

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&SYSU

ID=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 (4g/m² /month) for the period April 2023 to March 2024. Maximum annual increase in deposited dust levels are also below the criteria limit of 2 g/m2 /month except for sampling point CDD4 and CDD5 which were slightly above the limit criteria. Depositional dust monitoring results are presented in **Table 1**.

MONTHLY ENVIRONMENTAL MONITORING DATA March 2024



Table 1: Depositional Dust Monitoring Results: March 2024

| Obtained: Published: | 19/03/2024 25/06/2024 | Premise: Licensee: EPL Number: Exposure Period: | Cullen Valley Mine Shoalhaven Coal 10341 31 days | |
|-------------------------|--------------------------|--|---|--|
| Sampling Point | Start Date | End Date | Insoluble Solids (g/m²/month) | Rolling Annual Average (g/m²/month) |
| CDD1 (Railway) | 06/02/2024 | 07/03/2024 | 1.70 | 0.62 |
| CDD2 (Hillcroft) | 06/02/2024 | 07/03/2024 | 1.00 | 0.51 |
| CDD3 (Office) | 06/02/2024 | 07/03/2024 | 1.40 | 0.70 |
| CDD4 (Cranes) | 06/02/2024 | 07/03/2024 | 3.10 | 1.17 |
| CDD5 (Doble) | 06/02/2024 | 07/03/2024 | 2.40 | 0.68 |
| | | Δn | nual Average I imit | 4.0 |

Required Frequency: Monthly - exposure period 30 ± 2 days

Rolling annual average calculation period from April 2023 to March 2024.

3.2 PM10 AND TSP

The particulate matter (PM_{10}) and total suspended particulate (TSP) were not recorded for the month of March 2024 due to a delay in the replacement of the dust gauge generator. The TSP and PM_{10} annual rolling average results were calculated with the available data for the period of April 2023 to March 2024. The average values were less than the annual average EPL limit as presented in **Table 2**.

Table 2: High Volume Air Sampler Monitoring Results: March 2024

| | | Premise: | Cullen Valley Mine | |
|------------------------|-----------------------------|--------------|--------------------|--|
| Obtained: | N/A | Licensee: | Shoalhaven Coal | |
| Published: | 25/06/2024 | EPL Number: | 10341 | |
| Sampling Point | Run Date | PM10 (μg/m³) | TSP (µg/m³) ^ | |
| | 05/03/2024 | NR | NR | |
| HVAS1 (EPA Point 3) | 11/03/2024 | NR | NR | |
| | 17/03/2024 | NR | NR | |
| | 23/03/2024 | NR | NR | |
| | 29/03/2024 | NR | NR | |
| Rolling Annual Average | | | | |
| (Calculation perio | od April 2023 to March | 9.31 | 15.15 | |
| | 2024) | | | |
| | 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. -- 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 March 2024, a sample was collected from Dam 3 for due diligence purposes only. A discharge event was observed at Dam 4 (EPA Point 4) in March 2024. Water quality results are presented in **Table 3**.

Table 3: Discharge Water Quality Results - March 2024

| Obtained: Published: | 19/03/2024 25/06/2024 | Premise: Licensee: EPL Number: | Cullen Valley Mine Shoalhaven Coal 10341 | | |
|---------------------------|-------------------------------|--------------------------------------|--|------------|-------------|
| Sampling Point | Frequency | Pollutant | Limit | Date | Measurement |
| Dam 3 (EPA | Weekly during discharge | pH (pH unit) | 6.5 - 8.5 | 6/03/2024 | 8.02 |
| | | TSS (mg/L) | 50 | 6/03/2024 | 9 |
| | | Oil & Grease (mg/L) | 10 | 6/03/2024 | <5 |
| Point 1) ¹ | | Conductivity (µS/cm)* | | 6/03/2024 | 316 |
| Point 1) | | Total Iron (mg/L)* | | 6/03/2024 | 0.17 |
| | | Total Manganese (mg/L)* | | 6/03/2024 | 0.08 |
| | | pH (pH unit) | 6.5 - 8.5 | 6/03/2024 | 7.59 |
| | | TSS (mg/L) | 50 | 6/03/2024 | 9 |
| Dam 4 (EPA Point 4) | | Oil & Grease (mg/L) | 10 | 6/03/2024 | <5 |
| | | Conductivity (µS/cm)* | | 6/03/2024 | 630 |
| | Weekly during discharge | Total Iron (mg/L)* | | 6/03/2024 | 0.12 |
| | | Total Manganese (mg/L)* | | 6/03/2024 | 0.37 |
| | | pH (pH unit) | 6.5 - 8.5 | 15/03/2024 | 7.06 |
| | | TSS (mg/L) | 50 | 15/03/2024 | <5 |
| | | Oil & Grease (mg/L) | 10 | 15/03/2024 | <5 |
| | | Conductivity (µS/cm)* | | 15/03/2024 | 1831 |
| | | Total Iron (mg/L)* | | 15/03/2024 | 0.51 |
| | | Total Manganese (mg/L)* | | 15/03/2024 | 0.25 |
| | | pH (pH unit) | 6.5 - 8.5 | 20/03/2024 | 6.68 |
| | | TSS (mg/L) | 50 | 20/03/2024 | 12 |
| | | Oil & Grease (mg/L) | 10 | 20/03/2024 | <5 |
| | | Conductivity (µS/cm)* | | 20/03/2024 | 610 |
| | | Total Iron (mg/L)* | | 20/03/2024 | 0.09 |
| | | Total Manganese (mg/L)* | | 20/03/2024 | 0.23 |

¹ – sample collected for due diligence purposes only.

The pH, total suspended solids (TSS) and oil and grease concentration were compliant with the EPL limits at Dam 4 which was discharging at the time of sampling. Dam 3 was sampled for due diligence purposes only.

⁻⁻ No limit provided in EPL 10341



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 March 2024.

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