

# **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 publishing pollution monitoring data (2013).

## **2 ENVIRONMENTAL PROTECTION LICENCE DETAILS**

### **Cullen Valley Mine (EPL 10341)**

**Licensee:** Shoalhaven Coal Pty Ltd

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

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

## **3 ENVIRONMENTAL PROTECTION LICENCE DETAILS**

### **3.1 DEPOSITIONAL DUST**

All depositional dust sampling locations were in compliance with the rolling annual average limit (4 g/m<sup>2</sup> /month) for the period May 2025 to April 2025. Maximum annual increase in deposited dust levels is below the criteria limit of 2 g/m<sup>2</sup> /month. Depositional dust monitoring results are presented in **Table 1**.

Table 1: Depositional Dust Monitoring Results: April 2025

<b>Obtained:</b> 23/07/2025		<b>Premise:</b> Cullen Valley Mine		
<b>Published:</b> 28/07/2025		<b>Licensee:</b> Shoalhaven Coal		
		<b>EPL Number:</b> 10341		
		<b>Exposure</b>		<b>Period:</b> 28 days
Sampling Point	Start Date	End Date	Insoluble Solids (g/m <sup>2</sup> /month)	Rolling Annual Average (g/m <sup>2</sup> /month)
CDD1 (Railway)	03/04/2025	01/05/2025	0.4	0.75
CDD2 (Hillcroft)	03/04/2025	01/05/2025	0.6	0.59
CDD3 (Office)	03/04/2025	01/05/2025	0.4	1.06
CDD4 (Cranes)	03/04/2025	01/05/2025	0.7	0.93
CDD5 (Doble)	03/04/2025	01/05/2025	0.5	0.58
<b>Annual Average Limit</b>				<b>4.0</b>

Required Frequency: Monthly - exposure period 30 ± 2 days

Rolling annual average calculation period from May 2024 to April 2025

### 3.2 PM<sub>10</sub> AND TSP

The 24-hour maximum PM<sub>10</sub> particulate matter concentration less than 10 microns (PM<sub>10</sub>) criterion of 50 µg/m<sup>3</sup> was not exceeded during April 2025. The PM<sub>10</sub> and total suspended particulate (TSP) annual average results were in compliance with the annual average limit for the period May 2024 to April 2025.

PM<sub>10</sub> and TSP results for April 2025 are presented in **Table 2**.

Table 2: High Volume Air Sampler Monitoring Results: April 2025

<b>Obtained:</b> 23/07/2025		<b>Premise:</b>	Cullen Valley Mine
<b>Published:</b> 28/07/2025		<b>Licensee:</b>	Shoalhaven Coal
		<b>EPL Number:</b>	10341
Sampling Point	Run Date	PM <sub>10</sub> (µg/m <sup>3</sup> )	TSP (µg/m <sup>3</sup> ) ^
<b>HVAS1</b>	05/04/2025	13	32.5
	11/04/2025	27	67.5
	15/04/2025	36	90.0
	17/04/2025	19	47.5
	23/04/2025	10	25.0
	28/04/2025	4	10.0
<b>Rolling Annual Average (Calculation period May 2024 to April 2025)</b>		15.6	46.8
<b>24 Hour Limit</b>		<b>50</b>	--
<b>Annual Average Limit</b>		<b>30</b>	<b>90</b>

^TSP calculated from an estimate of PM<sub>10</sub>

Required Frequency: Weekly – High Volume Air Sample run events occur every six days for 24 hours.

-- No Limit  
SNR- Sampled but Analysis Not Received by sampling company.

## 4 SURFACE WATER QUALITY

A discharge event is deemed to occur when water leaves the site either through the overflow channel or as a result of actively pumping water. Site did not discharge from Dam 3 (EPA Point 1) in April 2025, samples were collected from Dam 3 for due diligence purposes only. Discharge was observed at Dam 4 (EPA Point 4) throughout April 2025 and was sampled weekly.

Water quality results are presented in **Table 3**.

**Table 3: Discharge Water Quality Results – April 2025**

<b>Obtained:</b> 23/07/2025		<b>Premise:</b> Cullen Valley Mine			
<b>Published:</b> 29/07/2025		<b>Licensee:</b> Shoalhaven Coal			
		<b>EPL Number:</b> 10341			
Sampling Point Frequency	Frequency	Pollutant	Limit	Date	Measurement
Dam 3  Due Diligence Sample (Non-Discharge) <sup>1</sup>	N/A	pH (pH unit) (Field)*	6.5 – 8.5	03/04/2025	7.3
		Conductivity (µS/cm)	--	03/04/2025	210
		TSS (mg/L)	50	03/04/2025	29
		Oil & Grease (mg/L)	10	03/04/2025	<5
		Total Iron (mg/L)	--	03/04/2025	0.18
		Total Manganese (mg/L)	--	03/04/2025	0.10
Dam 4 (EPA Point 4)	Weekly during discharge	pH (pH unit) (Field)*	6.5 – 8.5	03/04/2025	7.4
		Conductivity (µS/cm)	--	03/04/2025	620
		TSS (mg/L)	50	03/04/2025	15
		Oil & Grease (mg/L)	10	03/04/2025	<5
		Total Iron (mg/L)	--	03/04/2025	0.53
		Total Manganese (mg/L)	--	03/04/2025	0.54

		pH (pH unit) (Field)*	6.5 – 8.5	9/04/2025	7.0
		Conductivity (µS/cm)	--	9/04/2025	629
		TSS (mg/L)	50	9/04/2025	8
		Oil & Grease (mg/L)	10	9/04/2025	<5
		Total Iron (mg/L)	--	9/04/2025	0.18
		Total Manganese (mg/L)	--	9/04/2025	0.228
		pH (pH unit) (Field)*	6.5 – 8.5	16/04/2025	7.0
		Conductivity (µS/cm)	--	16/04/2025	669
		TSS (mg/L)	50	16/04/2025	<5
		Oil & Grease (mg/L)	10	16/04/2025	<5
		Total Iron (mg/L)	--	16/04/2025	0.26
		Total Manganese (mg/L)	--	16/04/2025	0.308
		pH (pH unit) (Field)*	6.5 – 8.5	23/04/2025	6.93
		Conductivity (µS/cm)	--	23/04/2025	678
		TSS (mg/L)	50	23/04/2025	<5

		Oil & Grease (mg/L)	10	23/04/2025	<5
		Total Iron (mg/L)	--	23/04/2025	0.30
		Total Manganese (mg/L)	--	23/04/2025	0.39
		pH (pH unit) (Field)*	6.5 – 8.5	30/04/2025	6.93
		Conductivity (µS/cm)	--	30/04/2025	624
		TSS (mg/L)	50	30/04/2025	5
		Oil & Grease (mg/L)	10	30/04/2025	<5
		Total Iron (mg/L)	--	30/04/2025	0.26
		Total Manganese (mg/L)	--	30/04/2025	0.268

1 – sample collected for due diligence purposes only.

--No limit provided in EPL 10341

\*Field sheet result used due to Laboratory analysis date against holding time for pH.

The pH, TSS and oil and grease were complaint at Dam 4 discharge point. Dam 3 was sampled for due diligence purposes only as there was no discharge conducted throughout the reporting period.

## 5 NOISE LIMITS

Attended noise monitoring is required to be undertaken on a quarterly frequency. Noise Monitoring reports for previous quarters are available on the Castlereagh Coal website: <https://ccoal.com.au/environmental-reporting-compliance/>

## 6 BLASTING

No blasting was undertaken during April 2025.

## **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**