

LDO GROUP Report



SITE:	Chain Valley Colliery
Department:	HSEC
REPORT TITLE:	Monthly Environmental Report – May 2015
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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 2015 to 31 May 2015.

Details of the Chain Valley Colliery and 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 (May 2015 - Work Order ES1521736)

ALS Water - Report of Analysis (HWA-15/03615)

Steel River Testing - Dust Deposition Report May 2015 (Report 8888-0)

Development Consent SSD-5465 (as modified)

Environment Protection Licence 1770 (Licence version date: 15 May 2015)

Monitoring Results

Water – Quality

May 2015			
EPL	1770		
Licensee	LakeCoal Pty Ltd		
Premises	Chain Valley Colliery		
Date Sampled	12-May-15		
Date Obtained	19-May-15		
Date Reported	Refer report date		
Sampling Point	1		
Parameter	Units	Limit	Result
Biochem. Oxygen Demand	mg/L		<2
Enterococci	CFU/100mL		31
Faecal Coliforms	CFU/100mL	200	16
pH	pH	6.5-8.5	7.96
Total Sus. Solids	mg/L	50	114

In May the total suspended solids result exceeded the 50 mg/L criteria, with a result of 114 mg/L. A self report was made to the EPA environment line and a written report on the incident was subsequently provided to the EPA.

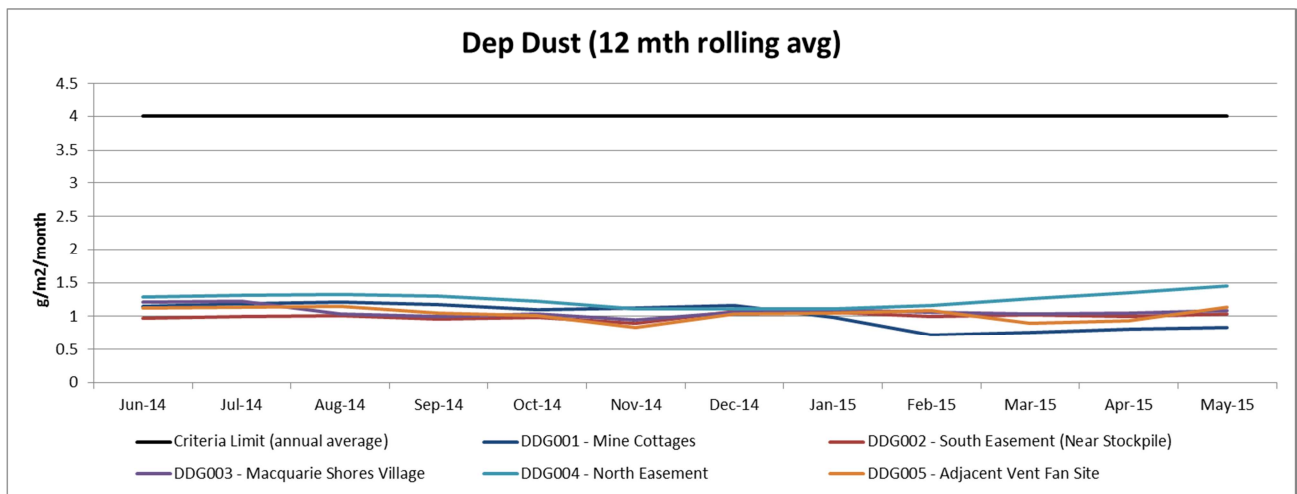
The exceedance was determined to be caused by the process of cleaning out the sediment dams, which was occurring at the time the elevated total suspended solids result was recorded. Following detection of the exceedance, total suspended solids were resampled at the licenced discharge point and recorded a result of 6 mg/L.

Water – Volume

May 2015		
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
01/05/2015	kL	8835
02/05/2015	kL	6473
03/05/2015	kL	7054
04/05/2015	kL	4995
05/05/2015	kL	6064
06/05/2015	kL	4775
07/05/2015	kL	6152
08/05/2015	kL	3265
09/05/2015	kL	6311
10/05/2015	kL	6373
11/05/2015	kL	6372
12/05/2015	kL	5140
13/05/2015	kL	3544
14/05/2015	kL	5880
15/05/2015	kL	5148
16/05/2015	kL	6356
17/05/2015	kL	6356
18/05/2015	kL	5725
19/05/2015	kL	6323
20/05/2015	kL	6312
21/05/2015	kL	6294
22/05/2015	kL	5489
23/05/2015	kL	7467
24/05/2015	kL	6216
25/05/2015	kL	6217
26/05/2015	kL	7359
27/05/2015	kL	5604
28/05/2015	kL	5596
29/05/2015	kL	6333
30/05/2015	kL	5553
31/05/2015	kL	5668

Depositional Dust

May 2015			
Sampling Date	17/04/2015	to	18/05/2015
Site	Insoluble Matter (g/m ² /month)		
DDG001	0.7		
DDG002	0.8		
DDG003	0.9		
DDG004	1.8		
DDG005	2.9		
Notes:			
- For site locations refer to Air Quality Management Plan			



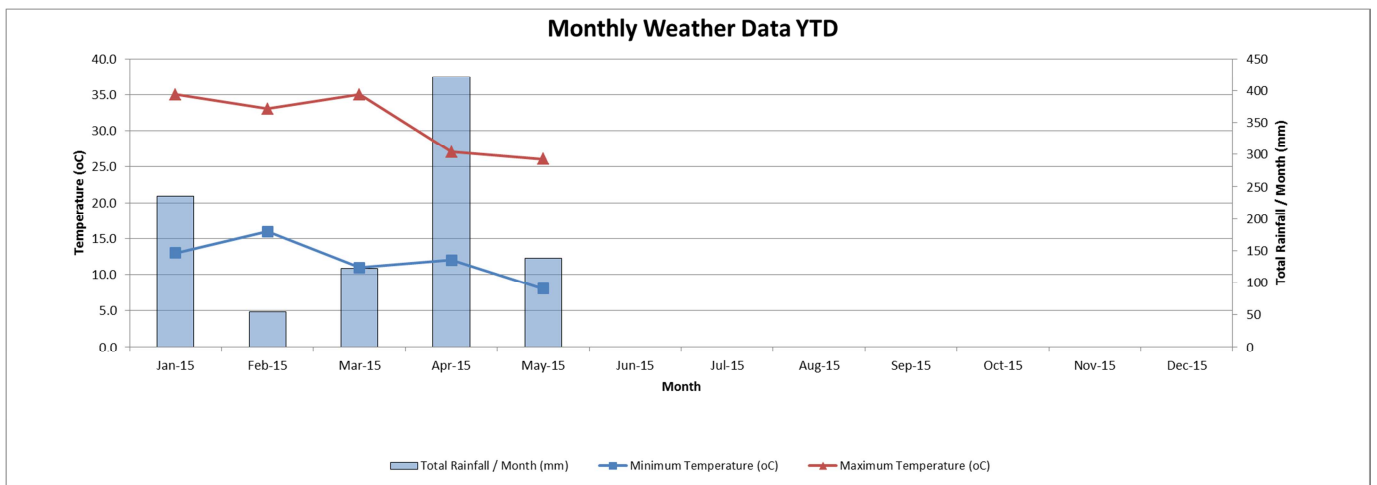
Operational Noise

Quarter 2 2015 attended noise monitoring has not yet been completed.

Results will be provided once the monitoring results become available from the noise monitoring consultants.

Weather Data

Month	Total Rainfall / Month (mm)	Minimum Temperature (°C)	Maximum Temperature (°C)
Jan-15	235.4	13	35
Feb-15	54.2	16	33
Mar-15	122.4	11	35
Apr-15	422.2	12	27
May-15	138.4	8	26



Note: Data from the 11/5/15 unavailable.

