

LDO GROUP Report



SITE:	Chain Valley Colliery
Department:	HSEC
REPORT TITLE:	Monthly Environmental Report – November 2014
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Report Date:	02 / 12 / 2014
Distribution:	Chain Valley Colliery Website

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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 1st November 2014 to 30th November 2014.

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=36187&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/Project Approval) 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 (November 2014 - Work Order ES1424519)

Hunter Water Laboratories - Report of Analysis (HWA-14/08763)

Steel River Testing - Dust Deposition Report November 2014 (Report 7658-0)

Development Consent SSD-5465 (as modified)

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

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Monitoring Results

Water – Quality

November 2014			
EPL	1770		
Licensee	LakeCoal Pty Ltd		
Premises	Chain Valley Colliery		
Date Sampled	10-Nov-14		
Date Obtained	20-Nov-14		
Date Reported	Refer report date		
Sampling Point	1		
Parameter	Units	Limit	Result
Biochem. Oxygen Demand	mg/L		<2
Enterococci	CFU/100mL		89
Faecal Coliforms	CFU/100mL	200	20
pH	pH	6.5-8.5	7.92
Total Sus. Solids	mg/L	50	8

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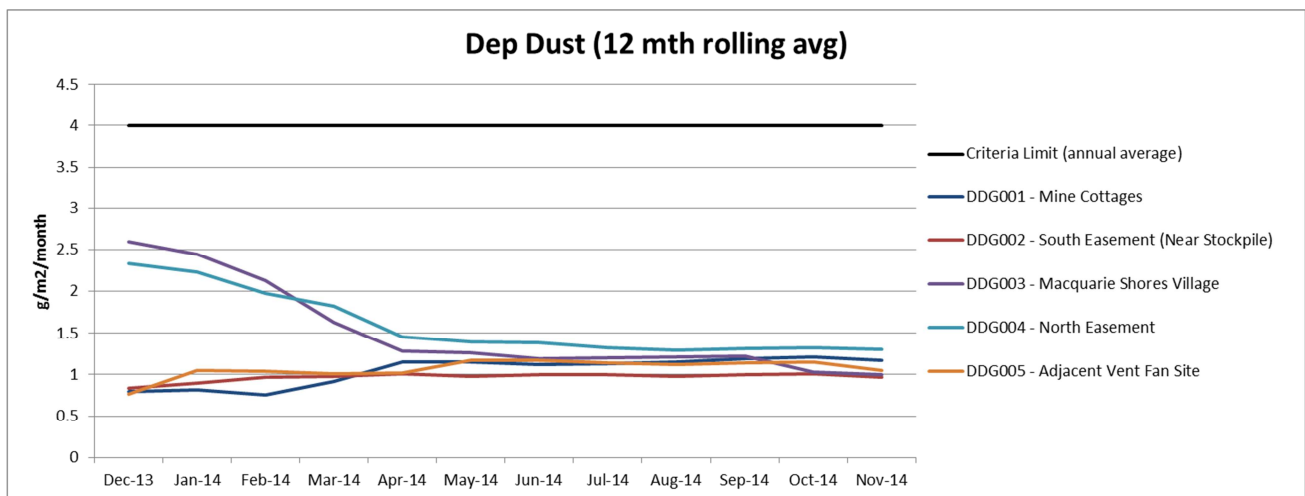
Water – Volume

November 2014		
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
01/11/2014	kL	6242
02/11/2014	kL	6505
03/11/2014	kL	9361
04/11/2014	kL	5619
05/11/2014	kL	6569
06/11/2014	kL	6564
07/11/2014	kL	6556
08/11/2014	kL	4311
09/11/2014	kL	6548
10/11/2014	kL	6492
11/11/2014	kL	3868
12/11/2014	kL	6549
13/11/2014	kL	6121
14/11/2014	kL	4112
15/11/2014	kL	6229
16/11/2014	kL	7393
17/11/2014	kL	7996
18/11/2014	kL	5797
19/11/2014	kL	2385
20/11/2014	kL	6367
21/11/2014	kL	8001
22/11/2014	kL	6236
23/11/2014	kL	3861
24/11/2014	kL	8116
25/11/2014	kL	2483
26/11/2014	kL	4528
27/11/2014	kL	7313
28/11/2014	kL	5564
29/11/2014	kL	9723
30/11/2014	kL	6486

Depositional Dust

November 2014			
Sampling Date	21/10/2014	to	21/11/2014
Site	Insoluble Matter (g/m ² /month)		
DDG001	1.5		
DDG002	0.5		
DDG003	0.9		
DDG004	1.8		
DDG005	1.1		
Notes:			
- For site locations refer to Air Quality Management Plan			



Operational Noise

Quarter 4 2014 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

