

# 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 – January 2019</b>
<b>Prepared by:</b>	<b>Wade Covey</b>
<b>Report Date:</b>	<b>15/02/2019</b>
<b>Distribution:</b>	<b>Mannering Colliery Website</b>

# Report

Title: **Mannering Colliery Monthly Environmental Report**

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## Summary

Monitoring was undertaken in January 2019 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 January 2019 to 31 January 2019.

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;and
- Weather data

## Definitions

°C – degrees celsius

g/m<sup>2</sup>/month – grams per square metre per month

kL – kilolitres

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: 12 May 2017)

Steel River Testing - Dust Deposition Report – January 2019

Steel River Testing – Water Analysis Report – January 2019

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## Monitoring Results

### Water – Quality

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

January 2019			
<b>EPL</b>	191		
<b>Licensee</b>	LakeCoal Pty Ltd		
<b>Premises</b>	Mannering Colliery		
<b>Period</b>	01-Jan-19	to	31-Jan-19
<b>Location</b>	LDP001 (EPA ID # 1)		
<b>Date sampled</b>	Weekly		
<b>Date reported</b>	Refer report date		
<b>Monitoring requirement</b>	Weekly		
<b>pH limit</b>	6.5 - 8.5		
<b>TSS limit (mg/L)</b>	50		
<b>Oil and grease limit (mg/L)</b>	10		
<b>Exceedance (Yes/No)</b>	No		
Water Quality Results			
Date	pH	TSS (mg/L)	Oil and grease (mg/L)
Tuesday, 1 January 2019			
Wednesday, 2 January 2019			
Thursday, 3 January 2019			
Friday, 4 January 2019			
Saturday, 5 January 2019	7.7	2	<5
Sunday, 6 January 2019			
Monday, 7 January 2019			
Tuesday, 8 January 2019			
Wednesday, 9 January 2019			
Thursday, 10 January 2019			
Friday, 11 January 2019			
Saturday, 12 January 2019	7.9	3	<5
Sunday, 13 January 2019			
Monday, 14 January 2019			
Tuesday, 15 January 2019			
Wednesday, 16 January 2019			
Thursday, 17 January 2019			
Friday, 18 January 2019			
Saturday, 19 January 2019	7.8	1	<5
Sunday, 20 January 2019			
Monday, 21 January 2019			
Tuesday, 22 January 2019			
Wednesday, 23 January 2019			
Thursday, 24 January 2019			
Friday, 25 January 2019			
Saturday, 26 January 2019			
Sunday, 27 January 2019	7.8	1	<5
Monday, 28 January 2019			
Tuesday, 29 January 2019			
Wednesday, 30 January 2019			
Thursday, 31 January 2019			

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## Water – Volume

January 2019	
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
01/01/2019	kL	0
02/01/2019	kL	1337
03/01/2019	kL	1654
04/01/2019	kL	146
05/01/2019	kL	0
06/01/2019	kL	275
07/01/2019	kL	1704
08/01/2019	kL	907
09/01/2019	kL	1154
10/01/2019	kL	0
11/01/2019	kL	0
12/01/2019	kL	935
13/01/2019	kL	1498
14/01/2019	kL	2255
15/01/2019	kL	1131
16/01/2019	kL	380
17/01/2019	kL	1522
18/01/2019	kL	717
19/01/2019	kL	0
20/01/2019	kL	0
21/01/2019	kL	1558
22/01/2019	kL	1500
23/01/2019	kL	1473
24/01/2019	kL	878
25/01/2019	kL	1551
26/01/2019	kL	250
27/01/2019	kL	0
28/01/2019	kL	323
29/01/2019	kL	1843
30/01/2019	kL	1244
31/01/2019	kL	934

Average	kL	876
Minimum	kL	0
Maximum	kL	2255

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## Air Quality

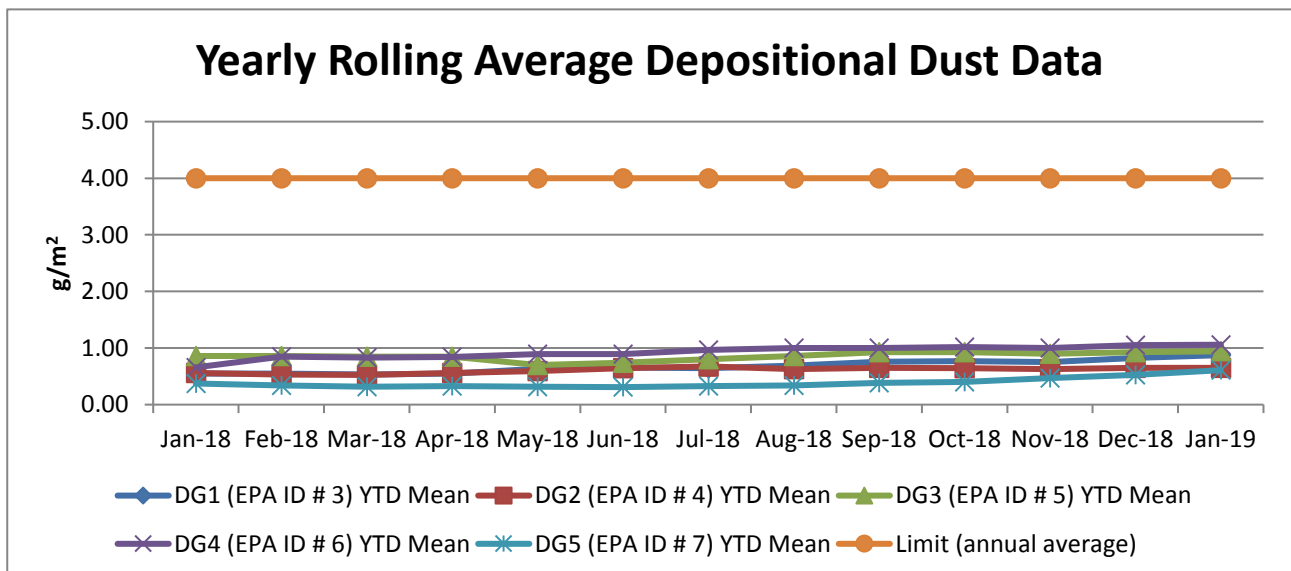
### Monthly depositional dust results

Monthly Depositional Dust Data			
January 2019			
EPL	191		
Licensee	LakeCoal Pty Ltd		
Premises	Mannering Colliery		
Date Sampled	10-Dec-18	to	09-Jan-19
Date Obtained	21-Jan-19		
Date Reported	Refer report date		
Sampling Point	As per site below		

Site	Insoluble Matter (g/m <sup>2</sup> /month)
DG1 (EPA ID # 3)	1.9
DG2 (EPA ID # 4)	2.3
DG3 (EPA ID # 5)	2.1
DG4 (EPA ID # 6)	2.9
DG5 (EPA ID # 7)	3.4

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

### Rolling annual average depositional dust results



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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			
2019			
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:	04/01/2019		
Month	Total Rainfall / Month (mm)	Minimum Temperature (c°)	Maximum Temperature (c°)
Jan-19	60.6	18.6	39.6
Feb-19			
Mar-19			
Apr-19			
May-19			
Jun-19			
Jul-19			
Aug-19			
Sep-19			
Oct-19			
Nov-19			
Dec-19			
	60.6	18.6	39.6