

CULLEN VALLEY MINE

Monthly Environmental Monitoring data

for

Castlereagh Coal

1 INTRODUCTION

Castlereagh Coal owns and operates Cullen Valley Mine located near Cullen Bullen in the Central West district of New South Wales. This report has been prepared pursuant to Chapter 2, Part 3.5, Condition 66(6) of the *Protection of the Environment operations Act 1997* for the publication of results of monitoring and the NSW Environmental Protection Authority guideline titled *Requirements for publish pollution monitoring data 2012*.

2 ENVIRONMENT PROTECTION LICENCE DETAILS

Cullen Valley Mine (EPL 10341)

Licensee: Shoalhaven Coal Pty Ltd

Address: Cullen Valley Mine, Portland Road, Cullen Bullen NSW 2790

Link: <http://www.epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=50797&SYSUID=1&LICID=10341>

MONTHLY ENVIRONMENTAL MONITORING DATA

December 2015



3 AIR QUALITY

Table 1 *Depositional Dust Monitoring Results*

Obtained: 13/1/2016		Premise: Cullen Valley Mine		
Published: 15/1/2016		Licensee: Shoalhaven Coal		
		EPL number: 10341		
		Exposure Period: 32 days		
Sampling Point	Start Date	End Date	Insoluble Solids (g/m ² /month)	Rolling Annual Average
CDD1 (Railway)	10/12/2015	11/01/2016	0.2	0.3
CDD2 (Hillcroft)	10/12/2015	11/01/2016	0.5	3.3
CDD3 (Office)	10/12/2015	11/01/2016	0.8	0.5
CDD4 (Cranes)	10/12/2015	11/01/2016	0.5	0.8
CDD5 (Doble)	10/12/2015	11/01/2016	0.3	0.7
Annual Average Limit				4.0

Required Frequency: Monthly - exposure period 30 ± 2 days.

All depositional dust sampling locations were in compliance with the rolling annual average limit (4g/m²/month) for the month of December.

Table 2 *High Volume Air Sampler Monitoring Results*

Obtained: 11/1/2016		Premise: Cullen Valley Mine	
Published: 15/1/2016		Licensee: Shoalhaven Coal	
		EPL number: 10341	
Sampling Point	Run Date	PM ₁₀ (µg/m ³)	TSP (µg/m ³)^
HV02 (EPA Point 3)	01-Dec-15	16	40.0
	07-Dec-15	13	32.5
	13-Dec-15	28	70.0
	19-Dec-15	38	95.0
	25-Dec-15	9	22.5
	31-Dec-15	12	30.0
Annual Average		8.4	21.0
24 Hour Limit		50	--
Annual Average Limit		30	90

Required Frequency: High Volume Air Sample run event every six days for 24 hours

-- No Limit

[^] TSP result is an estimate obtained from a calculation of the PM₁₀ concentration.

The 24 hour maximum PM₁₀ allowable limit of 50µg/m³ was not exceeded for the month of December.

The TSP and PM₁₀ annual average results were in compliance with the annual average limit for the month of December.

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4 WATER QUALITY

Table 3 *Monthly Water Quality Results*

Sampled:	11/12/2015	Premise:	Cullen Valley Mine	
Obtained:	11/12/2015	Licensee:	Shoalhaven Coal	
Published:	7/1/2016	EPL number:	110341	
Sampling Point	Frequency	Pollutant	Limit	Measurement
Dam 1 (Point 1)	Monthly	pH (pH unit)	6.5 – 8.5	8.25
		TSS (mg/L)	50	11
		Oil & Grease (mg/L)	10	<2
		Conductivity (µS/cm)*	--	ND
		Total Iron (mg/L)*	--	ND
		Total Manganese (mg/L)*	--	ND
Dam 4 (Point 4)	Monthly	pH (pH unit)	6.5 – 8.5	7.81
		TSS (mg/L)	50	<5
		Oil & Grease (mg/L)	10	<2
		Conductivity (µS/cm)*	--	ND
		Total Iron (mg/L)*	--	ND
		Total Manganese (mg/L)*	--	ND

-- No limit provided in EPL 10341

ND – no data as there was no discharge from the site during this period.

* Only analysed during discharge events.

5 NOISE LIMITS

Noise monitoring was undertaken during December 2015. The Quarter 4, 2015 Environmental Noise Monitoring report (Global Acoustics Ref: 15451_R02, 13/01/2016) indicates the Cullen Valley Mine complied with both consent conditions and the EPL LAeq 15-minute noise limits during this monitoring event.

6 BLASTING

No blasting was undertaken during December 2015. Cullen Valley Mine is not currently operating.

7 DISCLAIMER

This report is considered accurate at the date of issue with regard to current environmental conditions. Monitoring results may vary from those presented in this report following further assessment. This report must not be reproduced except in full. Results or figures from this report must not be used without acknowledgment.

Yours Faithfully,

CASTLEREAGH COAL