

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/m² /month) for the period December 2024 to November 2025. Maximum annual increase in deposited dust levels is below the criteria limit of 2 g/m² /month. Depositional dust monitoring results are presented in **Table 1**.

Table 1: Depositional Dust Monitoring Results: November 2025

Obtained: 17/12/2025		Premises: Cullen Valley Mine		
Published: 06/01/2026		Licensee: Shoalhaven Coal		
		EPL Number: 10341		
		Exposure		Period: 31 days
Sampling Point	Start Date	End Date	Insoluble Solids (g/m ² /month)	Rolling Annual Average (g/m ² /month)
CDD1 (Railway)	03/11/2025	04/12/2025	0.5	0.6
CDD2 (Hillcroft)	03/11/2025	04/12/2025	0.4	0.4
CDD3 (Office)	03/11/2025	04/12/2025	0.5	1.1
CDD4 (Cranes)	03/11/2025	04/12/2025	0.5	0.5
CDD5 (Doble)	03/11/2025	04/12/2025	0.5	0.5
Annual Average Limit				4.0

Required Frequency: Monthly - exposure period 30 ± 2 days

Rolling annual average calculation period from December 2024 to November 2025

3.2 PM₁₀, PM_{2.5} AND TSP

The 24-hour maximum PM₁₀ particulate matter concentration less than 10 microns (PM₁₀) criterion of 50 µg/m³ was not exceeded during October 2025. The PM₁₀, PM_{2.5} and total suspended particulate (TSP) annual average results were in compliance with the annual average limit for the period December 2024 to November 2025.

PM₁₀, PM_{2.5} and TSP results for November 2025 are presented in **Table 2**.

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

Obtained: 04/01/2026		Premises: Cullen Valley Mine		
Published: 06/01/2026		Licensee: Shoalhaven Coal		
		EPL Number: 10341		
Sampling Point	Run Date	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	TSP (µg/m ³) ^
HVAS1	06/11/2025	9	4.5	22.5
	14/11/2025	11	5.5	27.5
	24/11/2025	12	6.0	30.0
	25/11/2025	16	8.0	40.0
Rolling Annual Average (Calculation period December 2024 to November 2025)		10.8	5.4	27.1
24 Hour Limit		50	25	--
Annual Average Limit		25	8	90

^TSP calculated from an estimate of PM₁₀

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

-- No Limit

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 November 2025, samples were collected from Dam 3 for due diligence purposes only. Discharge was observed at Dam 4 (EPA Point 4) throughout November 2025 and was sampled weekly.

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

Table 3: Discharge Water Quality Results – November 2025

Obtained: 17/12/25 Premises: Cullen Valley Mine Published: 6/01/2026 Licensee: Shoalhaven Coal EPL Number: 10341					
Sampling Point Frequency	Frequency	Pollutant	Limit	Date	Measurement
Dam 3 Due Diligence Sample (Non-Discharge) ¹	Monthly	pH (pH unit)	6.5 – 8.5	03/11/2025	7.0
		Conductivity (µS/cm)	650	03/11/2025	200
		TSS (mg/L)	50	03/11/2025	10
		Oil & Grease (mg/L)	10	03/11/2025	<5
		Total Iron (mg/L)	0.3	03/11/2025	0.6
		Total Manganese (mg/L)	1.9	03/11/2025	0.05
Discharge Point 1 (Dam 3) (EPA Point 1)	Weekly during discharge	pH (pH unit)	6.5 – 8.5	--	N/A
		Conductivity (µS/cm)	650	--	N/A
		TSS (mg/L)	50	--	N/A
		Oil & Grease (mg/L)	10	--	N/A
		Total Boron (mg/L)	0.94	--	N/A
		Total Cobalt (mg/L)	0.0014	--	N/A
		Total Copper (mg/L)	0.0014	--	N/A
		Total Nickel (mg/L)	0.011	--	N/A

MONTHLY ENVIRONMENTAL MONITORING DATA
November 2025



Sampling Point Frequency	Frequency	Pollutant	Limit	Date	Measurement
Discharge Point 1 (Dam 3) (EPA Point 1)	Weekly during discharge	Total Zinc (mg/L)	0.008	--	N/A
		Total Iron (mg/L)	0.3	--	N/A
		Total Manganese (mg/L)	1.9	--	N/A
Dam 4 (EPA Point 4)	Weekly during discharge	pH (pH unit)	6.5 – 8.5	05/11/2025 12/11/2025 19/11/2025 26/11/2025	8.1 7.3 7.3 7.1
		Conductivity (µS/cm)	-- 650	05/11/2025 12/11/2025 19/11/2025 26/11/2025	413 373 427 400
		TSS (mg/L)	50	05/11/2025 12/11/2025 19/11/2025 26/11/2025	<5 36 12 18
		Oil & Grease (mg/L)	10	05/11/2025 12/11/2025 19/11/2025 26/11/2025	<5 <5 <5 <5
		Total Boron (mg/L)	-- 0.94	05/11/2025 12/11/2025 19/11/2025 26/11/2025	<0.05 <0.05 <0.05 <0.05
		Total Cobalt (mg/L)	- 0.0014	05/11/2025 12/11/2025 19/11/2025 26/11/2025	<0.001 0.001 <0.001 0.001
		Total Copper (mg/L)	- 0.0014	05/11/2025 12/11/2025 19/11/2025 26/11/2025	<0.001 <0.001 <0.001 <0.001
		Total Nickel (mg/L)	- 0.011	05/11/2025 12/11/2025 19/11/2025 26/11/2025	0.005 0.006 0.003 0.005
		Total Zinc (mg/L)	- 0.008	05/11/2025 12/11/2025 19/11/2025 26/11/2025	<0.005 <0.005 <0.005 <0.005

Sampling Point Frequency	Frequency	Pollutant	Limit	Date	Measurement
Dam 4 (EPA Point 4)	Weekly during discharge	Total Iron (mg/L)	- 0.3	05/11/2025	0.57
				12/11/2025	0.95
				19/11/2025	0.44
				26/11/2025	1.06
		Total Manganese (mg/L)	- 1.9	05/11/2025	0.247
				12/11/2025	0.374
				19/11/2025	0.260
				26/11/2025	0.368

1 – sample collected for due diligence purposes only.

A variation to analyte concentration limits was received by the EPA as part of the variation to EPL10341 on 8 August 2025. The concentrations for pH, TSS, conductivity, oil and grease, manganese, nickel, cobalt, copper, zinc and boron at Dam 4 were compliant for all weeks during discharge in November. Iron concentration limits were exceeded in all four weeks.

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 November 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