LDO GROUP Report



SITE:	Mannering Colliery	
Department:	HSEC	
REPORT TITLE:	Monthly Environmental Report – February 2015	
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Summary

There were no environmental incidents in the month of February 2015 at Mannering Colliery.

Introduction

LakeCoal Pty Ltd (LakeCoal) operates the Mannering Colliery, an underground coal mine at the southern end of Lake Macquarie.

This monthly report is to satisfy the requirements of;

- section 66(6) of the Protection of the Environmental Operations Act, 1997, to make monitoring data related to an Environment Protection Licence publically available and
- condition 7 & 10, schedule 5, of Development Approval 06_0311 (as modified) to provide details of monitoring results and environmental performance.

This report provides environmental monitoring data from Mannering Colliery for the period 1st February 2015 to 28th February 2015.

Environmental monitoring data is collected as required under Environment Protection Licence 191 (EPL 191).

Details of the Mannering Colliery and EPL 191 are provided below.

Mannering Colliery Information			
Premises name	Mannering Colliery		
Address	Rutleys Road, Doyalson, NSW, 2262		
Licensee	LakeCoal Pty Ltd		
EPL#	191		
EPL location	http://www.epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=3319 6&SYSUID=1&LICID=191		

The overall purpose of this report is to keep stakeholders informed of the environmental monitoring results at Mannering Colliery and maintain a transparent and accountable reporting system.

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Scope

This report presents the results from the various environmental monitoring undertaken for Mannering Colliery.

Results are presented for each specific month and annual data, averages and trends in data are shown to where relevant.

Where applicable, the results of the monitoring programs are compared with the relevant criteria (from the EPL or Project Approval) to determine compliance.

Monitoring results presented include;

- Water quality;
- Water volume;
- Air quality;
- · Operational noise; and
- Weather data

Definitions

°C – degrees celsius

dB- decibels

dB(A) – noise level measurement units are decibels (dB). The A-weighting scale is used to approximate human perception of noise

g/m²/month – grams per square metre per month

kL- kilolitres

L_{Aeq}-the average A-weighted noise energy (in dB) for a measurement period

mg/L - Milligrams per litre

mm - millimetre

µS/cm – microsiemens per centimetre

References

Project Approval 06 0311 (as modified)

Environment Protection Licence 191 (Licence version date: 29 October 2013)

Steel River Testing - Dust Deposition Report - February 2015 (Report 8235-0)

ALS Environmental - Monthly Water Monitoring Results (February 2015 - Work Order ES1502819)

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Monitoring Results

Water – Quality

Daily Water Quality Results

Feb-15				
EPL	191			
Licensee	LakeCoal Pty Ltd			
Premises	Mannering Colliery			
Period	01-Feb-15	to	28-Feb-15	
Location	LDP001 (EPA ID # 1)	10	20 1 CD 15	
Date sampled	Daily			
Date reported	Refer report date			
Monitoring requirement	Daily monitoring dur	ing discharge		
	6.5 - 8.5	ing discharge		
pH limit				
TSS limit (mg/L)	50			
Oil and grease limit (mg/L)	10			
Exceedance (Yes/No)	No			
	Daily Water Qu			
Date	рН	TSS (mg/L)	Oil and grease (mg/L)	
01/02/2014				
02/02/2014	7.9	10	<5	
03/02/2014	7.8	13	<5	
04/02/2014	7.8	5	<5	
05/02/2014	7.8	9	<5	
06/02/2014	7.9	7.9 3		
07/02/2014				
08/02/2014				
09/02/2014	7.8	2	<5	
10/02/2014	7.7	6	<5	
11/02/2014	7.8	8	<5	
12/02/2014	7.7	4	<5	
13/02/2014	8.0	8	<5	
14/02/2014				
15/02/2014				
16/02/2014	8.0	7	<5	
17/02/2014	7.8	10	<5	
18/02/2014	7.7	8	<5	
19/02/2014	7.9	8	<5	
20/02/2014	7.9 4		<5	
21/02/2014				
22/02/2014				
23/02/2014	8.0	5	<5	
24/02/2014	7.8	8	<5	
25/02/2014	7.8	6	<5	
26/02/2014	7.8	6	<5	
27/02/2014	7.8	4	<5	
28/02/2014				
Notes:				
Monitoring undertaken dail	y during water dischar	ges		
There were no reportable in				



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Monthly Water Quality Results

	February 2015		
EPL	191		
Licensee	LakeCoal Pty Ltd		
Premises	Mannering Colliery		
Date Sampled	09-Feb-15		
Date Obtained	17-Feb-15		
Date Reported	Refer report date		
Sampling Point	1		
Parameter	Units	Limit	Result
Aluminium (Dissolved)	μg/L		<10
Aluminium (Total)	μg/L		<10
Antimony	μg/L		<1
Arsenic (Dissolved)	μg/L		2
Arsenic (Total)	μg/L		<1
Barium	μg/L		244
Beryillium (Dissolved)	μg/L		<1
Beryillium (Total)	μg/L		<1
Boron	μg/L		350
Cadmium (Dissolved)	μg/L		<0.1
Cadmium (Total)	μg/L		<0.1
Calcium	mg/L		208
Chromium (Dissolved)	μg/L		<1
Chromium (Total)	<u>μg/L</u>		<1
Cobalt (Dissolved)	μg/L		<1
Cobalt (Total)	μg/L		<1
Conductivity	μs/cm		25900
Copper (Dissolved)	μg/L		<1
Copper (Total)	μg/L		<1
Iron	μg/L		290
Lead (Total)	μg/L		<1
Lead (dissolved)	μg/L		<1
Lithium	μg/L		655
Magnesium	mg/L		273
Manganese (dissolved)	μg/L		35
Mercury (Total)	μg/L		<0.1
Mercury (dissolved)	μg/L		<0.1
Molybdemun (Dissolved)			16
Molybdemun (Total)	μg/L		17
Nickel (Dissolved)	μg/L		4
Nickel (Total)	μg/L		4
Nitrogen (Ammonia)	mg/L		0.92
Phosphorous (Total)	mg/L		0.13
Potassium	mg/L		39
Selenium (Dissolved)	μg/L		<10
Selenium (Total)	μg/L		<10
Silica	mg/L		12
Silver (Total)	μg/L		<5
Silver (dissolved)	μg/L		<1
Sulfur	mg/L		125
Tin (Total)	μg/L		<1
Titanium (Total)	μg/L		<10
Vanadium (Dissolved)	μg/L		<10
Vanadium (Total)	μg/L		<10
Zinc (Dissolved)	μg/L		12
Zinc (Total)	μg/L		14

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Water - Volume

February 2015			
191			
LakeCoal Pty Ltd			
Mannering Colliery			
Daily			
Refer report date			
4000 kilolitres per day			
LDP001 (EPA ID # 1)			
	LakeCoal Pty Ltd Mannering Colliery Daily Refer report date 4000 kilolitres per day		

Date (24 hour period)	Unit	Volume
01/02/2015	kL	0
02/02/2015	kL	0
03/02/2015	kL	998
04/02/2015	kL	2014
05/02/2015	kL	1967
06/02/2015	kL	792
07/02/2015	kL	0
08/02/2015	kL	0
09/02/2015	kL	1168
10/02/2015	kL	1649
11/02/2015	kL	5
12/02/2015	kL	10
13/02/2015	kL	840
14/02/2015	kL	0
15/02/2015	kL	0
16/02/2015	kL	1293
17/02/2015	kL	2029
18/02/2015	kL	1787
19/02/2015	kL	1562
20/02/2015	kL	732
21/02/2015	kL	0
22/02/2015	kL	0
23/02/2015	kL	1247
24/02/2015	kL	2011
25/02/2015	kL	1629
26/02/2015	kL	1130
27/02/2015	kL	591
28/02/2015	kL	0

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Air Quality

Monthly depositional dust results

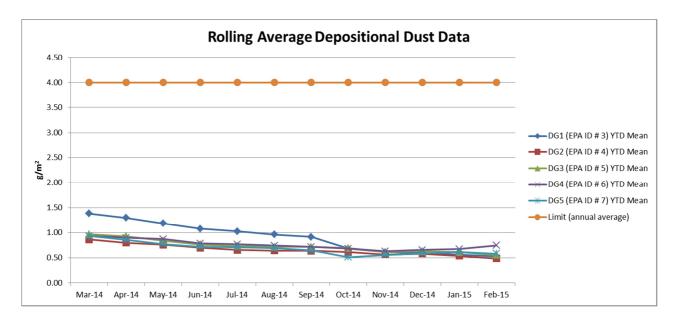
Monthly Depositional Dust Data				
February 2015				
EPL	191			
Licensee	LakeCoal Pty Ltd			
Premises	Mannering Colliery			
Date Sampled	20-Jan-15	to	19-Feb-15	
Date Obtained	02-Mar-15			
Date Reported	Refer report date			
Sampling Point	As per site below			

Site	Insoluble Matter (g/m2/month)
DG1 (EPA ID # 3)	0.4
DG2 (EPA ID # 4)	0.2
DG3 (EPA ID # 5)	0.2
DG4 (EPA ID # 6)	2.1
DG5 (EPA ID # 7)	0.6

Notes:

- For site locations refer to Air Quality Management Plan

Rolling annual average depositional dust results



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Operational Noise

Quarter 1 2015 attended noise monitoring has not yet been completed.

Results will be provided once the monitoring results become available from the noise monitoring consultants.

Weather

A summary of weather data recorded by an on-site meteorological monitoring station at the Colliery is presented below for the year to date.

Monthly Weather Data				
Feb-15				
EPL	191			
Licensee	LakeCoal Pty	y Ltd		
Premises	Mannering (Mannering Colliery		
Location	W1 (on-site	W1 (on-site weather station)		
Date published	e published Refer report date			
Date sampled:	Daily			
Date obtained:	04/03/2015			
Month	Total	Minimum	Maximum	
	Rainfall /	Temperature (°C)	Temperature (°C)	
	Month			
	(mm)			
Jan-15	235.4	13	35	
Feb-15	54.2	16	33	

