

# Monthly Website Report



<b>SITE:</b>	<b>Mannering Colliery</b>
<b>Department:</b>	<b>Technical Services</b>
<b>REPORT TITLE:</b>	<b>Monthly Environmental Report – December 2017</b>
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<b>Distribution:</b>	<b>Mannering Colliery Website</b>

# Report

Title: **Mannering Colliery Monthly Environmental Report**

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## Summary

Monitoring was undertaken in December 2017 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 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 1 December 2017 to 31 December 2017.

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.

<b>Mannering Colliery Information</b>	
Premises name	Mannering Colliery
Address	Rutleys Road, Doyalson, NSW, 2262
Licensee	LakeCoal Pty Ltd
EPL #	191
EPL location	<a href="http://www.epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=50781&amp;SYSUID=1&amp;LICID=191">http://www.epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=50781&amp;SYSUID=1&amp;LICID=191</a>

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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Title:

Manning Colliery Monthly Environmental Report

## Scope

This report presents the results from the various environmental monitoring undertaken for Manning 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/m<sup>2</sup>/month – grams per square metre per month

kL – kilolitres

L<sub>Aeq</sub> – 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 – December 2017

Steel River Testing – Water Analysis Report – December 2017

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## Monitoring Results

### Water – Quality

Water Quality Results (reverted to weekly as per EPL PRP requirements)

December 2017			
EPL	191		
Licensee	LakeCoal Pty Ltd		
Premises	Mannering Colliery		
Period	01-Dec-17	to	31-Dec-17
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)
01/12/2017			
02/12/2017			
03/12/2017			
04/12/2017			
05/12/2017			
06/12/2017	7.9	3	<5
07/12/2017			
08/12/2017			
09/12/2017			
10/12/2017			
11/12/2017			
12/12/2017	7.7	1	<5
13/12/2017			
14/12/2017			
15/12/2017			
16/12/2017			
17/12/2017			
18/12/2017			
19/12/2017			
20/12/2017			
21/12/2017	7.9	4	<5
22/12/2017			
23/12/2017			
24/12/2017			
25/12/2017			
26/12/2017			
27/12/2017	8	4	<5
28/12/2017			
29/12/2017			
30/12/2017			
31/12/2017			

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## Water – Volume

December 2017		
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)	
Day	Unit	Volume
01/12/2017	kL	2103
02/12/2017	kL	20
03/12/2017	kL	38
04/12/2017	kL	564
05/12/2017	kL	1842
06/12/2017	kL	652
07/12/2017	kL	990
08/12/2017	kL	1391
09/12/2017	kL	1176
10/12/2017	kL	1418
11/12/2017	kL	0
12/12/2017	kL	665
13/12/2017	kL	1480
14/12/2017	kL	288
15/12/2017	kL	0
16/12/2017	kL	1039
17/12/2017	kL	1864
18/12/2017	kL	1852
19/12/2017	kL	246
20/12/2017	kL	655
21/12/2017	kL	1860
22/12/2017	kL	1385
23/12/2017	kL	0
24/12/2017	kL	0
25/12/2017	kL	0
26/12/2017	kL	0
27/12/2017	kL	1097
28/12/2017	kL	1785
29/12/2017	kL	1605
30/12/2017	kL	1615
31/12/2017	kL	419

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## Air Quality

### Monthly depositional dust results

Monthly Depositional Dust Data			
December 2017			
EPL	191		
Licensee	LakeCoal Pty Ltd		
Premises	Mannering Colliery		
Date Sampled	13-Nov-17	to	15-Dec-17
Date Obtained	27-Dec-17		
Date Reported	Refer report date		
Sampling Point	As per site below		

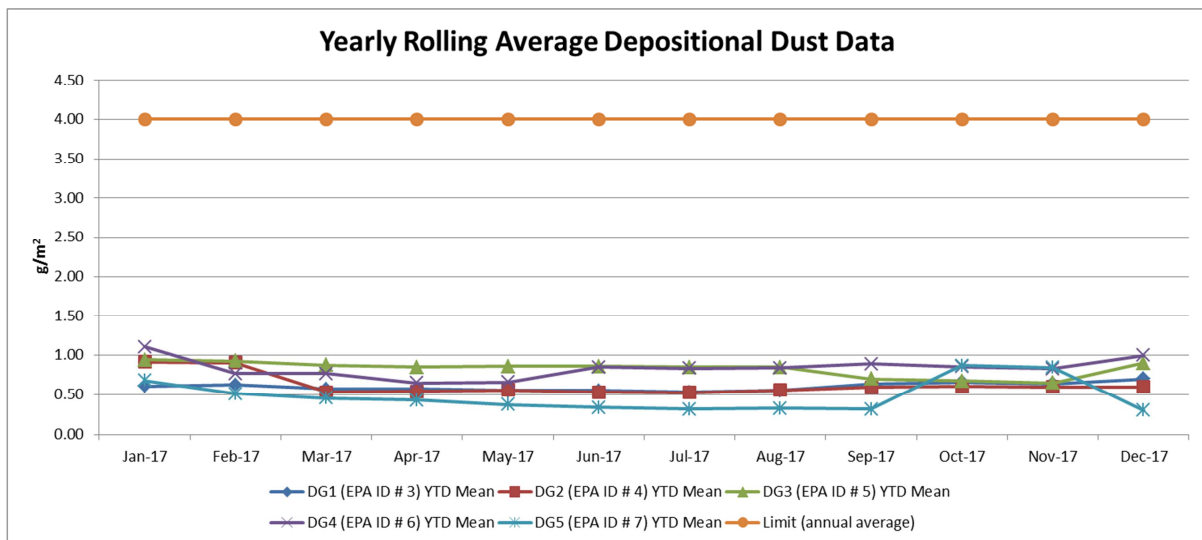
  

Site	Insoluble Matter (g/m <sup>2</sup> /month)
DG1 (EPA ID # 3)	1.0
DG2 (EPA ID # 4)	0.5
DG3 (EPA ID # 5)	2.0
DG4 (EPA ID # 6)	1.4
DG5 (EPA ID # 7)	0.7

Notes:
- For site locations refer to Air Quality Management Plan

### Rolling annual average depositional dust results



## Operational Noise

There were no exceedances of noise levels for the month. Report results to be provided when reports are finalised.

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## 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			
2017			
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:	14/01/2018		
Month	Total Rainfall / Month (mm)	Minimum Temperature (oC)	Maximum Temperature (oC)
Jan-17	68.6	17.4	40.1
Feb-17	141.2	13.1	39
Mar-17	404	14.5	31.9
Apr-17	85.6	17.4	24.8
May-17	34.8	11.5	24.8
Jun-17	169.2	5.1	19.9
Jul-17	5.6	3.9	24
Aug-17	14	4.7	28.2
Sep-17	12.6	4.9	33.6
Oct-17	92.4	12.6	36.4
Nov-17	46	10.3	30.1
Dec-17	48.6	15.6	41.4