply with section 120 of the Protection of the Environment Operations Act 1997.

L2 Concentration limits

L2.1 For each monitoring/discharge point or utilisation area specified in the table below (by a point number), the concentration of a pollutant discharged at that point, or applied to that area, must not exceed the concentration limits specified for that pollutant in the table.

L2.2 Where a pH quality limit is specified in the table, the specified percentage of samples must be within the specified ranges.

L2.3 To avoid any doubt, this condition does not authorise the pollution of waters by any pollutant other than those specified in the table.

L2.4 Water and/or Land Concentration Limits

POINT 1

Pollutant	Units of Measure	50 percentile concentration limit	90 percentile concentration limit	3DGM concentration limit	100 percentile concentration limit
Oil and Grease	milligrams per litre				10

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pH	pH	6.5-9.0
Total suspended solids	milligrams per litre	30

POINT 6

Pollutant	Units of Measure	50 percentile concentration limit	90 percentile concentration limit	3DGM concentration limit	100 percentile concentration limit
Oil and Grease	milligrams per litre				10
pH	pH				6.5-8.5
Total suspended solids	milligrams per litre				30

POINT 7

Pollutant	Units of Measure	50 percentile concentration limit	90 percentile concentration limit	3DGM concentration limit	100 percentile concentration limit
Oil and Grease	milligrams per litre				10
pH	pH				6.5-8.5
Total suspended solids	milligrams per litre				30

POINT 9

Pollutant	Units of Measure	50 percentile concentration limit	90 percentile concentration limit	3DGM concentration limit	100 percentile concentration limit
Aluminium (dissolved)	milligrams per litre				0.45
Arsenic	milligrams per litre				0.024
Boron (dissolved)	milligrams per litre				0.37
Conductivity	microsiemens per centimetre				1200
Copper (dissolved)	milligrams per litre				0.007

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Fluoride	milligrams per litre	1.8
Iron (dissolved)	milligrams per litre	0.4
Manganese (dissolved)	milligrams per litre	1.7
Nickel (dissolved)	milligrams per litre	0.047
Oil and Grease	milligrams per litre	10
pH	pH	6.5-9.0
Total suspended solids	milligrams per litre	50
Turbidity	nephelometric turbidity units	50
Zinc (dissolved)	milligrams per litre	0.05

POINT 10

Pollutant	Units of Measure	50 percentile concentration limit	90 percentile concentration limit	3DGM concentration limit	100 percentile concentration limit
Aluminium (dissolved)	milligrams per litre				0.45
Arsenic (dissolved)	milligrams per litre				0.024
Boron (dissolved)	milligrams per litre				0.37
Conductivity	microsiemens per centimetre				1200
Copper (dissolved)	milligrams per litre				0.007
Fluoride	milligrams per litre				1.8
Iron (dissolved)	milligrams per litre				0.4
Manganese (dissolved)	milligrams per litre				1.7
Nickel (dissolved)	milligrams per litre				0.047

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Oil and Grease	milligrams per litre	10
pH	pH	6.5-9.0
Zinc (dissolved)	milligrams per litre	0.05

L3 Volume and mass limits

- L3.1 For each discharge point or utilisation area specified below (by a point number), the volume/mass of:
- liquids discharged to water; or
 - solids or liquids applied to the area;
- must not exceed the volume/mass limit specified for that discharge point or area.

Point	Unit of Measure	Volume/Mass Limit
1	kilolitres per day	10000
4	kilolitres per day	15000
5	kilolitres per day	15000
9	kilolitres per day	30000

- L3.2 During emergency discharges (as defined in condition E1.1) the licensee may exceed the 15000kL/day limit for points 4 or 5, however the combined total daily limit for these two points must not exceed 30000kL/day. All practical steps must be taken to ensure that there is equilibrium of flow between these two discharge points.

L4 Noise limits

- L4.1 Noise from the upcast ventilation shaft must not exceed an LAeq (15 minute) noise emission criterion of 35 dB(A), except as expressly provided by this licence.
- L4.2 Noise from the premises is to be measured or computed at the nearest or most affected residence to determine compliance with condition L4.1.
- L4.3 The noise emission limits identified in this licence apply under all meteorological conditions except:
- during rain and wind speeds (at 10m height) greater than 3m/s; and
 - 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.

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4 Operating Conditions

O1 Activities must be carried out in a competent manner

O1.1 Licensed activities must be carried out in a competent manner.

This includes:

- a) the processing, handling, movement and storage of materials and substances used to carry out the activity; and
- b) the treatment, storage, processing, reprocessing, transport and disposal of waste generated by the activity.

O2 Maintenance of plant and equipment

O2.1 All plant and equipment installed at the premises or used in connection with the licensed activity:

- a) must be maintained in a proper and efficient condition; and
- b) must be operated in a proper and efficient manner.

O3 Dust

O3.1 The premises must be maintained in a condition which minimises or prevents the emission of dust from the premises.

O3.2 Trucks entering and leaving the premises that are carrying loads must be covered at all times, except during loading and unloading.

O4 Effluent application to land

O4.1 Effluent application must not occur in a manner that causes surface runoff.

O4.2 Spray from effluent application must not drift beyond the boundary of the premises.

O4.3 Livestock access to any effluent application area must be denied during irrigation and until the applied effluent has dried.

O4.4 The quantity of effluent/solids applied to the utilisation area must not exceed the capacity of the area to effectively utilise the effluent/solids.

For the purpose of this condition, 'effectively utilise' include the use of the effluent/solids for pasture or crop production, as well as the ability of the soil to absorb the nutrient, salt, hydraulic load and organic material.

O5 Waste management

O5.1 There must be no incineration or burning of any waste at the premises.

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O5.2 The sediments from the settling ponds of the Springvale Water Transfer Scheme must be disposed of into Delta Electricity's Kerosene Vale Ash Repository.

5 Monitoring and Recording Conditions

M1 Monitoring records

M1.1 The results of any monitoring required to be conducted by this licence or a load calculation protocol must be recorded and retained as set out in this condition.

M1.2 All records required to be kept by this licence must be:

- a) in a legible form, or in a form that can readily be reduced to a legible form;
- b) kept for at least 4 years after the monitoring or event to which they relate took place; and
- c) produced in a legible form to any authorised officer of the EPA who asks to see them.

M1.3 The following records must be kept in respect of any samples required to be collected for the purposes of this licence:

- a) the date(s) on which the sample was taken;
- b) the time(s) at which the sample was collected;
- c) the point at which the sample was taken; and
- d) the name of the person who collected the sample.

M2 Requirement to monitor concentration of pollutants discharged

M2.1 Special Frequency 1 means every five days.

M2.2 For each monitoring/discharge point or utilisation area specified below (by a point number), the licensee must monitor (by sampling and obtaining results by analysis) the concentration of each pollutant specified in Column 1. The licensee must use the sampling method, units of measure, and sample at the frequency, specified opposite in the other columns:

M2.3 Air Monitoring Requirements

POINT 8

Pollutant	Units of measure	Frequency	Sampling Method
Particulates - Deposited Matter	grams per square metre per month	Monthly	AM-19

M2.4 Water and/ or Land Monitoring Requirements

POINT 1

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Pollutant	Units of measure	Frequency	Sampling Method
Conductivity	microsiemens per centimetre	Weekly during any discharge	Grab sample
Filterable iron	milligrams per litre	Monthly during discharge	Grab sample
Filterable manganese	milligrams per litre	Monthly during discharge	Grab sample
Oil and Grease	milligrams per litre	Monthly during discharge	Grab sample
pH	pH	Weekly during any discharge	Grab sample
Total suspended solids	milligrams per litre	Monthly during discharge	Grab sample

POINT 4,5

Pollutant	Units of measure	Frequency	Sampling Method
Conductivity	microsiemens per centimetre	Daily during any discharge	Probe
Filterable iron	milligrams per litre	Weekly during any discharge	Grab sample
Filterable manganese	milligrams per litre	Weekly during any discharge	Grab sample
Oil and Grease	milligrams per litre	Weekly during any discharge	Grab sample
pH	pH	Daily during any discharge	Probe
Temperature	degrees Celsius	Daily during any discharge	Probe
Total suspended solids	milligrams per litre	Weekly during any discharge	Grab sample
Turbidity	nephelometric turbidity units	Daily during any discharge	Grab sample

POINT 6

Pollutant	Units of measure	Frequency	Sampling Method
Conductivity	microsiemens per centimetre	Monthly during discharge	Grab sample
Filterable iron	milligrams per litre	Monthly during discharge	Grab sample
Filterable manganese	milligrams per litre	Monthly during discharge	Grab sample
Oil and Grease	milligrams per litre	Monthly during discharge	Grab sample
pH	pH	Monthly during discharge	Grab sample
Total suspended solids	milligrams per litre	Monthly during discharge	Grab sample

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POINT 7

Pollutant	Units of measure	Frequency	Sampling Method
Conductivity	milligrams per litre	Daily during any discharge	Grab sample
pH	pH	Daily during any discharge	Grab sample
Total suspended solids	milligrams per litre	Daily during any discharge	Grab sample

POINT 9

Pollutant	Units of measure	Frequency	Sampling Method
Aluminium (dissolved)	milligrams per litre	Weekly during any discharge	Representative sample
Arsenic (dissolved)	milligrams per litre	Weekly during any discharge	Representative sample
Boron (dissolved)	milligrams per litre	Weekly during any discharge	Representative sample
Conductivity	microsiemens per centimetre	Weekly during any discharge	Representative sample
Copper (dissolved)	milligrams per litre	Weekly during any discharge	Representative sample
Fluoride	milligrams per litre	Weekly during any discharge	Representative sample
Iron (dissolved)	milligrams per litre	Weekly during any discharge	Representative sample
Manganese (dissolved)	milligrams per litre	Weekly during any discharge	Representative sample
Nickel (dissolved)	milligrams per litre	Weekly during any discharge	Representative sample
Oil and Grease	milligrams per litre	Weekly during any discharge	Representative sample
pH	pH	Weekly during any discharge	Representative sample
Total suspended solids	milligrams per litre	Weekly during any discharge	Representative sample
Turbidity	nephelometric turbidity units	Weekly during any discharge	Representative sample
Zinc (dissolved)	milligrams per litre	Weekly during any discharge	Representative sample

POINT 10

Pollutant	Units of measure	Frequency	Sampling Method
Aluminium (dissolved)	milligrams per litre	Daily during any discharge	Representative sample
Arsenic (dissolved)	milligrams per litre	Daily during any discharge	Representative sample
Boron (dissolved)	milligrams per litre	Daily during any discharge	Representative sample

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Conductivity	microsiemens per centimetre	Daily during any discharge	Representative sample
Copper (dissolved)	milligrams per litre	Daily during any discharge	Representative sample
Fluoride	milligrams per litre	Daily during any discharge	Representative sample
Iron (dissolved)	milligrams per litre	Daily during any discharge	Representative sample
Manganese (dissolved)	milligrams per litre	Daily during any discharge	Representative sample
Nickel (dissolved)	milligrams per litre	Daily during any discharge	Representative sample
Oil and Grease	milligrams per litre	Daily during any discharge	Representative sample
pH	pH	Daily	Representative sample
Total suspended solids	milligrams per litre	Daily during any discharge	Representative sample
Turbidity	nephelometric turbidity units	Daily during any discharge	Representative sample
Zinc (dissolved)	milligrams per litre	Daily during any discharge	Representative sample

M3 Testing methods - concentration limits

- M3.1 Monitoring for the concentration of a pollutant emitted to the air required to be conducted by this licence must be done in accordance with:
- any methodology which is required by or under the Act to be used for the testing of the concentration of the pollutant; or
 - if no such requirement is imposed by or under the Act, any methodology which a condition of this licence requires to be used for that testing; or
 - if no such requirement is imposed by or under the Act or by a condition of this licence, any methodology approved in writing by the EPA for the purposes of that testing prior to the testing taking place.

Note: The *Protection of the Environment Operations (Clean Air) Regulation 2010* requires testing for certain purposes to be conducted in accordance with test methods contained in the publication "Approved Methods for the Sampling and Analysis of Air Pollutants in NSW".

- M3.2 Subject to any express provision to the contrary in this licence, monitoring for the concentration of a pollutant discharged to waters or applied to a utilisation area must be done in accordance with the Approved Methods Publication unless another method has been approved by the EPA in writing before any tests are conducted.

M4 Environmental monitoring

- M4.1 The licensee must ensure that the following meteorological parameters are monitored on site and the results recorded:-

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- a) daily rainfall;
- b) daily evaporation;
- c) continuous wind speed and direction.

M5 Recording of pollution complaints

- M5.1 The licensee must keep a legible record of all complaints made to the licensee or any employee or agent of the licensee in relation to pollution arising from any activity to which this licence applies.
- M5.2 The record must include details of the following:
- a) the date and time of the complaint;
 - b) the method by which the complaint was made;
 - c) any personal details of the complainant which were provided by the complainant or, if no such details were provided, a note to that effect;
 - d) the nature of the complaint;
 - e) the action taken by the licensee in relation to the complaint, including any follow-up contact with the complainant; and
 - f) if no action was taken by the licensee, the reasons why no action was taken.
- M5.3 The record of a complaint must be kept for at least 4 years after the complaint was made.
- M5.4 The record must be produced to any authorised officer of the EPA who asks to see them.

M6 Telephone complaints line

- M6.1 The licensee must operate during its operating hours a telephone complaints line for the purpose of receiving any complaints from members of the public in relation to activities conducted at the premises or by the vehicle or mobile plant, unless otherwise specified in the licence.
- M6.2 The licensee must notify the public of the complaints line telephone number and the fact that it is a complaints line so that the impacted community knows how to make a complaint.
- M6.3 The preceding two conditions do not apply until 3 months after:
- a) the date of the issue of this licence or
 - b) if this licence is a replacement licence within the meaning of the Protection of the Environment Operations (Savings and Transitional) Regulation 1998, the date on which a copy of the licence was served on the licensee under clause 10 of that regulation.

M7 Requirement to monitor volume or mass

- M7.1 For each discharge point or utilisation area specified below, the licensee must monitor:
- a) the volume of liquids discharged to water or applied to the area;
 - b) the mass of solids applied to the area;
 - c) the mass of pollutants emitted to the air;
- at the frequency and using the method and units of measure, specified below.

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POINT 1

Frequency	Unit of Measure	Sampling Method
Daily	kilolitres per day	Flow meter and continuous logger

POINT 2

Frequency	Unit of Measure	Sampling Method
Daily	kilolitres per day	Flow meter and continuous logger

POINT 4

Frequency	Unit of Measure	Sampling Method
Daily during any discharge	kilolitres per day	By Calculation (volume flow rate or pump capacity multiplied by operating time)

POINT 5

Frequency	Unit of Measure	Sampling Method
Daily during any discharge	kilolitres per day	By Calculation (volume flow rate or pump capacity multiplied by operating time)

POINT 7

Frequency	Unit of Measure	Sampling Method
Daily during any discharge	kilolitres per day	Estimate

POINT 9

Frequency	Unit of Measure	Sampling Method
Daily during any discharge	kilolitres per day	Estimate

POINT 10

Frequency	Unit of Measure	Sampling Method
Daily during any discharge	kilolitres per day	Estimate

6 Reporting Conditions

R1 Annual return documents

- R1.1 The licensee must complete and supply to the EPA an Annual Return in the approved form comprising:
- a) a Statement of Compliance; and
 - b) a Monitoring and Complaints Summary.

At the end of each reporting period, the EPA will provide to the licensee a copy of the form that must be completed and returned to the EPA.

- R1.2 An Annual Return must be prepared in respect of each reporting period, except as provided below.

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Note: The term "reporting period" is defined in the dictionary at the end of this licence. Do not complete the Annual Return until after the end of the reporting period.

R1.3 Where this licence is transferred from the licensee to a new licensee:

- a) the transferring licensee must prepare an Annual Return for the period commencing on the first day of the reporting period and ending on the date the application for the transfer of the licence to the new licensee is granted; and
- b) the new licensee must prepare an Annual Return for the period commencing on the date the application for the transfer of the licence is granted and ending on the last day of the reporting period.

Note: An application to transfer a licence must be made in the approved form for this purpose.

R1.4 Where this licence is surrendered by the licensee or revoked by the EPA or Minister, the licensee must prepare an Annual Return in respect of the period commencing on the first day of the reporting period and ending on:

- a) in relation to the surrender of a licence - the date when notice in writing of approval of the surrender is given; or
- b) in relation to the revocation of the licence - the date from which notice revoking the licence operates.

R1.5 The Annual Return for the reporting period must be supplied to the EPA by registered post not later than 60 days after the end of each reporting period or in the case of a transferring licence not later than 60 days after the date the transfer was granted (the 'due date').

R1.6 The licensee must retain a copy of the Annual Return supplied to the EPA for a period of at least 4 years after the Annual Return was due to be supplied to the EPA.

R1.7 Within the Annual Return, the Statement of Compliance must be certified and the Monitoring and Complaints Summary must be signed by:

- a) the licence holder; or
- b) by a person approved in writing by the EPA to sign on behalf of the licence holder.

R1.8 A person who has been given written approval to certify a certificate of compliance under a licence issued under the Pollution Control Act 1970 is taken to be approved for the purpose of this condition until the date of first review of this licence.

R2 Notification of environmental harm

Note: The licensee or its employees must notify all relevant authorities of incidents causing or threatening material harm to the environment immediately after the person becomes aware of the incident in accordance with the requirements of Part 5.7 of the Act.

R2.1 Notifications must be made by telephoning the Environment Line service on 131 555.

R2.2 The licensee must provide written details of the notification to the EPA within 7 days of the date on which the incident occurred.

R3 Written report

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- R3.1 Where an authorised officer of the EPA suspects on reasonable grounds that:
- a) where this licence applies to premises, an event has occurred at the premises; or
 - b) where this licence applies to vehicles or mobile plant, an event has occurred in connection with the carrying out of the activities authorised by this licence,
- and the event has caused, is causing or is likely to cause material harm to the environment (whether the harm occurs on or off premises to which the licence applies), the authorised officer may request a written report of the event.
- R3.2 The licensee must make all reasonable inquiries in relation to the event and supply the report to the EPA within such time as may be specified in the request.
- R3.3 The request may require a report which includes any or all of the following information:
- a) the cause, time and duration of the event;
 - b) the type, volume and concentration of every pollutant discharged as a result of the event;
 - c) the name, address and business hours telephone number of employees or agents of the licensee, or a specified class of them, who witnessed the event;
 - d) the name, address and business hours telephone number of every other person (of whom the licensee is aware) who witnessed the event, unless the licensee has been unable to obtain that information after making reasonable effort;
 - e) action taken by the licensee in relation to the event, including any follow-up contact with any complainants;
 - f) details of any measure taken or proposed to be taken to prevent or mitigate against a recurrence of such an event; and
 - g) any other relevant matters.
- R3.4 The EPA may make a written request for further details in relation to any of the above matters if it is not satisfied with the report provided by the licensee. The licensee must provide such further details to the EPA within the time specified in the request.

7 General Conditions

G1 Copy of licence kept at the premises or plant

- G1.1 A copy of this licence must be kept at the premises to which the licence applies.
- G1.2 The licence must be produced to any authorised officer of the EPA who asks to see it.
- G1.3 The licence must be available for inspection by any employee or agent of the licensee working at the premises.

G2 Signage

- G2.1 The location of EPA point number(s) 4 (LD4) and 5 (LD5) must be clearly marked by signs that indicate the point identification number used in this licence and be located as close as practical to the point.

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8 Pollution Studies and Reduction Programs

U1 Sediment dam storage capacities

U1.1 The licensee must undertake works at the Centennial Coal Services site to ensure that the Main Sediment Dam, the Stockpile Sediment Dam and the Washery Sediment Dam have the capacity to store a 95th percentile (56mm) 5 day rainfall event.

These works must be completed by 9 May 2014.

Note: The EPA will place a note under condition L2.4 stating that the water quality limits for licence discharge point 6 (LDP6) will not apply during a 95th percentile (56mm) 5 day rainfall event once the licensee has stated that all site sediment control dams have attained the appropriate storage specifications.

U2 Groundwater seepage interception system

U2.1 The licensee must design and implement a groundwater seepage recovery system at the Coal Services portion of the premises such that all major or significant groundwater seepages that would otherwise flow in to the site's dirty water system and discharge through LD6 are captured and recycled within the closed system of the coal washery's water supply.

The licensee must design and implement the groundwater seepage interception system by **31 July 2013**.

U3 Assessment of potential impacts of pollutants at LDP6

U3.1 At Point 6 (LDP6) the licensee must monitor (by sampling and obtaining results by laboratory analysis) the concentration of each pollutant specified in Column 1 in the table below. The licensee must use the sampling method, units of measure and sample at the frequency as specified in the columns opposite each pollutant. The licensee shall continue to monitor for these pollutants at the upstream and downstream locations within Wangcol Creek as previously nominated.

Following the collection of additional monitoring results up until 31 December 2013, the licensee must undertake an assessment of the pollutants detected in water discharged from the site via LDP6 in accordance with ANZECC water quality guidelines and provide this assessment to the Bathurst Regional Office of the EPA by **28 February 2014**.

Pollutant	Units of measure	Frequency	Sampling method
Conductivity	microsiemens per centimetre	monthly during discharge	Grab Sample
Iron (dissolved)	milligrams per litre	monthly during discharge	Grab sample
Manganese (dissolved)	milligrams per litre	monthly during discharge	Grab sample
Nickel (dissolved)	milligrams per litre	monthly during discharge	Grab sample
Nickel (total)	milligrams per litre	monthly during discharge	Grab sample
Total hardness	milligrams per litre	monthly during discharge	Grab sample
Zinc (dissolved)	milligrams per litre	monthly during discharge	Grab sample

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Zinc (total)	milligrams per litre	monthly during discharge	Grab sample
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Note: It is the EPA's intention to place water quality limits for these pollutants on all discharges via LDP6 based on the results of this assessment.

9 Special Conditions

E1 Emergency Discharges to Wolgan River

E1.1 For the purposes of this licence, an “emergency discharge” is defined as the release of groundwater, sourced from the licensee’s underground workings, through licensed discharge points 4 (LD4) and 5 (LD5) in the event of a shutdown of the Springvale Colliery to Delta Water Transfer Scheme for circumstances either beyond the licensee’s control or for essential maintenance purposes.

E1.2 Prior to discharge:

The licensee must ensure that appropriate measures are taken prior to any emergency water discharge to minimise erosion and sedimentation at the discharge points (LD4 and LD5) and of the drainage lines downstream of LD4 and LD5.

E1.3 Notifying the EPA of emergency discharge

The licensee shall inform the EPA in writing (fax to 6332 7630):

- within 24 hours of a failure in the Springvale to Delta Water Transfer Scheme;
- no later than 48 hours prior to a scheduled pipeline shutdown;
- no later than 48 hours prior to the requirement to continue the emergency discharge for a period greater than 2 weeks; and
- within 24 hours following the reinstatement of the pipeline.

The notification of a failure or planned shutdown of the pipeline must include details of the nature of the failure/shutdown and the expected timeframe to restore the pipeline.

E1.4 Monitoring during emergency discharge

In addition to the monitoring required by condition M2.1, the licensee shall undertake the following monitoring during and following an emergency discharge event:

- daily inspections of the discharge points (LD4 and LD5) and the drainage lines downstream of LD4 and LD5;
- daily monitoring (visual) of the equilibration of the flow rate between emergency discharge points LD4 and LD5; and
- a photographic survey along the length of the flow lines, beneath the discharge points, likely to be affected during periods of emergency discharge. This survey must be conducted either immediately prior to or during the emergency discharge event and no later than 6 months following the cessation of the emergency discharge event.

E1.5 Emergency discharge reporting

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A report shall be prepared by the licensee, following the recommissioning of the pipeline, which shall include but not be limited to:

- a) the cause of the pipe failure/shutdown;
- b) the duration of the emergency discharge (in days);
- c) the total volume of water discharged from LD4 and LD5 (in kL/day);
- d) the results of all monitoring undertaken;
- e) any remedial measures required on the drainage line(s) below the emergency discharge points that have been or will require implementation;
- f) any measures to be taken to prevent a recurrence in the case the emergency discharge event was a result of a pipe failure; and
- g) all appropriate photos and figures.

The report must be sent to the EPA's Bathurst office within four (4) weeks of the recommissioning of the Springvale to Delta Water Transfer Scheme.

E2 Option Study to treat Mine Water Discharge

- E2.1 The licensee must prepare and submit to the EPA for review, a report outlining options to treat ground water (mine water) generated by the licensed premise as a result of mine dewatering activities, prior to any discharge to the environment.

The objective of the option study is to reduce salt load and salinity levels discharged into the Coxs River Catchment by the licensee. The options or option identified must be capable of treating all mine water generated by the premises (ground and surface water) to achieve an electrical conductivity (EC) of 350 microsiemens per centimetre in the treated water, prior to the treated water being discharged to the Coxs River or any of its tributaries. Where appropriate, the treatment of other pollutants in the discharge must be assessed.

Where the option study proposes a water treatment option that involves Delta Electricity, the option must be developed in consultation and agreement with Delta Electricity.

Completion Date: The option study and report must be submitted to the EPA by 30 September 2013.

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Dictionary

General Dictionary

3DGM [in relation to a concentration limit]	Means the three day geometric mean, which is calculated by multiplying the results of the analysis of three samples collected on consecutive days and then taking the cubed root of that amount. Where one or more of the samples is zero or below the detection limit for the analysis, then 1 or the detection limit respectively should be used in place of those samples
Act	Means the Protection of the Environment Operations Act 1997
activity	Means a scheduled or non-scheduled activity within the meaning of the Protection of the Environment Operations Act 1997
actual load	Has the same meaning as in the Protection of the Environment Operations (General) Regulation 2009
AM	Together with a number, means an ambient air monitoring method of that number prescribed by the <i>Approved Methods for the Sampling and Analysis of Air Pollutants in New South Wales</i> .
AMG	Australian Map Grid
anniversary date	The anniversary date is the anniversary each year of the date of issue of the licence. In the case of a licence continued in force by the Protection of the Environment Operations Act 1997, the date of issue of the licence is the first anniversary of the date of issue or last renewal of the licence following the commencement of the Act.
annual return	Is defined in R1.1
Approved Methods Publication	Has the same meaning as in the Protection of the Environment Operations (General) Regulation 2009
assessable pollutants	Has the same meaning as in the Protection of the Environment Operations (General) Regulation 2009
BOD	Means biochemical oxygen demand
CEM	Together with a number, means a continuous emission monitoring method of that number prescribed by the <i>Approved Methods for the Sampling and Analysis of Air Pollutants in New South Wales</i> .
COD	Means chemical oxygen demand
composite sample	Unless otherwise specifically approved in writing by the EPA, a sample consisting of 24 individual samples collected at hourly intervals and each having an equivalent volume.
cond.	Means conductivity
environment	Has the same meaning as in the Protection of the Environment Operations Act 1997
environment protection legislation	Has the same meaning as in the Protection of the Environment Administration Act 1991
EPA	Means Environment Protection Authority of New South Wales.
fee-based activity classification	Means the numbered short descriptions in Schedule 1 of the Protection of the Environment Operations (General) Regulation 2009.
general solid waste (non-putrescible)	Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997

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flow weighted composite sample	Means a sample whose composites are sized in proportion to the flow at each composites time of collection.
general solid waste (putrescible)	Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997
grab sample	Means a single sample taken at a point at a single time
hazardous waste	Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997
licensee	Means the licence holder described at the front of this licence
load calculation protocol	Has the same meaning as in the Protection of the Environment Operations (General) Regulation 2009
local authority	Has the same meaning as in the Protection of the Environment Operations Act 1997
material harm	Has the same meaning as in section 147 Protection of the Environment Operations Act 1997
MBAS	Means methylene blue active substances
Minister	Means the Minister administering the Protection of the Environment Operations Act 1997
mobile plant	Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997
motor vehicle	Has the same meaning as in the Protection of the Environment Operations Act 1997
O&G	Means oil and grease
percentile [in relation to a concentration limit of a sample]	Means that percentage [eg.50%] of the number of samples taken that must meet the concentration limit specified in the licence for that pollutant over a specified period of time. In this licence, the specified period of time is the Reporting Period unless otherwise stated in this licence.
plant	Includes all plant within the meaning of the Protection of the Environment Operations Act 1997 as well as motor vehicles.
pollution of waters [or water pollution]	Has the same meaning as in the Protection of the Environment Operations Act 1997
premises	Means the premises described in condition A2.1
public authority	Has the same meaning as in the Protection of the Environment Operations Act 1997
regional office	Means the relevant EPA office referred to in the Contacting the EPA document accompanying this licence
reporting period	For the purposes of this licence, the reporting period means the period of 12 months after the issue of the licence, and each subsequent period of 12 months. In the case of a licence continued in force by the Protection of the Environment Operations Act 1997, the date of issue of the licence is the first anniversary of the date of issue or last renewal of the licence following the commencement of the Act.
restricted solid waste	Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997
scheduled activity	Means an activity listed in Schedule 1 of the Protection of the Environment Operations Act 1997
special waste	Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997
TM	Together with a number, means a test method of that number prescribed by the <i>Approved Methods for the Sampling and Analysis of Air Pollutants in New South Wales</i> .

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TSP	Means total suspended particles
TSS	Means total suspended solids
Type 1 substance	Means the elements antimony, arsenic, cadmium, lead or mercury or any compound containing one or more of those elements
Type 2 substance	Means the elements beryllium, chromium, cobalt, manganese, nickel, selenium, tin or vanadium or any compound containing one or more of those elements
utilisation area	Means any area shown as a utilisation area on a map submitted with the application for this licence
waste	Has the same meaning as in the Protection of the Environment Operations Act 1997
waste type	Means liquid, restricted solid waste, general solid waste (putrescible), general solid waste (non - putrescible), special waste or hazardous waste

Ms Debbie Maddison

Environment Protection Authority

(By Delegation)

Date of this edition: 17-May-2000

Environment Protection Licence



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End Notes

- 1 Licence varied by notice V/M upgrade, issued on 08-Jul-2000, which came into effect on 08-Jul-2000.
- 2 Licence varied by notice 1008839, issued on 24-Sep-2001, which came into effect on 24-Sep-2001.
- 3 Licence varied by notice 1020230, issued on 04-Sep-2002, which came into effect on 29-Sep-2002.
- 4 Licence varied by notice 1025883, issued on 03-Apr-2003, which came into effect on 07-Apr-2003.
- 5 Licence varied by notice 1028983, issued on 19-Dec-2003, which came into effect on 13-Jan-2004.
- 6 Licence varied by notice 1034311, issued on 03-Sep-2004, which came into effect on 28-Sep-2004.
- 7 Licence varied by notice 1041194, issued on 11-Oct-2004, which came into effect on 11-Oct-2004.
- 8 Licence varied by notice 1046241, issued on 08-Aug-2005, which came into effect on 02-Sep-2005.
- 9 Licence varied by notice 1052295, issued on 26-Apr-2006, which came into effect on 26-Apr-2006.
- 10 Licence varied by notice 1063851, issued on 03-Oct-2006, which came into effect on 03-Oct-2006.
- 11 Licence varied by notice 1077081, issued on 21-Aug-2007, which came into effect on 21-Aug-2007.
- 12 Condition A1.3 Not applicable varied by notice issued on <issue date> which came into effect on <effective date>
- 13 Licence varied by notice 1103012, issued on 09-Sep-2009, which came into effect on 09-Sep-2009.
- 14 Licence varied by notice 1114246, issued on 10-Sep-2010, which came into effect on 10-Sep-2010.
- 15 Licence varied by notice 1126999, issued on 05-Jul-2011, which came into effect on 05-Jul-2011.
- 16 Licence varied by notice 1501785 issued on 19-Dec-2011
- 17 Licence varied by notice 1506033 issued on 02-Aug-2012
- 18 Licence varied by notice 1514038 issued on 21-May-2013

Appendix 3 Correspondence



Our reference: EF13/3625: DOC14/22462
Contact: Andrew Helms (02) 6332 7604

The Mine Manager
Springvale Coal Pty Limited
PO Box 198
WALLERAWANG NSW 2845

Attention: Mr Tony Nolan

26 February 2014

Dear Mr Le Roux

SPRINGVALE COLLIERY – NOISE MANAGEMENT PLAN

I refer to a letter from Centennial Springvale Pty Limited to the Environment Protection Authority (EPA), received via e-mail on 20 February 2014, seeking comment on a draft Noise Management Plan for the Springvale Colliery.

The EPA understands that the development of this plan, in consultation with the EPA, is necessary in order to satisfy the requirements of the Department of Planning and Infrastructure following the granting of Springvale Coal Modification Consent 4.

The EPA encourages the development of such plans to ensure that proponents have determined how they will meet their statutory obligations and environmental objectives as specified by conditions of the operator's environment protection licence. However, the EPA generally does not review these documents as our role is to set environmental objectives for environmental management, not to be directly involved in the development of plans to achieve those objectives.

Should you have any enquiries regarding this matter please contact Mr Andrew Helms at the EPA's Central West Regional Office (Bathurst) by telephoning (02) 6332 7604.

Yours sincerely

A handwritten signature in black ink, appearing to read 'Slaf' or similar, written in a cursive style.

SHERIDAN LEDGER
A/Head Central West Unit
Environment Protection Authority