

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 February 2025 to January 2026. 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: January 2026

Obtained: 12/02/2026		Premises: Cullen Valley Mine		
Published: 16/03/2026		Licensee: Shoalhaven Coal Pty Ltd		
		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)	05/01/2026	05/02/2026	0.5	0.6
CDD2 (Hillcroft)	05/01/2026	05/02/2026	0.2	0.4
CDD3 (Office)	05/01/2026	05/02/2026	1.1	0.6
CDD4 (Cranes)	05/01/2026	05/02/2026	0.6	0.6
CDD5 (Doble)	05/01/2026	05/02/2026	0.8	0.5
Annual Average Limit				4.0

Required Frequency: Monthly - exposure period 30 ± 2 days

Rolling annual average calculation period from February 2025 to January 2026

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 January 2026. The PM₁₀, PM_{2.5} and total suspended particulate (TSP) annual average results were compliant with the annual average limit for the period February 2025 to January 2026.

PM₁₀, PM_{2.5} and TSP results for January 2026 are presented in **Table 2**.

Table 2: High Volume Air Sampler Monitoring Results: January 2026

Obtained: 23/02/2026		Premises: Cullen Valley Mine		
Published: 16/03/2026		Licensee: Shoalhaven Coal Pty Ltd		
		EPL Number: 10341		
Sampling Point	Run Date	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	TSP (µg/m ³) ^
HVAS1	06/01/2026	15.0	7.5	37.5
	13/01/2026	19.0	9.5	47.5
	18/01/2026	3.0	1.5	7.5
	27/01/2026	17.0	8.5	42.5
	30/01/2026	21.0	10.5	52.5
Rolling Annual Average (Calculation period February 2025 to January 2026)		9.0	4.5	22.6
24 Hour Limit		50	25	--
Annual Average Limit		25	8	90

^TSP and PM_{2.5} 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 January 2026, samples were collected from Dam 3 for due diligence purposes only. Discharge was observed at Dam 4 (EPA Point 4) throughout January 2026 and was sampled weekly.

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

Table 3: Discharge Water Quality Results – January 2026

Obtained: 12/03/26		Premises: Cullen Valley Mine			
Published: 16/03/26		Licensee: Shoalhaven Coal Pty Ltd			
		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	04/12/2025	7.2
		Conductivity (µS/cm)	650		200
		TSS (mg/L)	50		19
		Oil & Grease (mg/L)	10		<5
		Total Iron (mg/L)	0.3		0.3
		Total Manganese (mg/L)	1.9		0.03
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

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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	07/01/2026 14/01/2026 21/01/2026 28/01/2026	7.3 7.1 7.2 7.1		
		Conductivity (µS/cm)	-- 650	07/01/2026 14/01/2026 21/01/2026 28/01/2026	382 392 369 452		
		TSS (mg/L)	50	07/01/2026 14/01/2026 21/01/2026 28/01/2026	11 <5 14 16		
		Oil & Grease (mg/L)	10	07/01/2026 14/01/2026 21/01/2026 28/01/2026	<5 <5 <5 <5		
		Total Boron (mg/L)	-- 0.94	07/01/2026 14/01/2026 21/01/2026 28/01/2026	<0.05 <0.05 <0.05 <0.05		
		Total Cobalt (mg/L)	- 0.0014	07/01/2026 14/01/2026 21/01/2026 28/01/2026	<0.001 <0.001 <0.001 <0.001		
		Total Copper (mg/L)	- 0.0014	07/01/2026 14/01/2026 21/01/2026 28/01/2026	<0.001 <0.001 <0.001 <0.001		
		Total Nickel (mg/L)	- 0.011	07/01/2026 14/01/2026 21/01/2026 28/01/2026	0.005 0.006 0.006 0.009		
		Dam 4 (EPA Point 4)	Weekly during discharge	Total Zinc (mg/L)	- 0.008	07/01/2026 14/01/2026 21/01/2026 28/01/2026	0.009 <0.005 <0.005 <0.005
				Total Iron (mg/L)	- 0.3	07/01/2026 14/01/2026 21/01/2026 28/01/2026	0.81 0.36 0.53 0.73

Sampling Point Frequency	Frequency	Pollutant	Limit	Date	Measurement
Dam 4 (EPA Point 4)	Weekly during discharge	Total Manganese (mg/L)	- 1.9	07/01/2026	0.321
				14/01/2026	0.339
				21/01/2026	0.418
				28/01/2026	0.605

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, oil and grease, EC, TSS, Cobalt, Copper, Manganese, Nickel and Boron at Dam 4 were compliant with the updated concentration limits for all weeks during discharge in January 2026. Zinc concentrations limits were exceeded in one week and Iron concentration limits were exceeded in all four weeks in January.

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 January 2026.

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