



Monthly Website Report

Site:	Chain Valley Colliery
Department:	Technical Services
Report Title:	Monthly Environmental Website Report - August 2019
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Introduction

Great Southern Energy Pty Ltd (trading as Delta Coal) 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 Water Access Licence 20AL217069 (WAL41508), Aquifer (4,443 megalitres)

The above development consent/approval and licences require various monitoring and reporting to be undertaken by Delta Coal for Chain Valley Colliery.

This report provides environmental monitoring data from Chain Valley Colliery for the period 1 August to 31 August 2019.

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

Chain Valley Colliery Information	
Premises name	Chain Valley Colliery
Address	Construction Road, Chain Valley Bay, NSW, 2259
Licensee	Great Southern Energy Pty Ltd
EPL #	1770
EPL location	http://www.epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=50980&SYSUID=1&LICID=1770

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 Delta Coal 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 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

L_{Aeq}–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

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References

ALS Group - Monthly Water Monitoring Results **August** 2019

ALS Water - Report of Analysis

Steel River Testing - Dust Deposition Report **August** 2019

Development Consent SSD-5465 (as modified)

Environment Protection Licence 1770 (Licence version date: 2 April 2019)

Monitoring Results

Water – Quality

August 2019	
EPL	1770
Licensee	LakeCoal Pty Ltd
Premises	Chain Valley Colliery
Date Sampled	20-Aug-19
Date Obtained	22-Aug-19
Date Reported	August
Sampling Point	1

Parameter	Units	Limit	Result
Biochem. Oxygen Demand	mg/L	-	4
Enterococci	col/100mL	-	25
Faecal Coliforms	CFU/100mL	200	18
pH	pH	6.5-8.5	7.79
Total Sus. Solids	mg/L	50	5

There was no exceedance of water quality criteria during the month.

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Water – Volume

There was one exceedance of the volumetric limits during this month at the Licenced Discharge Point. This occurred on 30 August 2019.

August 2019		
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
01/08/2019	kL	6284
02/08/2019	kL	6091
03/08/2019	kL	5976
04/08/2019	kL	5820
05/08/2019	kL	5852
06/08/2019	kL	6034
07/08/2019	kL	4589
08/08/2019	kL	4753
09/08/2019	kL	5171
10/08/2019	kL	5649
11/08/2019	kL	6164
12/08/2019	kL	4637
13/08/2019	kL	4215
14/08/2019	kL	5061
15/08/2019	kL	5050
16/08/2019	kL	5104
17/08/2019	kL	5663
18/08/2019	kL	5706
19/08/2019	kL	5608
20/08/2019	kL	4967
21/08/2019	kL	4754
22/08/2019	kL	4345
23/08/2019	kL	2878
24/08/2019	kL	5063
25/08/2019	kL	5978
26/08/2019	kL	6050
27/08/2019	kL	3204
28/08/2019	kL	4887
29/08/2019	kL	6457
30/08/2019	kL	13343
31/08/2019	kL	10741
Average	kL	5680
Minimum	kL	2878
Maximum	kL	13343

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Depositional Dust

August 2019	
EPL	1770
Limit	4g/m ² /month
Sampling I	08/07/2019 to 13/08/2019
Site	Insoluble Matter (g/m ² /month)
DDG001	0.7
DDG002	0.6
DDG003	0.3
DDG004	0.4
DDG005	0.4
Notes:	

There were no exceedances of the annual average air quality limits during the reporting period.

Operational Noise

Operational noise monitoring was undertaken in July and displayed compliance.

Weather Data

A summary of weather data recorded by an adjacent site meteorological monitoring station at Mannering Colliery is presented below for the year to date.

Monthly Weather Data			
2019			
EPL	191		
Licensee	LakeCoal Pty Ltd		
Premises	Mannering Colliery		
Location	W1 (on-site weather station)		
Date published	Refer report date		
Date sampled	Daily		
Date obtained			
Month	Total Rainfall/Month mm	Min Temp	Max Temp
Jan-19	60.6	18.6	39.6
Feb-19	88.6	22.7	37.4
Mar-19	204	10.1	37.1
Apr-19	73.2	8.3	32.8
May-19	11.0	3.9	26.3
Jun-19	158.8	3.9	25.0
Jul-19	47.2	4.0	23.3
Aug-19	194.0	2.0	25.4
Sep-19			
Oct-19			
Nov-19			
Dec-19			