

# LDO GROUP Report



<b>SITE:</b>	<b>Chain Valley Colliery</b>
<b>Department:</b>	<b>HSEC</b>
<b>REPORT TITLE:</b>	<b>Monthly Environmental Report – January 2015</b>
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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<sup>st</sup> January 2015 to 31<sup>st</sup> January 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	<a href="http://www.epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=36187&amp;SYSUID=1&amp;LICID=1770">http://www.epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=36187&amp;SYSUID=1&amp;LICID=1770</a>

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<sub>Aeq</sub>–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 2015 - Work Order ES1500066)

Hunter Water Laboratories - Report of Analysis (HWA-15/00427)

Steel River Testing - Dust Deposition Report January 2015 (Report 8036-0)

Development Consent SSD-5465 (as modified)

Environment Protection Licence 1770 (Licence version date: 26 September 2014)

# Report



Title:

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## Monitoring Results

### Water – Quality

January 2015			
EPL	1770		
Licensee	LakeCoal Pty Ltd		
Premises	Chain Valley Colliery		
Date Sampled	07-Jan-15		
Date Obtained	16-Jan-15		
Date Reported	Refer report date		
Sampling Point	1		
Parameter	Units	Limit	Result
Biochem. Oxygen Demand	mg/L		<2
Enterococci	CFU/100mL		180
Faecal Coliforms	CFU/100mL	200	55
pH	pH	6.5-8.5	7.9
Total Sus. Solids	mg/L	50	20

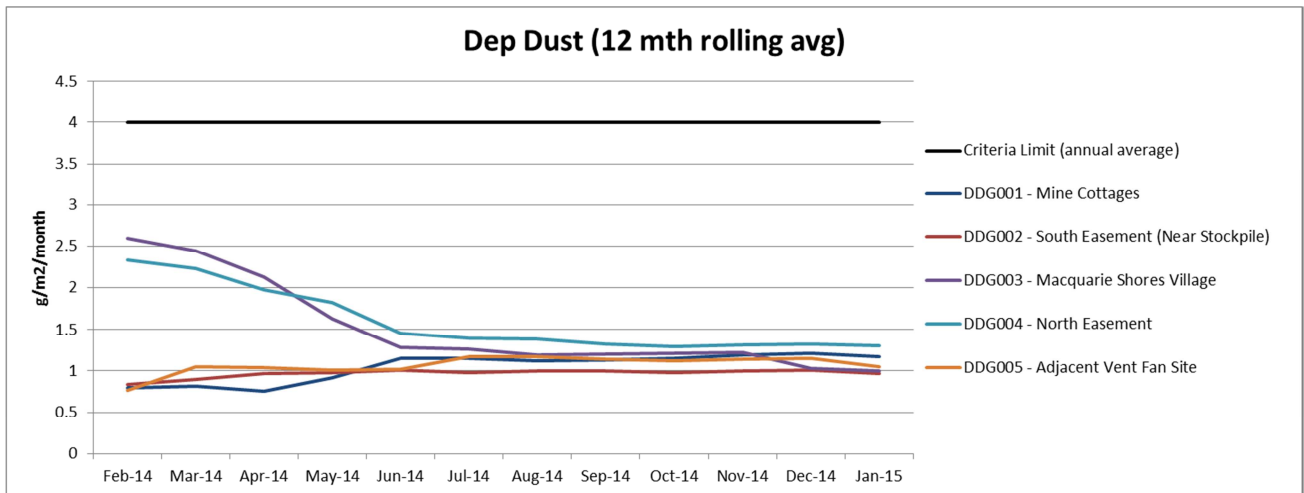
**Title:** CVC Monthly Environmental Report – January 2015

## Water – Volume

January 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
01/01/2015	kL	2074
02/01/2015	kL	6590
03/01/2015	kL	4478
04/01/2015	kL	6862
05/01/2015	kL	6212
06/01/2015	kL	6166
07/01/2015	kL	5280
08/01/2015	kL	5304
09/01/2015	kL	6299
10/01/2015	kL	7019
11/01/2015	kL	7349
12/01/2015	kL	6922
13/01/2015	kL	7034
14/01/2015	kL	6127
15/01/2015	kL	6206
16/01/2015	kL	7438
17/01/2015	kL	7202
18/01/2015	kL	6149
19/01/2015	kL	6618
20/01/2015	kL	5734
21/01/2015	kL	6297
22/01/2015	kL	5977
23/01/2015	kL	5242
24/01/2015	kL	5973
25/01/2015	kL	4749
26/01/2015	kL	6864
27/01/2015	kL	6212
28/01/2015	kL	6200
29/01/2015	kL	6089
30/01/2015	kL	5937
31/01/2015	kL	6625

## Depositional Dust

January 2015			
Sampling Date	19/12/2014	to	20/01/2015
Site	Insoluble Matter (g/m <sup>2</sup> /month)		
DDG001	1.1		
DDG002	0.9		
DDG003	0.8		
DDG004	1.2		
DDG005	0.8		
Notes:			
- For site locations refer to Air Quality Management Plan			



## Operational Noise

Quarter 1 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

