

Chain Valley Colliery Monthly Website Report

Site:	Chain Valley Colliery
Department:	Technical Services
Report Title:	Monthly Environmental Website Report - February 2020
Prepared by:	Nena Lane-Kirwan
Report Date:	12 March 2020
Distribution:	Delta Coal website

Monthly Website Report

CVC Monthly Environmental Report

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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:

- Section 66(6) of the *Protection of the Environmental Operations Act 1997*, to make monitoring data related to an Environment Protection Licence (EPL) publically available;
-) Conditions 8 & 11, Schedule 6, of Development Consent SSD-5465 (as modified), issued under the *Environmental Planning and Assessment Act 1979* to provide details of monitoring results and environmental performance;
-) An Environment Protection Licence (EPL 1770) issued under the *Protection of the Environment Operations Act 1997*; and
- A Water Access Licence (WAL41508), Aquifer (Sydney Basin North Coast Groundwater Source) for 4,443 unit shares (megalitres).

The above development consent 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 to 29 February 2020.

Chain Valley Coll	iery 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&SYS UID=1&LICID=1770

Details of the Chain Valley Colliery 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 are presented monthly with annual data, averages and trends in data also shown where relevant.

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 assess compliance. Monitoring results presented in this report include:

- Water quality;
-) Water volume;
-) Depositional dust; and
-) Weather data.

Definitions

g/m²/month – grams per square metre per month;

- kL kilolitre;
- ML megalitre;
- mg/L milligrams per litre;
- TSS total suspended solids;
- μ g/L micrograms per litre; and
- μ S/cm microSiemens per centimetre.

Report

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References

ALS Group - Monthly Water Monitoring Results February 2020

ALS Water - Report of Analysis

Steel River Testing - Dust Deposition Report February 2020

Development Consent SSD-5465 (as modified)

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

Monitoring Results

Water – Quality

Water quality results for October at Chain Valley Colliery at EPA Discharge Point 1 are presented below.

February 2020		
EPL	1770	
Licensee	LakeCoal Pty Ltd	
Premises	Chain Valley Colliery	
Date Sampled	15 (15)	
Date Obtained		
Date Reported	February	
Sampling Point	1	

Parameter	Units	Limit	Result
Biochem. Oxygen Demand mg/L		2	<2
Enterococci	col/100mL		290
Faecal Coliforms	CFU/100n	200	<17
pH	pH	6.5-8.5	7.67
Total Sus. Solids	mg/L	50	16

As detailed above, results for monthly sampling were below the relevant limits.

Additional water sampling was undertaken at EPA Point 27. Between 6 and 9 February a total of 295 mm of rain fell, with the majority of rain falling on 9 February 2020. Point 27 is an overflow spillway designed for high rainfall events. In accordance with EPL requirements, water samples were taken on the 7 and 9 February 2020 from the spillway (EPA ID Point 27). There were two exceedances of water quality criteria at this point, being Faecal Coliforms and Total Suspended Solids. A formal incident report was sent to DPIE.

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Water – Volume

Monthly water volumes are summarised below.

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 Yolume 01/02/2020 kL 8282 02/02/2020 kL 83986 03/02/2020 kL 8612 04/02/2020 kL 8122 06/02/2020 kL 8122 06/02/2020 kL 9872 07/02/2020 kL 9872 07/02/2020 kL 1925 08/02/2020 kL 19125 08/02/2020 kL 18029 11/02/2020 kL 18480 13/02/2020 kL 8480 13/02/2020 kL 8493 13/02/2020 kL 8493 13/02/2020 kL 8493 13/02/2020 <td< th=""><th></th><th>February 2019</th><th></th></td<>		February 2019	
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Average kL 8279 Minimim kL 1629			
Minimim kL 1629	29/02/2020	KL	7810
Minimim kL 1629			
	-		
Maximum kL 13044			
	Maximum	kL	13044

There was one exceedance of the volumetric limits on 9 February 2020 and was a result of a significant rainfall event. A formal incident report was provided to DPIE.

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Depositional Dust

Monthly depositional dust results are shown below. Dust deposition gauges were sampled and analysed in accordance with the project approval, CVC Air Quality Management Plan and relevant Australian Standards.

	February	2020	
EPL	1770		
Limit	4g/m² /month		
Sampling	06/01/2020	to	06/02/2020
Site	Insoluble Matter (g/m2/month)		
DDG001		2.5	
DDG002		3.2	
DDG003		3.1	
DDG004		3.9	
DDG005	6.6		
Notes:			

As detailed above, there was one exceedance of Insoluble Matter at EPL Sampling Site DDG005. No formal Incident report was required by DPIE as there was evidence of contamination.

Weather Data

A summary of weather data recorded by a meteorological monitoring station at the adjacent Mannering Colliery is presented below for the year to date. (EPA ID no. 26)

Monthly Weather Data				
Licensee	Great Southern Energy Pty Ltd			
Location	Mannering Colliery Meteorological station			
Date published	Refer report date			
Date sampled	Daily			
Date obtained	06/03/2020			
Month	Total Rainfall/Month mm Min Temp M			
Jan-20	28.2	18	43.7	
Feb-20	350.2	15.7	37	
Mar-20			50 85	
Apr-20				
May-20		Ang Sel		
Jun-20				
Jul-20		8.9 35		
Aug-20				
Sep-20			86 85	
Oct-20				
Nov-20		199 345	35	
Dec-20				