

# 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 – June 2015</b>
<b>Prepared by:</b>	<b>Chris Ellis</b>
<b>Report Date:</b>	<b>1 / 7 / 2015</b>
<b>Distribution:</b>	<b>Chain Valley Colliery Website</b>

## TABLE OF CONTENTS

Introduction .....	3
Scope .....	3
Definitions .....	4
References .....	4
Monitoring Results .....	5
Water – Quality .....	5
Water – Volume .....	6
Depositional Dust.....	7
Operational Noise .....	7
Weather Data.....	8

## 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 June 2015 to 30 June 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=50980&amp;SYSUID=1&amp;LICID=1770">http://www.epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=50980&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 (June 2015 - Work Order ES1523671)

ALS Water - Report of Analysis (HWA-15/04402)

Steel River Testing - Dust Deposition Report June 2015 (Report 9103-0)

Development Consent SSD-5465 (as modified)

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

## Monitoring Results

### Water – Quality

June 2015			
EPL	1770		
Licensee	LakeCoal Pty Ltd		
Premises	Chain Valley Colliery		
Date Sampled	10-Jun-15		
Date Obtained	17-Jun-15		
Date Reported	Refer report date		
Sampling Point	1		
Parameter	Units	Limit	Result
Biochem. Oxygen Demand	mg/L		<2
Enterococci	CFU/100mL		56
Faecal Coliforms	CFU/100mL	200	47
pH	pH	6.5-8.5	7.81
Total Sus. Solids	mg/L	50	<5

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

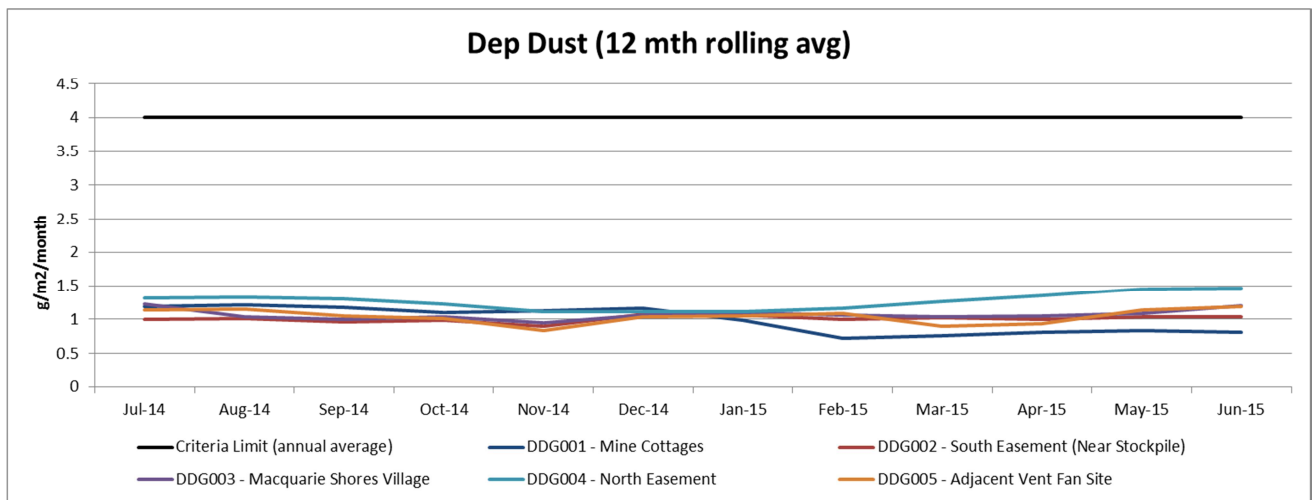
## Water – Volume

June 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
01/06/2015	kL	5500
02/06/2015	kL	6906
03/06/2015	kL	5507
04/06/2015	kL	3028
05/06/2015	kL	7782
06/06/2015	kL	5306
07/06/2015	kL	4884
08/06/2015	kL	7105
09/06/2015	kL	3359
10/06/2015	kL	4015
11/06/2015	kL	4477
12/06/2015	kL	6536
13/06/2015	kL	4870
14/06/2015	kL	7815
15/06/2015	kL	6765
16/06/2015	kL	8440
17/06/2015	kL	6423
18/06/2015	kL	1798
19/06/2015	kL	3933
20/06/2015	kL	8990
21/06/2015	kL	8990
22/06/2015	kL	9648
23/06/2015	kL	6912
24/06/2015	kL	6697
25/06/2015	kL	6116
26/06/2015	kL	4407
27/06/2015	kL	159
28/06/2015	kL	4786
29/06/2015	kL	4838
30/06/2015	kL	1635

There was no exceedance of the 12,161 kL/day volumetric discharge limit during the month.

## Depositional Dust

June 2015			
Sampling Date	18/05/2015	to	17/06/2015
Site	Insoluble Matter (g/m <sup>2</sup> /month)		
DDG001	0.3		
DDG002	0.4		
DDG003	2.0		
DDG004	0.6		
DDG005	0.9		
Notes:			
- For site locations refer to Air Quality Management Plan			



## Operational Noise

Quarter 2 2015 attended noise monitoring has been undertaken, however monitoring results have not yet been received from the noise monitoring consultants.

Results will be published once the monitoring results become available.

## 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
Jun-15	90	6	23

