

# 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 – October 2018</b>
<b>Prepared by:</b>	<b>Wade Covey</b>
<b>Report Date:</b>	<b>14/11/2018</b>
<b>Distribution:</b>	<b>Mannering Colliery Website</b>

# Report

Title: **Mannering Colliery Monthly Environmental Report**

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# Report

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## Summary

Monitoring was undertaken in October 2018 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 October 2018 to 31 October 2018.

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.

# Report

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 – October 2018

Steel River Testing – Water Analysis Report – October 2018

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## Monitoring Results

### Water – Quality

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

October 2018			
<b>EPL</b>	191		
<b>Licensee</b>	LakeCoal Pty Ltd		
<b>Premises</b>	Mannering Colliery		
<b>Period</b>	01-Oct-18	to	31-Oct-18
<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)
Monday, 1 October 2018			
Tuesday, 2 October 2018	7.7	<1	<5
Wednesday, 3 October 2018			
Thursday, 4 October 2018			
Friday, 5 October 2018			
Saturday, 6 October 2018			
Sunday, 7 October 2018			
Monday, 8 October 2018			
Tuesday, 9 October 2018			
Wednesday, 10 October 2018	7.8	2	<5
Thursday, 11 October 2018			
Friday, 12 October 2018			
Saturday, 13 October 2018			
Sunday, 14 October 2018			
Monday, 15 October 2018			
Tuesday, 16 October 2018			
Wednesday, 17 October 2018			
Thursday, 18 October 2018	7.8	1	<5
Friday, 19 October 2018			
Saturday, 20 October 2018			
Sunday, 21 October 2018			
Monday, 22 October 2018			
Tuesday, 23 October 2018			
Wednesday, 24 October 2018			
Thursday, 25 October 2018	7.7	12	<5
Friday, 26 October 2018			
Saturday, 27 October 2018			
Sunday, 28 October 2018			
Monday, 29 October 2018			
Tuesday, 30 October 2018			
Wednesday, 31 October 2018	7.8	3	<5
<b>Average</b>	7.8	4.5	<5
<b>Minimum</b>	7.7	1.0	<5
<b>Maximum</b>	7.8	12.0	<5

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## Water – Volume

October 2018	
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
01/10/2018	kL	594
02/10/2018	kL	1613
03/10/2018	kL	1933
04/10/2018	kL	630
05/10/2018	kL	913
06/10/2018	kL	2256
07/10/2018	kL	1181
08/10/2018	kL	1006
09/10/2018	kL	907
10/10/2018	kL	1718
11/10/2018	kL	1570
12/10/2018	kL	151
13/10/2018	kL	568
14/10/2018	kL	1772
15/10/2018	kL	2516
16/10/2018	kL	603
17/10/2018	kL	1536
18/10/2018	kL	1025
19/10/2018	kL	360
20/10/2018	kL	457
21/10/2018	kL	1512
22/10/2018	kL	1246
23/10/2018	kL	1023
24/10/2018	kL	1588
25/10/2018	kL	1117
26/10/2018	kL	198
27/10/2018	kL	0
28/10/2018	kL	430
29/10/2018	kL	1998
30/10/2018	kL	1960
31/10/2018	kL	1850

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## Air Quality

### Monthly depositional dust results

Monthly Depositional Dust Data			
October 2018			
EPL	191		
Licensee	LakeCoal Pty Ltd		
Premises	Mannering Colliery		
Date Sampled	10-Sep-18	to	11-Oct-18
Date Obtained	17-Oct-18		
Date Reported	Refer report date		
Sampling Point	As per site below		

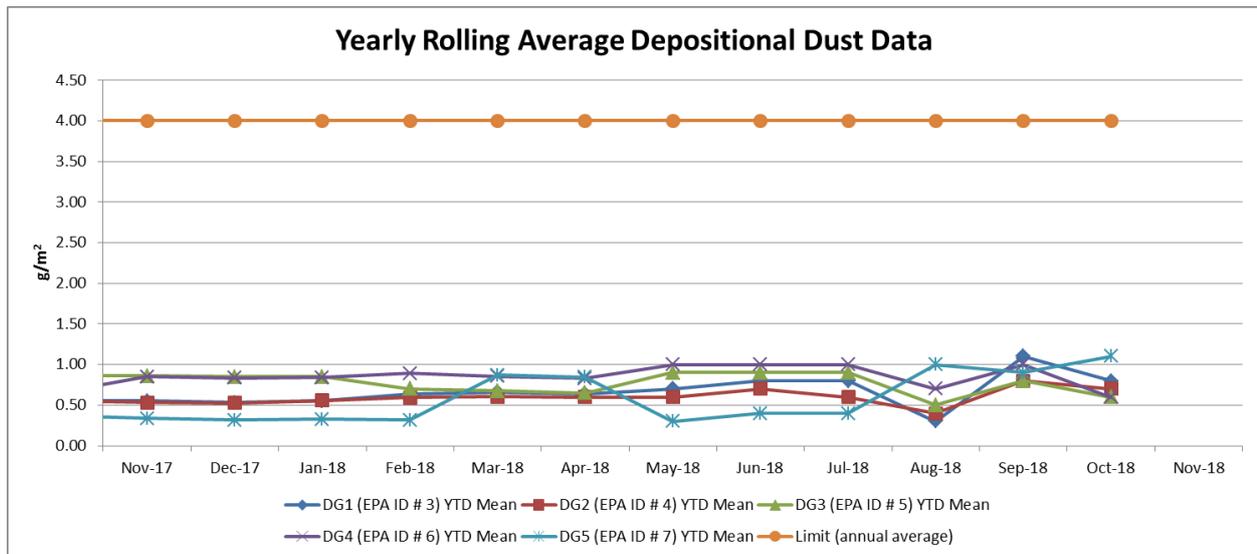
  

Site	Insoluble Matter (g/m <sup>2</sup> /month)
DG1 (EPA ID # 3)	0.4
DG2 (EPA ID # 4)	0.5
DG3 (EPA ID # 5)	0.4
DG4 (EPA ID # 6)	0.9
DG5 (EPA ID # 7)	0.5

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

### Rolling annual average depositional dust 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.

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Monthly Weather Data			
2018			
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:	11/11/2018		
Month	Total Rainfall / Month (mm)	Minimum Temperature (c°)	Maximum Temperature (c°)
Jan-18	23.4	13.8	42.5
Feb-18	124.2	14.1	38.0
Mar-18	55.6	10.5	38.1
Apr-18	70.6	11.7	33.8
May-18	18.6	7.3	27.6
Jun-18	289.0	5.1	19.7
Jul-18	6.4	2.3	24.7
Aug-18	56.8	3.9	24.5
Sep-18	65.6	6.3	32.2
Oct-18	259.2	8.2	29.5
Nov-18			
Dec-18			