

Report



SITE:	Chain Valley Colliery
Department:	HSEC
REPORT TITLE:	Monthly Environmental Report – September 2012
Prepared by:	Chris Ellis
Report Date:	05/10/12
Distribution:	LakeCoal Website

Report



Title: Monthly Environmental Report – September 2012

TABLE OF CONTENTS

Introduction	3
Scope	3
Definitions	4
References	4
Monitoring Results	4
Water - Quality	5
Water - Volume	6

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

Report



Title: Monthly Environmental Report – September 2012

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 (September 2012 - Work Order ES1222669)

Project Approval 10_0161 (as modified)

Environment Protection Licence 1770

Monitoring Results

Report



Title: Monthly Environmental Report – September 2012

Water - Quality

September 2012			
EPL	1770		
Licensee	LakeCoal Pty Ltd		
Premises	Chain Valley Colliery		
Date Sampled	25-Sep-12		
Date Obtained	05-Oct-12		
Date Reported	Refer report date		
Sampling Point	1		

Parameter	Units	Limit	Result
Aluminium (total)	µg/L		<10
Aluminium (soluble)	µg/L		<10
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		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		2.3
Molybdenum (soluble)	µg/L		2.3
Nickel (total)	µg/L		0.6
Nickel (soluble)	µg/L		0.6
pH	pH	6.5-8.5	8.03
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		1.7
Vanadium (soluble)	µg/L		1.8
Zinc (total)	µg/L		<5
Zinc (soluble)	µg/L		17

Report



Title: Monthly Environmental Report – September 2012

Water - Volume

September 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
01/09/2012	kL	6445
02/09/2012	kL	7523
03/09/2012	kL	6756
04/09/2012	kL	8975
05/09/2012	kL	8607
06/09/2012	kL	6148
07/09/2012	kL	7280
08/09/2012	kL	7331
09/09/2012	kL	6111
10/09/2012	kL	9363
11/09/2012	kL	6180
12/09/2012	kL	7741
13/09/2012	kL	7102
14/09/2012	kL	5611
15/09/2012	kL	9000
16/09/2012	kL	7384
17/09/2012	kL	5598
18/09/2012	kL	7031
19/09/2012	kL	8246
20/09/2012	kL	5531
21/09/2012	kL	9212
22/09/2012	kL	7573
23/09/2012	kL	5978
24/09/2012	kL	8239
25/09/2012	kL	5529
26/09/2012	kL	9594
27/09/2012	kL	5528
28/09/2012	kL	9546
29/09/2012	kL	6961
30/09/2012	kL	6002