

# Report

Site:	Chain Valley Colliery
Department:	Technical Services
Report Title:	Monthly Environmental Report - May 2017
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## Report



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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 May 2017 to 31 May 2017.

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/m<sup>2</sup>/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

 $\mu$ S/cm – microSiemens per centimetre



### References

ALS Group - Monthly Water Monitoring Results May 2017 - Work Order ES1709235)

ALS Water - Report of Analysis (WN1701631)

Steel River Testing - Dust Deposition Report May 2017 (Report 13398-0)

Development Consent SSD-5465 (as modified)

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

### **Monitoring Results**

Water – Quality

May 2017					
EPL	1770				
Licensee	LakeCoal Pty Lt	d			
Premises	Chain Valley Co				
Date Sampled	08-May-17				
Date Obtained	16-May-17				
Date Reported	Refer report date				
Sampling Point	1				
Parameter	Units	Limit	Result		
Biochem. Oxygen Dema	mg/L	-	<2		
Enterococci	col/100mL	-	73		
Faecal Coliforms	CFU/100mL	200	93		
рН	pН	6.5-8.5	7.70		
Total Sus. Solids	mg/L	50	<5		

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



Water – Volume

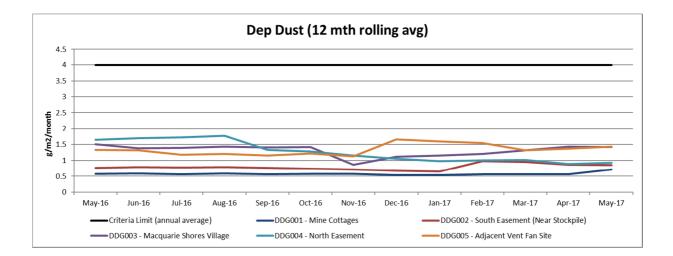
	May 2017		
EPL	1770		
Licensee	LakeCoal Pty Lt	d	
Premises	Chain Valley Colliery		
Date Sampled	Daily		
Date Reported	Refer report date		
Discharge volume limit	12161 kilolitres		
Sampling Point	1		
eaniping rom			
Date (24 hour period)	Unit	Volume	
01/05/2017	kL	6694	
02/05/2017	kL	6650	
03/05/2017	kL	6654	
04/05/2017	kL	3761	
05/05/2017	kL	786	
06/05/2017	kL	8298	
07/05/2017	kL	7726	
08/05/2017	kL	4803	
09/05/2017	kL	4037	
10/05/2017	kL	5559	
11/05/2017	kL	6881	
12/05/2017	kL	5453	
13/05/2017	kL	8377	
14/05/2017	kL	4632	
15/05/2017	kL	1016	
16/05/2017	kL	6170	
17/05/2017	kL	6004	
18/05/2017	kL	5349	
19/05/2017	kL	5681	
20/05/2017	kL	6715	
21/05/2017	kL	6503	
22/05/2017	kL	6079	
23/05/2017	kL	4516	
24/05/2017	kL	5894	
25/05/2017	kL	6367	
26/05/2017	kL	6473	
27/05/2017	kL	6647	
28/05/2017	kL	6968	
29/05/2017	kL	7073	
30/05/2017	kL	7119	
31/05/2017	kL	7208	

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



#### **Depositional Dust**

	May 2017					
Sampling Date		12/04/2017 t	:0	12/05/2017		
Site	Insolub	le Matter (g/	m2/mont	h)		
DDG001	2.1					
DDG002	0.4					
DDG003	0.3					
DDG004	0.8					
DDG005	1.3					
Notes:						
- For site locations	refer to Air	Ouality Mana	agement I	Plan		
			-8			



#### **Operational Noise**

There was no noise monitoring undertaken in May. The next round of monitoring is scheduled for June 2017.

#### 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.

