

Report

Site:	Chain Valley Colliery
Department:	Technical Services
Report Title:	Monthly Environmental Report - January 2018
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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 2018 to 31 December 2018.

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&SYS UID=1&LICID=1770	

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

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

 μ S/cm – microSiemens per centimetre



References

ALS Group - Monthly Water Monitoring Results January 2018 – (Work Order ES1801411)

ALS Water - Report of Analysis (WN1800142)

Steel River Testing - Dust Deposition Report January 2018 (Report 15185-0)

Development Consent SSD-5465 (as modified)

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

Monitoring Results

Water – Quality

	January 2018		
EPL	1770		
Licensee	LakeCoal Pty Ltd		
Premises	Chain Valley Colliery		
Date Sampled	09-Jan-18		
Date Obtained	16-Jan-18		
Date Reported	Refer report date		
Sampling Point	1		
Parameter	Units	Limit	Result
Biochem. Oxygen Demand	mg/L	-	<2
Enterococci	col/100mL	-	460
Faecal Coliforms	CFU/100mL	200	11
pH	pН	6.5-8.5	7.73
Total Sus. Solids	mg/L	50	19

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



Water – Volume

	January 2018	
EPL	1770	
Licensee	LakeCoal Pty Ltd	
Premises	Chain Valley Collier	/
Date Sampled	Daily	
Date Reported	Refer report date	
Discharge volume limit	12161 kilolitres per day	
Sampling Point	1	
Date (24 hour period)	Unit	Volume
01/12/2017	kL	6654
02/12/2017	kL	6553
03/12/2017	kL	4963
04/12/2017	kL	306
05/12/2017	kL	305
06/12/2017	kL	514
07/12/2017	kL	6276
08/12/2017	kL	6348
09/12/2017	kL	6188
10/12/2017	kL	6413
11/12/2017	kL	6608
12/12/2017	kL	6563
13/12/2017	kL	6391
14/12/2017	kL	5999
15/12/2017	kL	6372
16/12/2017	kL	5722
17/12/2017	kL	6013
18/12/2017	kL	4731
19/12/2017	kL	4555
20/12/2017	kL	5712
21/12/2017	kL	6560
22/12/2017	kL	6282
23/12/2017	kL	6183
24/12/2017	kL	6244
25/12/2017	kL	692
26/12/2017	kL	667
27/12/2017	kL	6466
28/12/2017	kL	6432
29/12/2017	kL	637
30/12/2017	kL	6376
31/12/2017	kL	6291

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

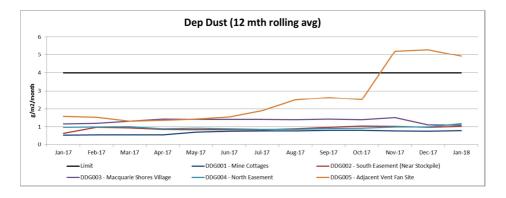
Depositional Dust

January 2018			
Sampling Date	15/12/2017 to	15/01/2018	
Site	Insoluble Matter (g/m2/r	nonth)	
DDG001	1.1		
DDG002	1.0		
DDG003	0.8		
DDG004	2.8		
DDG005	1.2		

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

Operational Noise

There was no noise monitoring undertaken 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	Mannering Colliery		
Location	W1 (on-site weather station)		
Date published:	Refer report date		
Date sampled:	Daily		
Date obtained:	15/02/2018		
			Maximum
	Total Rainfall / Month	Minimum	Temperature
Month	(mm)	Temperature (oC)	(oC)
Jan-18	23.4	13.8	42.5
Feb-18			
Mar-18			
Apr-18			
May-18			
Jun-18			
Jul-18			
Aug-18			
Sep-18			
Oct-18			
Nov-18			
Dec-18			