



Report

Site:	Chain Valley Colliery
Department:	Technical Services
Report Title:	Monthly Environmental Website Report - January 2019
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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 January 2019 to 31 January 2019**.

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 **January 2019**

ALS Water - Report of Analysis

Steel River Testing - Dust Deposition Report **January 2019**

Development Consent SSD-5465 (as modified)

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

Monitoring Results

Water – Quality

January 2019			
EPL	1770		
Licensee	LakeCoal Pty Ltd		
Premises	Chain Valley Colliery		
Date Sampled	22-Jan-19		
Date Obtained	22-Jan-19		
Date Reported	Refer report date		
Sampling Point	1		

Parameter	Units	Limit	Result
Biochem. Oxygen Demand	mg/L	-	<2
Enterococci	col/100mL	-	170
Faecal Coliforms	CFU/100mL	200	20
pH	pH	6.5-8.5	7.47
Total Sus. Solids	mg/L	50	8

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

Water – Volume

January 2019	
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
01/01/2019	kL	4630
02/01/2019	kL	4506
03/01/2019	kL	7938
04/01/2019	kL	7678
05/01/2019	kL	7945
06/01/2019	kL	7774
07/01/2019	kL	8957
08/01/2019	kL	7700
09/01/2019	kL	7253
10/01/2019	kL	7736
11/01/2019	kL	7250
12/01/2019	kL	6250
13/01/2019	kL	8953
14/01/2019	kL	7968
15/01/2019	kL	7646
16/01/2019	kL	6001
17/01/2019	kL	7555
18/01/2019	kL	7597
19/01/2019	kL	7931
20/01/2019	kL	7635
21/01/2019	kL	8230
22/01/2019	kL	7051
23/01/2019	kL	7916
24/01/2019	kL	7213
25/01/2019	kL	7001
26/01/2019	kL	6264
27/01/2019	kL	6374
28/01/2019	kL	8965
29/01/2019	kL	7414
30/01/2019	kL	7323
31/01/2019	kL	6764

Average	kL	7336
Minimum	kL	4506
Maximum	kL	8965

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

Depositional Dust

January 2019	
Sampling Date	10/12/2018 to 09/01/2019
Site	Insoluble Matter (g/m ² /month)
DDG001	1.9
DDG002	2.3
DDG003	2.1
DDG004	2.9
DDG005	3.4
Notes:	

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

Operational Noise

No monitoring undertaken in **January**.

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			
2019			
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:	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