

LDO GROUP Report



SITE:	Chain Valley Colliery
Department:	HSEC
REPORT TITLE:	Monthly Environmental Report – February 2013
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TABLE OF CONTENTS

Introduction	3
Scope	3
Definitions	4
References	4
Monitoring Results	5
Water – Quality	5
Water – Volume	6
Dispositional Dust	7

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.
- A groundwater bore licence (20BL173107) issued under the Water Act, 1912.

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 (February 2013 - Work Order ES1304560)

Dust Deposition Report (February 2013 – Report 4160-0)

Project Approval 10_0161 (as modified)

Environment Protection Licence 1770

Monitoring Results

Water – Quality

February 2013			
EPL	1770		
Licensee	LakeCoal Pty Ltd		
Premises	Chain Valley Colliery		
Date Sampled	28-Feb-13		
Date Obtained	17-Mar-13		
Date Reported	Refer report date		
Sampling Point	1		
Parameter	Units	Limit	Result
Aluminium (total)	µg/L		16
Aluminium (soluble)	µg/L		13
Ammonia as N	mg/L		0.12
Arsenic (total)	µg/L		<0.5
Arsenic (soluble)	µg/L		<0.5
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		31900
Copper (total)	µg/L		<1
Copper (soluble)	µg/L		<1
Lead (total)	µg/L		<0.2
Lead (soluble)	µg/L		<0.2
Mercury (total)	mg/L		<0.0001
Mercury (soluble)	mg/L		<0.0001
Molybdenum (total)	µg/L		3.1
Molybdenum (soluble)	µg/L		3
Nickel (total)	µg/L		1.1
Nickel (soluble)	µg/L		1.5
pH	pH	6.5-8.5	8.06
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	12
Vanadium (total)	µg/L		0.6
Vanadium (soluble)	µg/L		0.5
Zinc (total)	µg/L		10
Zinc (soluble)	µg/L		10

Title: Monthly Environmental Report – February 2013

Water – Volume

February 2013		
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
01/02/2013	kL	6905
02/02/2013	kL	6588
03/02/2013	kL	6860
04/02/2013	kL	5380
05/02/2013	kL	6390
06/02/2013	kL	6101
07/02/2013	kL	6103
08/02/2013	kL	6395
09/02/2013	kL	6104
10/02/2013	kL	6396
11/02/2013	kL	6098
12/02/2013	kL	6396
13/02/2013	kL	8754
14/02/2013	kL	4943
15/02/2013	kL	8889
16/02/2013	kL	4928
17/02/2013	kL	6606
18/02/2013	kL	6922
19/02/2013	kL	6611
20/02/2013	kL	6609
21/02/2013	kL	6923
22/02/2013	kL	6608
23/02/2013	kL	6925
24/02/2013	kL	8649
25/02/2013	kL	2721
26/02/2013	kL	6163
27/02/2013	kL	6171
28/02/2013	kL	6465

Dispositional Dust

February 2013			
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Sampling Date	18/01/2013	to	19/02/2013
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Site	Insoluble Matter (g/m ² /month)
DDG001	0.7
DDG002	1.1
DDG003	5.4
DDG004	4.6
DDG005	NA

Notes:

- For site locations refer to Air Quality and Greenhouse Gas Management Plan
- Installation of DDG005 completed but first months data not yet available.