

Monthly Website Report

SITE:	Mannering Colliery
Department:	Technical Services
REPORT TITLE:	Monthly Environmental Report – March 2019
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Distribution:	Mannering Colliery and Delta Coal Website

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Title: Mannering Colliery Monthly Environmental Report

Summary

Monitoring was undertaken in March 2019 with all results in compliance with the required limits.

Introduction

Great Southern Energy Pty Ltd (trading as Delta Coal) 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 March 2019 to 31 March 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.

Mannering Colliery Information	
Premises name	Mannering Colliery
Address	Rutleys Road, Doyalson, NSW, 2262
Licensee	Great Southern Energy
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.

Report

Title:

Mannering Colliery Monthly Environmental Report

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;and
- Weather data

Definitions

°C – degrees celsius

g/m²/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 – March 2019

Steel River Testing – Water Analysis Report – March 2019

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Monitoring Results

Water – Quality

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

March 2019			
EPL	191		
Licensee	LakeCoal Pty Ltd		
Premises	Mannering Colliery		
Period	01-Mar-19	to	31-Mar-19
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)
Friday, 1 March 2019			
Saturday, 2 March 2019			
Sunday, 3 March 2019			
Monday, 4 March 2019			
Tuesday, 5 February 2019			
Wednesday, 6 March 2019			
Thursday, 7 March 2019	8.2	5	<5
Friday, 8 March 2019			
Saturday, 9 March 2019			
Sunday, 10 March 2019			
Monday, 11 March 2019			
Tuesday, 12 March 2019	8	1	<5
Wednesday, 13 March 2019			
Thursday, 14 March 2019			
Friday, 15 March 2019			
Saturday, 16 March 2019			
Sunday, 17 March 2019			
Monday, 18 March 2019			
Tuesday, 19 March 2019			
Wednesday, 20 March 2019			
Thursday, 21 March 2019			
Friday, 22 March 2019	8.2	5	<5
Saturday, 23 March 2019			
Sunday, 24 March 2019			
Monday, 25 March 2019			
Tuesday, 26 March 2019			
Wednesday, 27 March 2019			
Thursday, 28 March 2019	7.9	12	<5
Friday, 29 March 2019			
Saturday, 30 March 2019			
Sunday, 31 March 2019			
Average	8.1	5.8	<5
Minimum	7.9	1.0	<5
Maximum	8.2	12.0	<5

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Water – Volume

March 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
01/03/2019	kL	0
02/03/2019	kL	118
03/03/2019	kL	1003
04/03/2019	kL	1570
05/03/2019	kL	1559
06/03/2019	kL	1773
07/03/2019	kL	0
08/03/2019	kL	0
09/03/2019	kL	0
10/03/2019	kL	0
11/03/2019	kL	0
12/03/2019	kL	0
13/03/2019	kL	0
14/03/2019	kL	0
15/03/2019	kL	0
16/03/2019	kL	0
17/03/2019	kL	940
18/03/2019	kL	85
19/03/2019	kL	289
20/03/2019	kL	0
21/03/2019	kL	451
22/03/2019	kL	0
23/03/2019	kL	0
24/03/2019	kL	0
25/03/2019	kL	342
26/03/2019	kL	0
27/03/2019	kL	0
28/03/2019	kL	0
29/03/2019	kL	0
30/03/2019	kL	210
31/03/2019	kL	33

Average	kL	270
Minimum	kL	0
Maximum	kL	1773

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Air Quality

Monthly depositional dust results

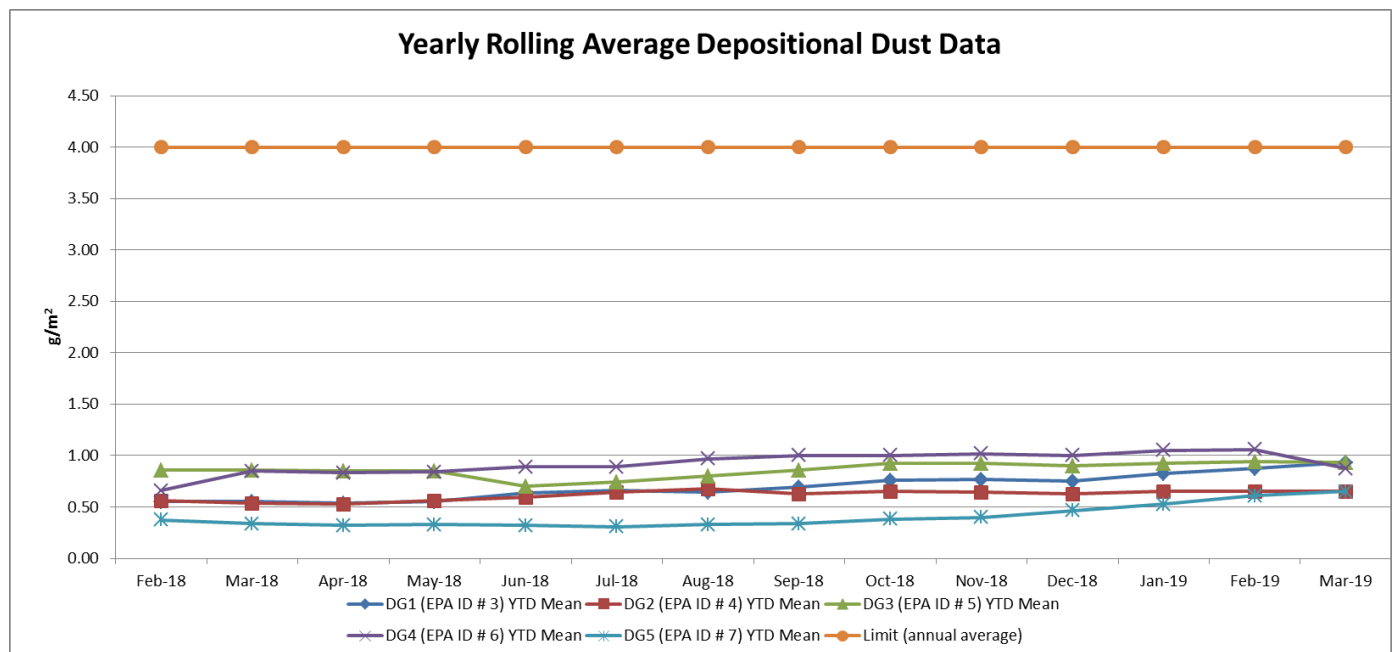
March 2019			
EPL	191		
Licensee	LakeCoal Pty Ltd		
Premises	Mannering Colliery		
Date Sampled	08-Mar-19	to	11-Mar-19
Date Obtained	15-Mar-19		
Date Reported	Refer report date		
Sampling Point	As per site below		

Site	Insoluble Matter (g/m2/month)
DG1 (EPA ID # 3)	1.8
DG2 (EPA ID # 4)	1.3
DG3 (EPA ID # 5)	1.7
DG4 (EPA ID # 6)	1.6
DG5 (EPA ID # 7)	1.4

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	Delta Coal Pty Ltd		
Premises	Mannering Colliery		
Location	W1 (on-site weather station)		
Date published	Refer report date		
Date sampled	Daily		
Date obtained	09/04/2019		
Month	Total Rainfall/Month mm	Min Temp	Max Temp
Jan-19	60.6	18.6	39.6
Feb-19	88.6	22.7	37.4
Mar-19	204	10.1	37.1
	353.2	51.4	114.1