

Report



SITE:	Chain Valley Colliery
Department:	HSEC
REPORT TITLE:	Monthly Environmental Report – April 2012
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Report Date:	21/06/12
Distribution:	LakeCoal Website

Report



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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 (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



Definitions

kL - kilolitres

mg/L – Milligrams per litre

µs/cm – microsiemens per centimetre

µg/L – Micrograms per litre

References

Monthly Water Monitoring Results from ALS Group (April 2012 - Work Order ES1208274)

Project Approval 10_0161 dated 23 January 2012

Environment Protection Licence 1770

Monitoring Results

Water - Quality

April 2012			
EPL	1770		
Licensee	LakeCoal Pty Ltd		
Premises	Chain Valley Colliery		
Date Sampled	05-Apr-12		
Date Obtained	18-Apr-12		
Date Reported	Refer report date		
Sampling Point	1		
Parameter	Units	Limit	Result
Aluminium (total)	µg/L		31
Aluminium (soluble)	µg/L		<10
Ammonia as N	mg/L		<0.01
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		33200
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		2.1
Molybdenum (soluble)	µg/L		1.9
Nickel (total)	µg/L		<0.5
Nickel (soluble)	µg/L		<0.5
pH	pH	6.5-8.5	7.84
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		16
Zinc (soluble)	µg/L		10



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Water - Volume

April 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
01/04/2012	kL	6310
02/04/2012	kL	8175
03/04/2012	kL	5700
04/04/2012	kL	5733
05/04/2012	kL	9964
06/04/2012	kL	5742
07/04/2012	kL	7443
08/04/2012	kL	6892
09/04/2012	kL	6
10/04/2012	kL	1
11/04/2012	kL	5655
12/04/2012	kL	5537
13/04/2012	kL	9851
14/04/2012	kL	9003
15/04/2012	kL	8543
16/04/2012	kL	7237
17/04/2012	kL	9507
18/04/2012	kL	6079
19/04/2012	kL	6503
20/04/2012	kL	9851
21/04/2012	kL	7163
22/04/2012	kL	7769
23/04/2012	kL	3597
24/04/2012	kL	10435
25/04/2012	kL	3492
26/04/2012	kL	6998
27/04/2012	kL	6659
28/04/2012	kL	3847
29/04/2012	kL	2307
30/04/2012	kL	7147