

## **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

June 2015

## 3 AIR QUALITY

**Table 1** *Depositional Dust Monitoring Results*

<b>Obtained:</b> 30/06/2015		<b>Premise:</b> Cullen Valley Mine		
<b>Published:</b> 17/09/2015		<b>Licensee:</b> Shoalhaven Coal		
		<b>EPL number:</b> 10341		
		<b>Exposure Period:</b> 32 days		
Sampling Point	Start Date	End Date	Insoluble Solids (g/m <sup>2</sup> /month)	Annual Average
CDD1 (Railway)	25-May-2015	26-Jun-2015	0.4	0.4
CDD2 (Hillcroft)	25-May-2015	26-Jun-2015	0.2	2.4
CDD3 (Office)	25-May-2015	26-Jun-2015	<0.1	0.7
CDD4 (Cranes)	25-May-2015	26-Jun-2015	0.2	1.0
CDD5 (Doble)	25-May-2015	26-Jun-2015	0.4	1.4
Annual Average Limit				4.0

Required Frequency: Monthly - exposure period 30 ± 2 days

All depositional dust sampling locations were in compliance with the annual average limit (4g/m<sup>2</sup>/month) for the month of June.

**Table 2** *High Volume Air Sampler Monitoring Results*

<b>Premise:</b>		Cullen Valley Mine	
<b>Obtained:</b>	06/07/2015	<b>Licensee:</b>	Shoalhaven Coal
<b>Published:</b>	17/09/2015	<b>EPL number:</b>	10341
Sampling Point	Run Date	PM <sub>10</sub> (µg/m <sup>3</sup> )	TSP (µg/m <sup>3</sup> )
HV02 (EPA Point 3)	4-Jun-2015	< detection limits	< detection limits
	10-Jun-2015	2	5
	16-Jun-2015	1	2.5
	22-Jun-2015	4	10
	28-Jun-2015	3	7.5
Annual Average		7.6	19
24 Hour Limit		50	--
Annual Average Limit		30	90

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

The 24 hour maximum PM<sub>10</sub> allowable limit of 50µg/m<sup>3</sup> was not exceeded for the month of June.

The TSP and PM<sub>10</sub> annual average results were in compliance with the annual average limit for the month of June.

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## 4 WATER QUALITY

**Table 3** *Discharge Water Quality Results*

<b>Sampled:</b>	N/A	<b>Premise:</b>	Cullen Valley Mine	
<b>Obtained:</b>	N/A	<b>Licensee:</b>	Shoalhaven Coal	
<b>Published:</b>	17/09/2015	<b>EPL number:</b>	110341	
Sampling Point	Frequency	Pollutant	Limit	Measurement
Dam 1 (Point 1)	Weekly During Discharge	pH (pH unit)	6.5 – 8.5	ND
		TSS (mg/L)	50	ND
		Oil & Grease (mg/L)	10	ND
		Conductivity (µS/cm)	--	ND
		Total Iron (mg/L)	--	ND
		Total Manganese (mg/L)	--	ND
Dam 4 (Point 4)	Weekly During Discharge	pH (pH unit)	6.5 – 8.5	ND
		TSS (mg/L)	50	ND
		Oil & Grease (mg/L)	10	ND
		Conductivity (µS/cm)	--	ND
		Total Iron (mg/L)	--	ND
		Total Manganese (mg/L)	--	ND

-- No limit provided in EPL 10341

ND – no discharge during reporting period

## 5 NOISE LIMITS

Noise monitoring is conducted on a quarterly basis by Global Acoustics. The full report is available on the Castlereagh Coal website (<http://www.castlereaghcoal.com.au/>).

**Table 4** *Quarterly Noise Monitoring Results*

<b>Sampled:</b> 22/06/2015		<b>Premise:</b> Invincible Colliery			
<b>Obtained:</b> 29/09/2015		<b>Licensee:</b> Shoalhaven Coal			
<b>Published:</b> 29/09/2015		<b>EPL number:</b> 1095			
Sampling Point	Frequency	Monitoring Time	Reported Noise Level L <sub>Aeq</sub> (dB)	Daytime Noise Impact Assessment Criteria L <sub>Aeq</sub> (15-minute)	Exceedance
Red Springs	Quarterly	14:06 (daytime)	32	<b>37</b>	NA*
Hillcroft		14:29 (daytime)	39	<b>35</b>	NA*
Forest Lodge		14:56 (daytime)	28	<b>40</b>	NA*
Doble Gate		12:16 (daytime)	49	<b>43</b>	NA*
Tilley		12:37 (daytime)	69	<b>43</b>	NA*

NA\* in exceedance column means atmospheric conditions were outside the conditions specified in development consent and so impact assessment criteria is not applicable.

The Cullen Valley Mine complied with the consent and EPL L<sub>Aeq</sub> (15minute) noise limits at all monitoring locations during the Quarter 2, 2015 monitoring.

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### 6 BLASTING

No blasting was undertaken during June 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**