

# 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 – September 2018</b>
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<b>Report Date:</b>	<b>16/10/2018</b>
<b>Distribution:</b>	<b>Mannering Colliery Website</b>

# Report

Title: **Mannering Colliery Monthly Environmental Report**

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# Report

Title:

Manning Colliery Monthly Environmental Report

## Summary

Monitoring was undertaken in September 2018 with all results in compliance with the required limits.

## Introduction

LakeCoal Pty Ltd (LakeCoal) operates the Manning 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 Manning Colliery for the period 1 September 2018 to 30 September 2018.

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

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

<b>Manning Colliery Information</b>	
Premises name	Manning 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 Manning Colliery and maintain a transparent and accountable reporting system.

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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 – September 2018

Steel River Testing – Water Analysis Report – September 2018

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## Monitoring Results

### Water – Quality

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

September 2018			
<b>EPL</b>	191		
<b>Licensee</b>	LakeCoal Pty Ltd		
<b>Premises</b>	Mannering Colliery		
<b>Period</b>	01-Sep-18	to	30-Sep-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)
Saturday, 1 September 2018			
Sunday, 2 September 2018			
Monday, 3 September 2018			
Tuesday, 4 September 2018			
Wednesday, 5 September 2018			
Thursday, 6 September 2018			
Friday, 7 September 2018	7.8	1	<5
Saturday, 8 September 2018			
Sunday, 9 September 2018			
Monday, 10 September 2018			
Tuesday, 11 September 2018	7.7	2	<5
Wednesday, 12 September 2018			
Thursday, 13 September 2018			
Friday, 14 September 2018			
Saturday, 15 September 2018			
Sunday, 16 September 2018			
Monday, 17 September 2018			
Tuesday, 18 September 2018	7.9	<1	<5
Wednesday, 19 September 2018			
Thursday, 20 September 2018			
Friday, 21 September 2018			
Saturday, 22 September 2018			
Sunday, 23 September 2018			
Monday, 24 September 2018			
Tuesday, 25 September 2018	7.8	1	<5
Wednesday, 26 September 2018			
Thursday, 27 September 2018			
Friday, 28 September 2018			
Saturday, 29 September 2018			
Sunday, 30 September 2018			

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## Water – Volume

September 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
01/09/2018	kL	0
02/09/2018	kL	0
03/09/2018	kL	386
04/09/2018	kL	1541
05/09/2018	kL	1513
06/09/2018	kL	753
07/09/2018	kL	37
08/09/2018	kL	9
09/09/2018	kL	1379
10/09/2018	kL	1557
11/09/2018	kL	2453
12/09/2018	kL	1052
13/09/2018	kL	566
14/09/2018	kL	1306
15/09/2018	kL	0
16/09/2018	kL	401
17/09/2018	kL	59
18/09/2018	kL	936
19/09/2018	kL	1454
20/09/2018	kL	1401
21/09/2018	kL	1161
22/09/2018	kL	0
23/09/2018	kL	0
24/09/2018	kL	1205
25/09/2018	kL	1222
26/09/2018	kL	2304
27/09/2018	kL	1112
28/09/2018	kL	285
29/09/2018	kL	0
30/09/2018	kL	1127

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## Air Quality

### Monthly depositional dust results

Monthly Depositional Dust Data			
September 2018			
EPL	191		
Licensee	LakeCoal Pty Ltd		
Premises	Mannering Colliery		
Date Sampled	13-Aug-18	to	10-Sep-18
Date Obtained	17-Sep-18		
Date Reported	Refer report date		
Sampling Point	As per site below		

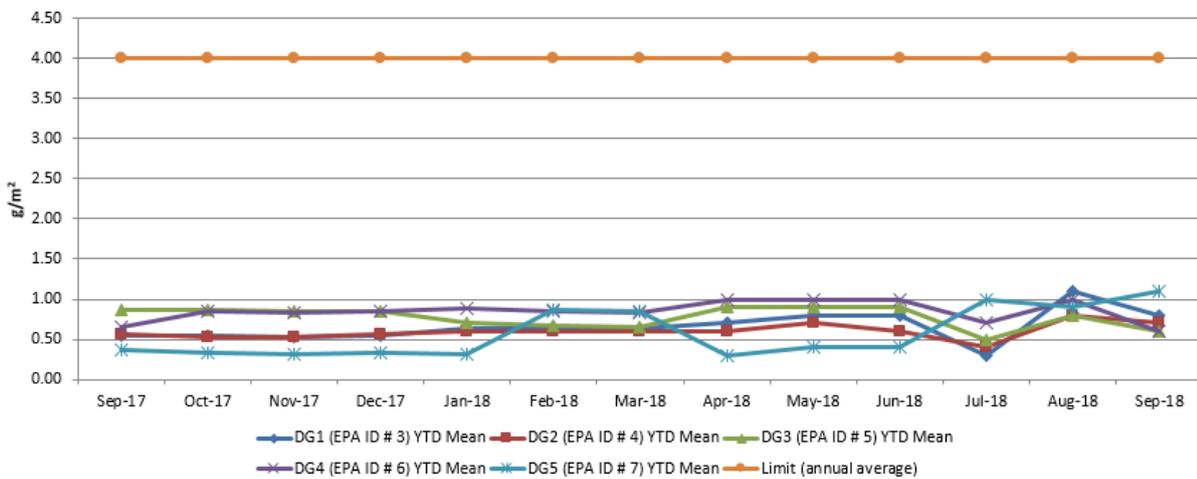
Site	Insoluble Matter (g/m <sup>2</sup> /month)
DG1 (EPA ID # 3)	0.8
DG2 (EPA ID # 4)	1.2
DG3 (EPA ID # 5)	0.9
DG4 (EPA ID # 6)	1.5
DG5 (EPA ID # 7)	0.9

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

### Rolling annual average depositional dust results

Yearly Rolling Average Depositional Dust Data



## 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:	15/10/2018		
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			
Nov-18			
Dec-18			