



Report

Site:	Chain Valley Colliery
Department:	Technical Services
Report Title:	Monthly Environmental Report - September 2018
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Table of Contents

Introduction	3
Scope.....	4
Definitions.....	4
References	5
Monitoring Results.....	5
Water – Quality	5
Water – Volume.....	6
Depositional Dust	6
Operational Noise.....	7
Weather Data	7

Introduction

LakeCoal Pty Ltd (LakeCoal) operates the Chain Valley Colliery, an underground coal mine at the southern end of Lake Macquarie.

Chain Valley Colliery operates under the following regulatory instruments;

- A Development Consent, SSD-5465 (as modified) issued under the Environmental Planning and Assessment Act, 1979.
- An Environment Protection Licence (1770) issued under the Protection of the Environment Operations Act, 1997.
- A groundwater bore licence (20BL173107) issued under the Water Act, 1912.

The above development consent/approval and licences require various monitoring and reporting to be undertaken by LakeCoal for Chain Valley Colliery.

This report provides environmental monitoring data from Chain Valley Colliery for the period 1 September 2018 to 30 September 2018.

Details of the Chain Valley Colliery EPL 1770 are provided below.

Chain Valley Colliery Information	
Premises name	Chain Valley Colliery
Address	Construction Road, Chain Valley Bay, NSW, 2259
Licensee	LakeCoal Pty Ltd
EPL #	1770
EPL location	http://www.epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=50980&SYSUID=1&LICID=1770

The overall purpose of this report is to keep stakeholders informed of the environmental monitoring results at Chain Valley Colliery and maintain a transparent and accountable reporting system.

Scope

This report presents the results from the various environmental monitoring programs undertaken for Chain Valley Colliery.

Results in this report are typically only a single month of data, which is due to a legislative requirement introduced by the *Protection of the Environment Legislation Amendment Act 2011*, which requires publishing data publically within 14 days. As LakeCoal is required to undertake monitoring on a monthly basis, each report generally cover a single month of environmental monitoring data.

Where applicable, the results of the monitoring programs are compared with the relevant criteria (from the EPL or Development Consent) to determine compliance.

Monitoring results presented include;

- Water – quality
- Water – volume
- Depositional dust
- Operational noise
- Weather data

Definitions

dB– decibels

dB(A) – noise level measurement units are decibels (dB). The A-weighting scale is used to approximate human perception of noise

g/m²/month – grams per square metre per month

kL– kilolitres

L_{Aeq}–the average A-weighted noise energy (in dB) for a measurement period

mg/L – milligrams per litre

µg/L – micrograms per litre

µS/cm – microSiemens per centimetre

References

ALS Group - Monthly Water Monitoring Results September 2018

ALS Water - Report of Analysis

Steel River Testing - Dust Deposition Report September 2018

Development Consent SSD-5465 (as modified)

Environment Protection Licence 1770 (Licence version date: 8 June 2016)

Monitoring Results

Water – Quality

September 2018	
EPL	1770
Licensee	LakeCoal Pty Ltd
Premises	Chain Valley Colliery
Date Sampled	18-Sep-18
Date Obtained	20-Sep-18
Date Reported	Refer report date
Sampling Point	1

Parameter	Units	Limit	Result
Biochem. Oxygen Demand	mg/L	-	<2
Enterococci	col/100mL	-	49
Faecal Coliforms	CFU/100mL	200	7
pH	pH	6.5-8.5	7.79
Total Sus. Solids	mg/L	50	11

There was no exceedance of water quality criteria during the month.

Water – Volume

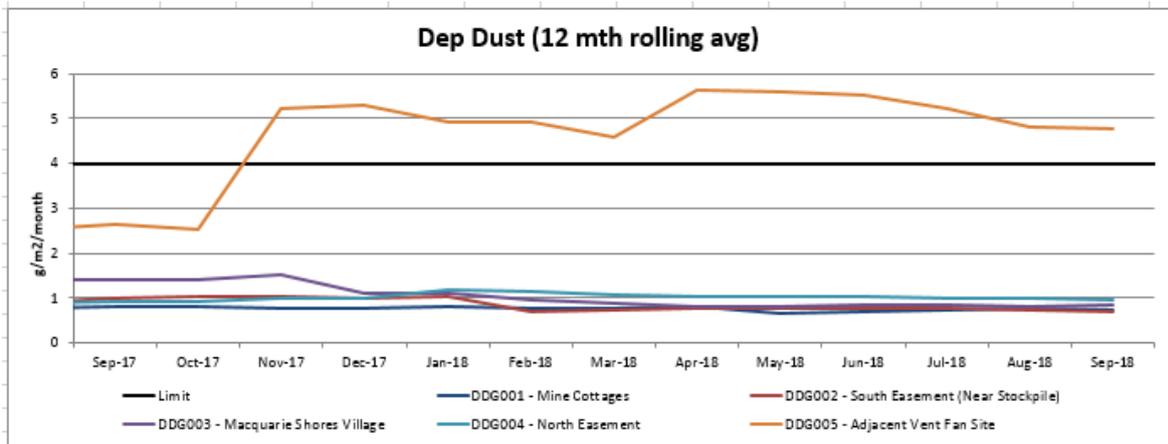
September 2018	
EPL	1770
Licensee	LakeCoal Pty Ltd
Premises	Chain Valley Colliery
Date Sampled	Daily
Date Reported	Refer report date
Discharge volume limit	12161 kilolitres per day
Sampling Point	1

Date (24 hour period)	Unit	Volume
01/09/2018	kL	6691
02/09/2018	kL	7230
03/09/2018	kL	7273
04/09/2018	kL	7437
05/09/2018	kL	8551
06/09/2018	kL	5691
07/09/2018	kL	6186
08/09/2018	kL	6898
09/09/2018	kL	6777
10/09/2018	kL	7858
11/09/2018	kL	6334
12/09/2018	kL	6837
13/09/2018	kL	8143
14/09/2018	kL	6438
15/09/2018	kL	6791
16/09/2018	kL	8235
17/09/2018	kL	6967
18/09/2018	kL	6223
19/09/2018	kL	8392
20/09/2018	kL	6598
21/09/2018	kL	6946
22/09/2018	kL	7274
23/09/2018	kL	7268
24/09/2018	kL	7426
25/09/2018	kL	7414
26/09/2018	kL	6349
27/09/2018	kL	6376
28/09/2018	kL	7209
29/09/2018	kL	7243
30/09/2018	kL	7301

There were no exceedances of the volumetric limits at the Licenced Discharge Point during the month.

Depositional Dust

September 2018			
Sampling Date	13/08/2018	to	10/09/2018
Site	Insoluble Matter (g/m ² /month)		
DDG001	0.7		
DDG002	0.8		
DDG003	0.9		
DDG004	0.8		
DDG005	1.2		
Notes:			



There were no exceedances of the annual average air quality limits during the reporting period.

Operational Noise

There were no exceedances of the site noise monitoring criteria during the month.

Weather Data

A summary of weather data recorded by an adjacent site meteorological monitoring station at the Colliery is presented below for the year to date.

Monthly Weather Data			
2018			
EPL	191		
Licensee	LakeCoal Pty Ltd		
Premises	Manning 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			