

LDO GROUP Report



SITE:	Chain Valley Colliery
Department:	HSEC
REPORT TITLE:	Monthly Environmental Report – November 2012
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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 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.

The above legislation, licence and approval require various monitoring and reporting to be undertaken by LakeCoal for Chain Valley Colliery.

This report covers the requirements of the above and attempts to make the data as understandable and easy to interpret as possible for the general public.

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 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 of receipt. 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 Project Approval) to determine compliance.

Monitoring results presented include;

- Water – quality
- Water – volume
- Depositional dust

Definitions

kL - kilolitres

mg/L – Milligrams per litre

µs/cm – microsiemens per centimetre

µg/L – Micrograms per litre

g/m²/month – grams per square metre per month

References

Monthly Water Monitoring Results from ALS Group (November 2012 - Work Order ES1227781)

Dust Deposition Report (November 2012 – Report 3715-0)

Project Approval 10_0161 (as modified)

Environment Protection Licence 1770

Monitoring Results

Water – Quality

November 2012			
EPL	1770		
Licensee	LakeCoal Pty Ltd		
Premises	Chain Valley Colliery		
Date Sampled	23-Nov-12		
Date Obtained	30-Nov-12		
Date Reported	Refer report date		
Sampling Point	1		
Parameter	Units	Limit	Result
Aluminium (total)	µg/L		14
Aluminium (soluble)	µg/L		<5
Ammonia as N	mg/L		<0.10
Arsenic (total)	µg/L		0.5
Arsenic (soluble)	µg/L		0.6
Beryllium (total)	µg/L		<0.1
Beryllium (soluble)	µg/L		<0.1
Cadmium (total)	µg/L		<0.2
Cadmium (soluble)	µg/L		<0.2
Chromium (total)	µg/L		<0.5
Chromium (soluble)	µg/L		<0.5
Cobalt (total)	µg/L		<0.2
Cobalt (soluble)	µg/L		<0.2
Conductivity	µs/cm		32100
Copper (total)	µg/L		<1
Copper (soluble)	µg/L		<1
Lead (total)	µg/L		<0.2
Lead (soluble)	µg/L		0.4
Mercury (total)	mg/L		<0.0001
Mercury (soluble)	mg/L		<0.0001
Molybdenum (total)	µg/L		2.7
Molybdenum (soluble)	µg/L		2.8
Nickel (total)	µg/L		0.8
Nickel (soluble)	µg/L		0.7
pH	pH	6.5-8.5	8.01
Selenium (total)	µg/L		<2
Selenium (soluble)	µg/L		<2
Silver (total)	µg/L		<0.1
Silver (soluble)	µg/L		<0.1
Total Sus. Solids	mg/L	25	<5
Vanadium (total)	µg/L		<0.5
Vanadium (soluble)	µg/L		<0.5
Zinc (total)	µg/L		56
Zinc (soluble)	µg/L		9

Water – Volume

November 2012	
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
01/11/2012	kL	4125
02/11/2012	kL	10429
03/11/2012	kL	7066
04/11/2012	kL	7373
05/11/2012	kL	7229
06/11/2012	kL	5494
07/11/2012	kL	6515
08/11/2012	kL	7726
09/11/2012	kL	7741
10/11/2012	kL	6765
11/11/2012	kL	7274
12/11/2012	kL	6962
13/11/2012	kL	1739
14/11/2012	kL	0
15/11/2012	kL	4339
16/11/2012	kL	4534
17/11/2012	kL	6410
18/11/2012	kL	6426
19/11/2012	kL	8366
20/11/2012	kL	5527
21/11/2012	kL	5530
22/11/2012	kL	9506
23/11/2012	kL	5481
24/11/2012	kL	8446
25/11/2012	kL	5915
26/11/2012	kL	4812
27/11/2012	kL	5370
28/11/2012	kL	5384
29/11/2012	kL	5376
30/11/2012	kL	4175

Dispositional Dust

November 2012			
Sampling Date	15/10/2012	to	16/11/2012
Site	Insoluble Matter (g/m ² /month)		
DDG001	1.0		
DDG002	0.8		
DDG003	3.8		
DDG004	4.2		
DDG005	NA		

Notes:

- For site locations refer to Air Quality and Greenhouse Gas Management Plan
- Access and installation of DDG005 is not yet completed