

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 publish pollution monitoring data (2012)*.

2 ENVIRONMENT PROTECTION LICENCE DETAILS

Invincible Colliery (EPL 1095)

Licensee: Shoalhaven Coal Pty Ltd

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

Link: <http://www.epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=50798&SYSUID=1&LICID=1095>

MONTHLY ENVIRONMENTAL MONITORING DATA

October 2017

4 AIR QUALITY

Table 1 *Depositional Dust Monitoring Results*

Obtained: 20/11/2017		Premise: Invincible Colliery		
Published: 20/11/2017		Licensee: Shoalhaven Coal		
		EPL number: 1095		
		Exposure Period: 30 days		
Sampling Point	Start Date	End Date	Insoluble Solids (g/m ² /month)	Rolling Annual Average (g/m ² /month)
ID-D1 (EPA Point 3)	8/09/2017	10/10/2017	0.1	1.3
ID-D2 (EPA Point 4)	8/09/2017	10/10/2017	0.2	0.9
ID-D3 (EPA Point 5)	8/09/2017	10/10/2017	0.6	0.7
ID-D4 (EPA Point 6)	8/09/2017	10/10/2017	0.3	0.7
ID-D5 (EPA Point 7)	8/09/2017	10/10/2017	1.3	1.0
Annual Average Limit				4.0

Required Frequency: Monthly - exposure period 30 ± 2 days

All depositional dust sampling locations were in compliance with the annual average limit (4g/m²/month) for the month of October 2017.

Table 2 *High Volume Air Sampler Monitoring Results*

Obtained: 4/11/2017		Premise: Invincible Colliery	
Published: 20/11/2017		Licensee: Shoalhaven Coal	
		EPL number: 1095	
Sampling Point	Run Date	PM ₁₀ (µg/m ³)	TSP (µg/m ³)^
HVAS1 (EPA Point 3)	03-Oct-17	12	30
	09-Oct-17	3	7.5
	15-Oct-17	<1	<2.5
	21-Oct-17	8	20
	27-Oct-17	15	37.5
Annual Average		8.7	21.8
24 Hour Limit		50	--
Annual Average Limit		25	90

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

-- No Limit

[^] TSP result is an estimate obtained from a calculation of the PM₁₀ concentration.

The 24 hour maximum PM₁₀ allowable limit of 50µg/m³ was not exceeded for the month of October 2017.

The TSP and PM₁₀ annual average results were in compliance with the annual average limit for the month of October 2017.

5 WATER QUALITY

Table 3 *Discharge Water Quality Results*

Sampled: 9/10/2017		Premise: Invincible Colliery		
Obtained: 27/10/2017		Licensee: Shoalhaven Coal		
Published: 20/11/2017		EPL number: 1095		
Sampling Point	Frequency	Pollutant	100 Percentile Concentration Limit	Sample Concentration
Main Dam	Monthly during discharge	pH (pH unit)	6.5 – 8.5	7.94
		TSS (mg/L)	30	7
		Oil & Grease (mg/L)	10	<5
Discharge Point 2 (EPA Point 2)	Monthly during discharge	pH (pH unit)	6.5 – 8.5	NS
		TSS (mg/L)	30	NS
		Oil & Grease (mg/L)	10	NS

NS – no sample collected.

No discharge events occurred at LD002 during October 2017, therefore no samples were collected. The sample collected at Main Dam was within the stipulated EPL limits.

6 NOISE LIMITS

Routine quarterly noise monitoring was undertaken on 18 October 2017. Invincible Colliery complied with the relevant consent LAeq, 15minute noise limits, where applicable, during Quarter 4, 2017 monitoring.

7 BLASTING

No blasting was undertaken during October 2017. Invincible Colliery is not currently operating.

8 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