

INVINCIBLE COLLIERY

Monthly Environmental Monitoring Data

for

Castlereagh Coal

1 INTRODUCTION

Castlereagh Coal owns and operates Invincible Colliery 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

Licensee: Shoalhaven Coal Pty Ltd

Address: Invincible Colliery, Castlereagh Highway, Cullen Bullen, NSW 2790

Link: https://app.epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=287085&SYSUID=1&L

ICID=1095

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 2 /month) for the period May 2024 to April 2025. The maximum annual increase in deposited dust levels is also below the criteria limit of 2 g/m 2 /month.

Depositional dust monitoring results are presented in **Table 1**.



Table 1: Depositional Dust Monitoring Results: April 2025

Obtained: Published:	09/05/2025 20/07/2025	Premise: Licensee: EPL Number: Exposure Period:	Invincible Collie Shoalhaven 1095 28 days	ery	
Sampling Point	Start Date	End Date	Insoluble Solids (g/m²/month)	Rolling Annual Average (g/m²/month)	
ID-D1 (EPA Point 3)	3/04/2025	1/05/2025	0.7	1.00	
ID-D2 (EPA Point 4)	3/04/2025	1/05/2025	0.9	1.30	
ID-D3 (EPA Point 5)	3/04/2025	1/05/2025	0.3	0.79	
ID-D4 (EPA Point 6)	3/04/2025	1/05/2025	0.2	1.11	
ID-D5 (EPA Point 7)	3/04/2025	1/05/2025	0.2	1.23	
ID-D6 (EPA Point 8)	3/04/2025	1/05/2025	1.2	1.00	
Annual Average Limit 4.0					

Required Frequency: Monthly - exposure period 30 ± 2 days

3.2 PM10 AND TSP

The 24-hour maximum PM_{10} particulate matter concentration less than 10 microns (PM_{10}) criterion of 50 μ g/m³ was exceeded during April 2025. On 28 April 2025 the result recorded 62 μ g/m³. An investigation was undertaken by site and a report was submitted to the relevant regulators and it will be detailed in the 2025 Invincible Annual Review.

The TSP and PM₁₀ annual rolling average results were calculated with the available data for the period of May 2024 to April 2025.

The average values were less than the annual average EPL limit as presented in Table 2.

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

		Premise:	Invincible Colliery
Obtained:	18/07/2025	Licensee:	Shoalhaven
Published:	25/07/2025	EPL Number:	1095
Sampling Point	Run Date	PM10 (μg/m³)	TSP (μg/m³)
	2/04/2025	12	30
HVAS1 (EPA Point 3)	4/04/2025	17	34
	7/04/2025	18	33
	8/04/2025	Invalid	24
	11/04/2025	Invalid	69
	15/04/2025	38	67
	16/04/2025	16	39
	17/04/2025	18	40
	23/04/2025	13	15
	24/04/2025	Invalid	26
	28/04/2025	62	2
	29/04/2025	4	10
	30/04/2025	Invalid	12
Rolling Annual Average		13	22
(Calculation period N	lay 2024 to April 2025)		
24 Hour Limit		50	
	Annual Average Limit	30	90

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

MONTHLY ENVIRONMENTAL MONITORING DATA April 2025



-- No Limit

Invalid - due to error in run hours. Catchup runs completed in May/June 2025 to maintain 60 annual samples. Bold – Exceedance of the 24 Hour Limit.

4 SURFACE WATER QUALITY

A discharge event is deemed to occur when water leaves the site either through the overflow channel of the Main Dam or as a result of actively pumping water. No discharge occurred from the Main Dam Discharge Point 2 (LD002) during April 2025. A monthly sample was collected from the Main Dam for due diligence purposes only.

Water quality results are presented in Table 3.

Table 3: Discharge Water Quality Results -April 2025

Sampled:	09/04/2025	Premise:	Invincible Colliery	
Obtained:	23/07/2025	Licensee:	Shoalhaven	
Published:	28/07/2025	EPL Number:	1095	
			100 Percentile	Sample
Sampling Point	Frequency	Pollutant	Concentration	Concentration
			Limit	
	Monthly (for	pH (pH unit)		6.3
Main Dam	due	TSS (mg/L)		40
	diligence)	Oil & Grease (mg/L)		<5
Discharge Point 2	Weekly	pH (pH unit)	6.5 - 8.5	N/A
(LD002)	during	TSS (mg/L)	30	N/A
(EPA Point 2)	discharge	Oil & Grease (mg/L)	10	N/A

⁻⁻No limit applies

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