LDO GROUP Report



SITE:	Chain Valley Colliery	
Department:	HSEC	
REPORT TITLE:	Monthly Environmental Report – March 2015	
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Distribution:	Chain Valley Colliery Website	





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Title:

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 (as modified) 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 March 2015 to 31st March 2015.

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=3618 7&SYSUID=1&LICID=1770		

Details of the Chain Valley Colliery and EPL 1770 are provided below.

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.

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Where applicable, the results of the monitoring programs are compared with the relevant criteria (from the EPL or Development Consent) 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

- LAeq-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 (March 2015 Work Order ES1505591)
- ALS Water Report of Analysis (HWA-15/02007)

Steel River Testing - Dust Deposition Report March 2015 (Report 8431-0)

Development Consent SSD-5465 (as modified)

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

Title:

Monitoring Results

Water – Quality

March 2015						
EPL	1770					
Licensee	LakeCoal Pty Ltd					
Premises	Chain Valley Colliery					
Date Sampled	10-Mar-15					
Date Obtained	17-Mar-15					
Date Reported	Refer report date					
Sampling Point	1					
Parameter	Units	Limit	Result			
Biochem. Oxygen Demand	mg/L		<2			
Enterococci	CFU/100mL		120			
Faecal Coliforms	CFU/100mL	200	140			
рН	рН	6.5-8.5	7.92			
Total Sus. Solids	mg/L	50	<5			



Water – Volume

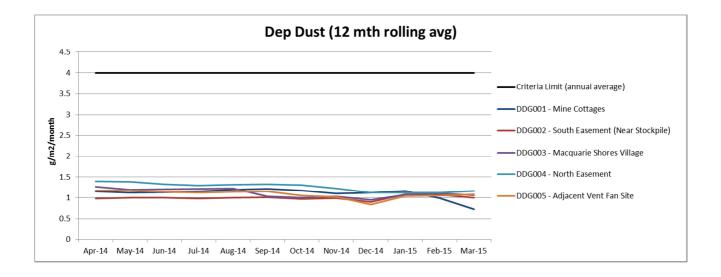
March 2015					
EPL 1770					
Licensee	LakeCoal Pty Ltd				
Premises	Chain Valley Colliery				
Date Sampled	Daily				
Date Reported	Refer report date				
Discharge volume limit	12161 kilolitres per day				
Sampling Point	1				
Date (24 hour period)	Unit	Volume			
01/03/2015	kL	3160			
02/03/2015	kL	4010			
03/03/2015	kL	4440			
04/03/2015	kL	3360			
05/03/2015	kL	5144			
06/03/2015	kL	2259			
07/03/2015	kL	4997			
08/03/2015	kL	5416			
09/03/2015	kL	5586			
10/03/2015	kL	5566			
11/03/2015	kL	10081			
12/03/2015	kL	10433			
13/03/2015	kL	10105			
14/03/2015	kL	4880			
15/03/2015	kL	6310			
16/03/2015	kL	4070			
17/03/2015	kL	5620			
18/03/2015	kL	5690			
19/03/2015	kL	5470			
20/03/2015	kL	5580			
21/03/2015	kL	5580			
22/03/2015	kL	5090			
23/03/2015	kL	1140			
24/03/2015	kL	5550			
25/03/2015	kL	4030			
26/03/2015	kL	3130			
27/03/2015	kL	1190			
28/03/2015	kL	5680			
29/03/2015	kL	4720			
30/03/2015	kL	5780			
31/03/2015	kL	4310			

Depositional Dust

March 2015				
Sampling Date	19/02/2015 to 20/03/2015		20/03/2015	
Site	Site Insoluble Matter (g/m2/month)			
DDG001	0.8	0.8		
DDG002	1.0			
DDG003	0.6			
DDG004	1.9			
DDG005	0.5			

Notes:

- For site locations refer to Air Quality Management Plan



Operational Noise

Quarter 1 2015 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 1 2015				
Location	Date / Time	Criteria LAeq dB	LAeq dB (from Colliery)	
Day				
ATN001	03/03/2015 11:37	35	Inaudible	
ATN002	03/03/2015 13:44	49	Not measureable	
ATN003	03/03/2015 12:49	36	Inaudible	
ATN004	03/03/2015 12:25	35	Inaudible	
ATN005	03/03/2015 14:14	35	Inaudible	
ATN006	03/03/2015 14:39	37	Inaudible	
ATN007	03/03/2015 15:12	46	40	
Evening				
ATN001	03/03/2015 18:00	35	Inaudible	
ATN002	03/03/2015 19:27	49	<30	
ATN003	03/03/2015 18:47	36	Inaudible	
ATN004	03/02/2015 19:23	35	Inaudible	
ATN005	03/02/2015 19:52	35	Inaudible	
ATN006	03/02/2015 20:17	37	Inaudible	
ATN007	03/02/2015 20:45	46	39	
Night				
ATN001	03/02/2015 22:02	35	Inaudible	
ATN002	03/02/2015 23:52	49	43	
ATN003	03/02/2015 23:12	36	33	
ATN004	03/02/2015 22:49	35	Inaudible	
ATN005	04/02/2015 0:18	35	Not measureable	
ATN006	04/02/2015 0:43	37	Not measureable	
ATN007	04/02/2015 1:10	46	37	
Notes:	Notes:			
For monitoring locations refer to Noise Management Plan				

LA1 (1min) attended noise monitoring results – Quarter 1 2015				
Location	Date / Time	Criteria LA1 dB	LA1 dB (from Colliery)	
Night				
ATN001	03/02/2015 22:02	45	Inaudible	
ATN002	03/02/2015 23:52	54	48	
ATN003	03/02/2015 23:12	45	36	
ATN004	03/02/2015 22:49	45	Inaudible	
ATN005	04/02/2015 0:18	45	Not measureable	
ATN006	04/02/2015 0:43	45	Not measureable	
ATN007	04/02/2015 1:10	46	38	
Notes:				
For monitoring locations refer to Noise Management Plan				

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Weather Data

Month	Total Rainfall / Month (mm)	Minimum Temperature (°C)	Maximum Temperature (°C)
Jan-15	235.4	13	35
Feb-15	54.2	16	33
Mar-15	122.4	11	35

