

LDO GROUP Report



SITE:	Chain Valley Colliery
Department:	HSEC
REPORT TITLE:	Monthly Environmental Report – October 2014
Prepared by:	Chris Ellis
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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) and a Project Approval (MP 10_0161) 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 October 2014 to 31st October 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 (October 2014 - Work Order ES1422390)

Hunter Water Laboratories - Report of Analysis (HWA-14/07847)

Steel River Testing - Dust Deposition Report October 2014 (Report 7455-0)

Development Consent SSD-5465

Project Approval 10_0161 (as modified)

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

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Monitoring Results

Water – Quality

October 2014			
EPL	1770		
Licensee	LakeCoal Pty Ltd		
Premises	Chain Valley Colliery		
Date Sampled	14-Oct-14		
Date Obtained	29-Oct-14		
Date Reported	Refer report date		
Sampling Point	1		
Parameter	Units	Limit	Result
Biochem. Oxygen Demand	mg/L		<2
Enterococci	CFU/100mL		210
Faecal Coliforms	CFU/100mL	200	170
pH	pH	6.5-8.5	8.03
Total Sus. Solids	mg/L	50	<5

Water – Volume

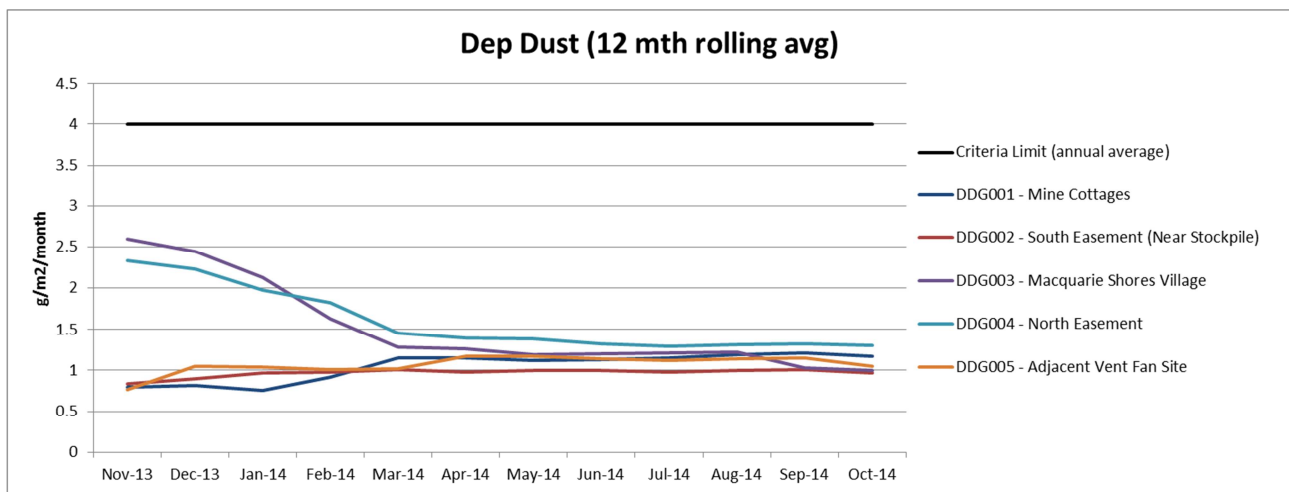
October 2014	
EPL	1770
Licensee	LakeCoal Pty Ltd
Premises	Chain Valley Colliery
Date Sampled	Daily
Date Reported	Refer report date
Discharge volume limit	12161 kilolitres per day
Sampling Point	1

Date (24 hour period)	Unit	Volume
01/10/2014	kL	6649
02/10/2014	kL	5192
03/10/2014	kL	8517
04/10/2014	kL	5841
05/10/2014	kL	5088
06/10/2014	kL	8578
07/10/2014	kL	8289
08/10/2014	kL	5608
09/10/2014	kL	6642
10/10/2014	kL	6638
11/10/2014	kL	6638
12/10/2014	kL	6637
13/10/2014	kL	6601
14/10/2014	kL	6592
15/10/2014	kL	6571
16/10/2014	kL	6568
17/10/2014	kL	6567
18/10/2014	kL	6578
19/10/2014	kL	6564
20/10/2014	kL	2580
21/10/2014	kL	6566
22/10/2014	kL	6573
23/10/2014	kL	10372
24/10/2014	kL	5179
25/10/2014	kL	5597
26/10/2014	kL	10471
27/10/2014	kL	7549
28/10/2014	kL	7381
29/10/2014	kL	7798
30/10/2014	kL	10083
31/10/2014	kL	6279

Depositional Dust

October 2014	
Sampling Date	19/09/2014 to 21/10/2014
Site	Insoluble Matter (g/m ² /month)
DDG001	0.7
DDG002	1.6
DDG003	4.2
DDG004	1.8
DDG005	0.4

Notes:
 - For site locations refer to Air Quality Management Plan



Operational Noise

Quarter 3 2014 attended noise monitoring has been undertaken, with the results shown below.

There were no exceedances of noise criteria during the quarter.

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LAeq (15 min) attended noise monitoring results – Quarter 3 2014			
Location	Date / Time	Criteria LAeq dB	LAeq dB (from Colliery)
Day			
ATN001	19/09/2014 12:13	35	Inaudible
ATN002	19/09/2014 6:00	49	45
ATN003	19/09/2014 9:52	36	Inaudible
ATN004	19/09/2014 9:21	35	Inaudible
ATN005	19/09/2014 8:44	35	Not measureable
ATN006	19/09/2014 8:15	37	Not measureable
ATN007	19/09/2014 7:33	46	44
Evening			
ATN001	18/09/2014 18:48	35	Inaudible
ATN002	18/09/2014 20:25	49	47
ATN003	18/09/2014 19:42	36	34
ATN004	17/09/2014 19:10	35	35
ATN005	17/09/2014 21:05	35	Not measureable
ATN006	17/09/2014 20:42	37	Not measureable
ATN007	17/09/2014 20:11	46	40
Night			
ATN001	18/09/2014 22:00	35	Inaudible
ATN002	18/09/2014 23:26	49	49
ATN003	18/09/2014 22:46	36	<35
ATN004	17/09/2014 23:32	35	Inaudible
ATN005	17/09/2014 23:08	35	Not measureable
ATN006	17/09/2014 22:47	37	Not measureable
ATN007	17/09/2014 22:19	46	40
Notes: For monitoring locations refer to Noise Management Plan			

LA1 (1min) attended noise monitoring results – Quarter 3 2014			
Location	Date / Time	Criteria LA1 dB	LA1 dB (from Colliery)
Night			
ATN001	18/09/2014 22:00	45	Inaudible
ATN002	18/09/2014 23:26	54	54
ATN003	18/09/2014 22:46	45	<35
ATN004	17/09/2014 23:32	45	Inaudible
ATN005	17/09/2014 23:08	45	Not measureable
ATN006	17/09/2014 22:47	45	Not measureable
ATN007	17/09/2014 22:19	46	40
Notes: For monitoring locations refer to Noise Management Plan			

Weather Data

