

Monthly Website Report



SITE:	Mannering Colliery
Department:	Technical Services
REPORT TITLE:	Monthly Environmental Report – April 2016
Prepared by:	Wade Covey
Report Date:	14/05/2016
Distribution:	Mannering Colliery Website

TABLE OF CONTENTS

Summary	3
Introduction	3
Scope.....	4
Definitions	4
References	4
Monitoring Results	5
Water – Quality	5
Weekly Water Quality Results	5
Monthly Water Quality Results	5
Water – Volume	6
Air Quality	7
Monthly depositional dust results	7
Rolling annual average depositional dust results	7
Operational Noise	7
Weather	8

Summary

Monitoring was undertaken in April 2016 with all results in compliance with the required limits.

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 Environment 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 1 April 2016 to 30 April 2016.

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=50781&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.

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: 13 May 2015)

Steel River Testing - Dust Deposition Report – April 2016

ALS Environmental - Monthly Water Monitoring Results – April 2016

Title: Mannering Colliery Monthly Environmental Report

Monitoring Results

Water – Quality

Weekly Water Quality Results

Apr-16			
EPL	191		
Licensee	LakeCoal Pty Ltd		
Premises	Mannering Colliery		
Period	01-Apr-16	to	30-Apr-16
Location	LDP001 (EPA ID # 1)		
Date sampled	Weekly		
Date reported	Refer report date		
Monitoring requirement	Weekly		
pH limit	6.5 - 8.5		
TSS limit (mg/L)	50		
Oil and grease limit (mg/L)	10		
Exceedance (Yes/No)	No		
Water Quality Results			
Date	pH	TSS (mg/L)	Oil and grease (mg/L)
06/04/2016	8.0	2	<5
13/04/2016	7.8	2	<5
20/04/2016	7.9	3	<5
26/04/2016	7.8	6	<5
27/04/2016	7.7	5	<5
Notes:			
Monitoring undertaken weekly in accordance with EPL 191 requirements			

Monthly Water Quality Results

Title: Mannering Colliery Monthly Environmental Report

Water – Volume

April 2016		
EPL	191	
Licensee	LakeCoal Pty Ltd	
Premises	Mannering Colliery	
Date Sampled	Daily	
Date Reported	Refer report date	
Discharge volume limit	4000 kilolitres per day	
Sampling Point	LDP001 (EPA ID # 1)	
Date (24 hour period)	Unit	Volume
01/04/2016	kL	907
02/04/2016	kL	0
03/04/2016	kL	0
04/04/2016	kL	1557
05/04/2016	kL	1740
06/04/2016	kL	1738
07/04/2016	kL	2059
08/04/2016	kL	1633
09/04/2016	kL	0
10/04/2016	kL	0
11/04/2016	kL	0
12/04/2016	kL	0
13/04/2016	kL	839
14/04/2016	kL	1440
15/04/2016	kL	125
16/04/2016	kL	0
17/04/2016	kL	0
18/04/2016	kL	900
19/04/2016	kL	1585
20/04/2016	kL	1267
21/04/2016	kL	0
22/04/2016	kL	0
23/04/2016	kL	0
24/04/2016	kL	0
25/04/2016	kL	0
26/04/2016	kL	0
27/04/2016	kL	4
28/04/2016	kL	1512
29/04/2016	kL	1365
30/04/2016	kL	0

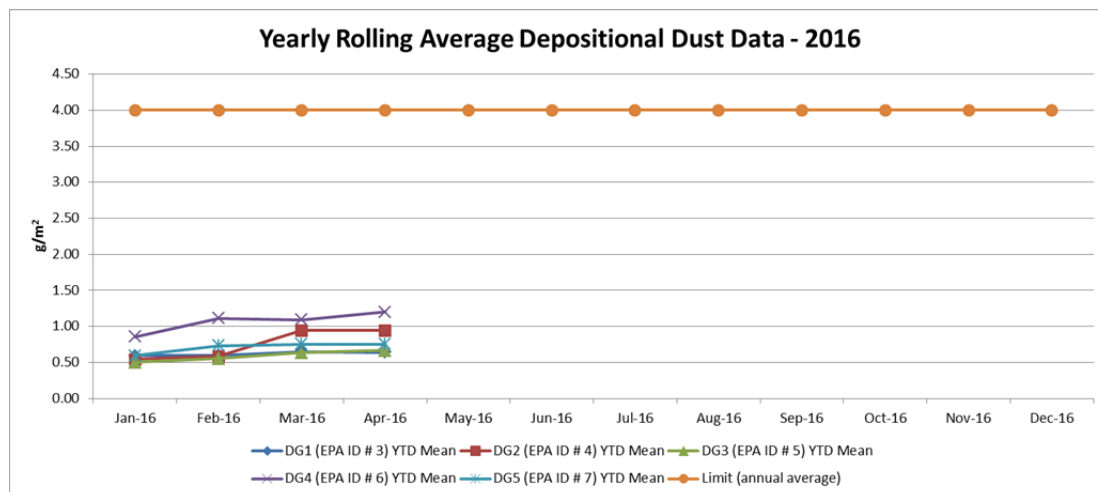
Title: Mannering Colliery Monthly Environmental Report

Air Quality

Monthly depositional dust results

Monthly Depositional Dust Data			
April 2016			
EPL	191		
Licensee	LakeCoal Pty Ltd		
Premises	Mannering Colliery		
Date Sampled	15-Mar-16	to	14-Apr-16
Date Obtained	21-Apr-16		
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)	0.4		
DG3 (EPA ID # 5)	0.8		
DG4 (EPA ID # 6)	1.8		
DG5 (EPA ID # 7)	0.5		
Notes:			
- For site locations refer to Air Quality Management Plan			

Rolling annual average depositional dust results



Operational Noise

Q1 attended noise monitoring has been undertaken. Report currently being finalised.

There were no non-compliances identified from initial attended monitoring results.

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			
Apr-16			
EPL	191		
Licensee	LakeCoal Pty Ltd		
Premises	Mannering Colliery		
Location	W1 (on-site weather station)		
Date published:	Refer report date		
Date sampled:	Daily		
Date obtained:	14/05/2016		
Month	Total Rainfall / Month (mm)	Minimum Temperature (°C)	Maximum Temperature (°C)
Jan-15	235.4	13	35
Feb-15	54.2	16	33
Mar-15	122.4	11	35
Apr-15	422.2	12	27
May-15	138.4	8	26
Jun-15	90	6	23
Jul-15	20	3	20
Aug-15	32.6	3	27
Sep-15	112.8	7	28
Oct-15	52.4	11	36
Nov-15	110.4	12	41
Dec-15	166.8	12.8	37
Jan-16	329	14.3	36
Feb-16	17.4	16.4	37.7
Mar-16	92.2	14.3	30.1
Apr-16	36.2	12.1	33.5