

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

February 2018

4 AIR QUALITY

Table 1 *Depositional Dust Monitoring Results*

Obtained: 19/03/2018		Premise: Invincible Colliery		
Published: 19/03/2018		Licensee: Shoalhaven Coal		
		EPL number: 1095		
		Exposure Period: 29 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)	12/02/2018	13/03/2018	0.8	1.3
ID-D2 (EPA Point 4)	12/02/2018	13/03/2018	0.6	0.9
ID-D3 (EPA Point 5)	12/02/2018	13/03/2018	0.8	0.7
ID-D4 (EPA Point 6)	12/02/2018	13/03/2018	0.5	0.6
ID-D5 (EPA Point 7)	12/02/2018	13/03/2018	0.5	0.7
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 February 2018.

Table 2 *High Volume Air Sampler Monitoring Results*

Obtained: N/A		Premise: Invincible Colliery	
Published: 19/03/2018		Licensee: Shoalhaven Coal	
		EPL number: 1095	
Sampling Point	Run Date	PM ₁₀ (µg/m ³)	TSP (µg/m ³) [^]
HVAS1 (EPA Point 3)	6-Feb-18	ND	ND
	12-Feb-18	ND	ND
	18-Feb-18	ND	ND
	24-Feb-18	ND	ND
Annual Average		6.9	17.1
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

ND – No data due to power supply failure. No HVAS data was recorded during February 2018, due to a transformer failure at the substation which supplies power to the HVAS units. The transformer is currently under repair.

5 WATER QUALITY

Table 3 *Discharge Water Quality Results*

Sampled: 13/02/2018		Premise: Invincible Colliery		
Obtained: 6/03/2018		Licensee: Shoalhaven Coal		
Published: 19/03/2018		EPL number: 1095		
Sampling Point	Frequency	Pollutant	100 Percentile Concentration Limit	Sample Concentration
Main Dam ¹	Monthly (for due diligence)	pH (pH unit)	6.5 – 8.5	7.72
		TSS (mg/L)	30	<5
		Oil & Grease (mg/L)	10	<5
Discharge Point 2 (EPA Point 2)	Monthly during discharge	pH (pH unit)	6.5 – 8.5	7.52
		TSS (mg/L)	30	<5
		Oil & Grease (mg/L)	10	<5

NS – no sample collected.

¹ – sample collected for due diligence purposes only.

Discharge point LD002 was observed to be flowing from Main Dam via overflow channel on the 13 February 2018. A sample was collected at both Main Dam and LD002. Both samples reported pH, total suspended solids and oil and grease concentrations within the stipulated EPL limits.

6 NOISE LIMITS

Quarterly noise monitoring is undertaken at Invincible Colliery. The Quarter 1, 2017-2018 noise monitoring report was unavailable during the publication of this report.

7 BLASTING

No blasting was undertaken during February 2018. 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