

#### **Site Information**

**EPL No:** 12870

**EPA Website Link:** <a href="http://epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=40278&SYSUID=1&LICID=12870">http://epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=40278&SYSUID=1&LICID=12870</a>

Licensee: Whitehaven Coal Mining Pty Ltd

Licensee Address: Rocglen Coal Mine, Wean Road, GUNNEDAH NSW 2380

**EPL Monitoring Points:** See Figure 1 below

Sampling Period: January 2019
Obtained Date: 6 February 2019
Publication Date: 6 February 2019

#### **Table 1 - No Pollutant Limits Apply**

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Samples for the Month	Date(s) Sampled	Date(s) Obtained	Min Value	Mean Value	Median Value	Max or Only Value
4	Particulates- Deposited Matter	g/m²/month	Continuous	1	14/01/19	6/02/19	-	-	-	4.4
6	Particulates- Deposited Matter	g/m²/month	Continuous	1	14/01/19	6/02/18	-	-	-	2.7
10	PM <sub>10</sub>	μg/m³	Every 6 days	5	Various	4/02/19	18.6	29.2	28.2	37.4
11	Conductivity	μS/cm	Special				-	-	-	-
11	Total organic carbon	mg/L	Frequency 1*	-	-	-	-	-	-	-
12	Conductivity	μS /cm	Special				-	-	-	-
12	Total organic carbon	mg/L	Frequency 1*	-	-	-	-	-	-	-
	TSS	mg/L					-	-	-	-
	Conductivity	μS/cm	Special				-	-	-	-
13	Oil & Grease	mg/L	Frequency 2**	-	-	-	-	-	-	-
	рН	рН					-	-	-	-
	Total organic carbon	mg/L					-	-	-	-
	TSS	mg/L					-	-	-	-
14	Conductivity	μS/cm		-	<u>-</u>	-	-	-	-	-

## WHITEHAVEN COAL

#### **Rocglen Coal Mine- Monthly Monitoring Summary**

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Samples for the Month	Date(s) Sampled	Date(s) Obtained	Min Value	Mean Value	Median Value	Max or Only Value
	Oil & Grease	mg/L	Special				-	-	-	-
	рН	рН	Frequency 2**				-	-	-	-
	Total organic carbon	mg/L					-	-	-	-
	TSS	mg/L					-	-	-	-
	Conductivity	μS /cm	Cassial				-	-	-	-
15	Oil & Grease	mg/L	Special Frequency 2**	1	-	-	-	-	-	-
	рН	рН	Trequency 2				-	-	-	-
	Total organic carbon	mg/L					-	-	-	-

<sup>&</sup>lt;sup>1</sup>result caused by a regional dust event, not mine related.

#### **Table 2 - Pollutant Limits Apply**

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Samples for the Month	Date(s) Sampled	Date(s) Obtained	Min Value	Max or Only Value	100%ile Limit	Exceedance (Yes/No)	Comments
	TSS	mg/L	Special				-	-	50	-	
11	Oil & Grease	mg/L	Frequency	-	-	-	-	-	10	-	
	рН	рН	1*				-	-	6.5-8.5	-	
	TSS	mg/L	Special				-	-	50	-	
12	Oil & Grease	mg/L	Frequency	-	-	-	-	-	10	-	
	рН	рН	1*				-	-	6.5-8.5	-	

<sup>\*</sup> Special Frequency 1 means the collection of samples as soon as practicable after each discharge commences and in any case not more than 12 hours after each discharge commences.

<sup>\*\*</sup> Special Frequency 2 means collection of samples quarterly (in the event of flow during the quarter) at a time when there is flow and as soon as practicable after each wet weather discharge from points 11 and 12 commences and in any case not more than 12 hours after each discharge commences.



#### Table 3 – Monitoring (Quarterly & Yearly – No Limits apply)

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Samples for the Month	Date Sampled	Date Obtained	Min Value	Mean Value	Median Value	Max Value/Only Value
	Aluminium	mg/L					-	-	-	-
	Arsenic	mg/L					-	-	-	-
	Bicarbonate	mg/L	Va a ale c				-	-	-	-
16	Chloride	mg/L	Yearly	-	-	-	-	-	-	-
	Iron	mg/L					1	-	-	-
	Manganese	mg/L					-	-	-	-
	Sodium	mg/L					-	-	-	-
	Conductivity	μS/cm					-	-	-	-
	Oil & Grease	mg/L					-	-	-	-
16	рН	рН	Quarterly	-	-	-	-	-	-	-
	TOC	mg/L					-	-	-	-
	TSS	mg/L					-	-	-	-



#### **Table 4 – Monitoring (Noise – Limits Apply)**

EPL ID	Date	Start Time	Period (mins)	Rocglen Measured Levels – dB(A) Leq 15min Day	Rocglen Measured Levels – dB(A) Leg 15min Evening	Rocglen Measured Levels – dB(A) L <sub>eq 15min Night</sub>	Rocglen Measured Levels – dB(A) La 1min Night	Limits	Wind speed (m/s)	Compliant (Y/N)	Comments
		-	90	-					-	-	
		-	30		-				-	-	
	-	-	60			-			-	-	
		-	60				-		-	-	
		-	90	-				35 dB(A) Leq (15 min)	-	-	
		-	30		-			Day, Evening, Night	-	-	
N1	-	-	60			-		45dB(A) L <sub>A</sub> (1 min)	-	-	
		-	60				-	Night	-	-	
		-	90	-					-	-	
		-	30		-				-	-	
	-	-	60			-			-	-	
		-	60				-		-	-	
		-	90	-					-	-	
		-	30		-				-	-	
	-	-	60			-			-	-	
		-	60				-		-	-	
		-	90	-				35 dB(A) Leq (15 min)	-	-	
N2		-	30		-			Day, Evening, Night	-	-	
INZ		-	60			-		45dB(A) L <sub>A</sub> (1 min)	-	-	
		-	60				-	Night	-	-	
		-	90	-					-	-	
	_	-	30		-				-	-	
	-	-	60			-			-	-	
		-	60				-		-	-	

Note: Measured noise levels are not necessarily the result of activity at Rocglen Coal Mine



#### Table 5 – Monitoring (Blasts – Limits Apply)

EPL ID	Parameter	Units of Measure	Frequency	No. of Blasts for the Month	Average Value	Max or Only Value	100%ile Limit	(Potential) Non-compliance /breach
BB1	Blast Noise	dB (Lin Peak)	Every Blast	1	1	95.8	120	No
PDI	Blast Vibration	mm/s	Every Blast	1	-	0.16	10	No
BB3	Blast Noise	dB (Lin Peak)	Every Blast	1	-	87.4	120	No
DB3	Blast Vibration	mm/s	Every Blast	1	-	0.39	10	No





Figure 1 – EPL 12870 Monitoring Locations



#### **Site Information**

**EPL No:** 12870

**EPA Website Link:** <a href="http://epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=40278&SYSUID=1&LICID=12870">http://epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=40278&SYSUID=1&LICID=12870</a>

Licensee: Whitehaven Coal Mining Pty Ltd

Licensee Address: Rocglen Coal Mine, Wean Road, GUNNEDAH NSW 2380

**EPL Monitoring Points:** See Figure 1 below

Sampling Period: February 2019
Obtained Date: 22 March2019
Publication Date: 22 March 2019

#### **Table 1 - No Pollutant Limits Apply**

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Samples for the Month	Date(s) Sampled	Date(s) Obtained	Min Value	Mean Value	Median Value	Max or Only Value
4	Particulates- Deposited Matter	g/m²/month	Continuous	1	14/02/19	6/03/19	-	-	-	1.4
6	Particulates- Deposited Matter	g/m²/month	Continuous	1	14/02/19	6/03/18	-	-	-	1.1
10	PM <sub>10</sub>	μg/m³	Every 6 days	3	Various	4/03/19	23.7	101	80.9	201
11	Conductivity	μS/cm	Special		_		-	-	-	-
11	Total organic carbon	mg/L	Frequency 1*	-	-	_	-	-	-	-
12	Conductivity	μS /cm	Special				-	-	-	-
12	Total organic carbon	mg/L	Frequency 1*	-	-	_	-	-	-	-
	TSS	mg/L					-	-	-	-
	Conductivity	μS/cm	Special				-	-	-	-
13	Oil & Grease	mg/L	Frequency 2**	-	-	-	-	-	-	-
	рН	рН					-	-	-	-
	Total organic carbon	mg/L					-	-	-	-
	TSS	mg/L					-	-	-	-
14	Conductivity	μS/cm		-	<u>-</u>	-	-	-	-	-

## WHITEHAVEN COAL

#### **Rocglen Coal Mine- Monthly Monitoring Summary**

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Samples for the Month	Date(s) Sampled	Date(s) Obtained	Min Value	Mean Value	Median Value	Max or Only Value
	Oil & Grease	mg/L	Special				1	-	-	-
	рН	рН	Frequency 2**				-	-	-	-
	Total organic carbon	mg/L					-	-	-	-
	TSS	mg/L					1	-	-	-
	Conductivity	μS /cm	Coosial				1	-	-	-
15	Oil & Grease	mg/L	Special Frequency 2**	1	-	-	1	-	-	-
	рН	рН	Trequency 2				1	-	-	-
	Total organic carbon	mg/L					-	-	-	-

<sup>&</sup>lt;sup>1</sup>result caused by a regional dust event, not mine related.

#### **Table 2 - Pollutant Limits Apply**

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Samples for the Month	Date(s) Sampled	Date(s) Obtained	Min Value	Max or Only Value	100%ile Limit	Exceedance (Yes/No)	Comments
	TSS	mg/L	Special				-	-	50	-	
11	Oil & Grease	mg/L	Frequency	-	-	-	-	-	10	-	
	рН	рН	1*				-	-	6.5-8.5	-	
	TSS	mg/L	Special				-	-	50	-	
12	Oil & Grease	mg/L	Frequency	-	-	-	-	-	10	-	
	рН	рН	1*				-	-	6.5-8.5	-	

<sup>\*</sup> Special Frequency 1 means the collection of samples as soon as practicable after each discharge commences and in any case not more than 12 hours after each discharge commences.

<sup>\*\*</sup> Special Frequency 2 means collection of samples quarterly (in the event of flow during the quarter) at a time when there is flow and as soon as practicable after each wet weather discharge from points 11 and 12 commences and in any case not more than 12 hours after each discharge commences.



#### Table 3 – Monitoring (Quarterly & Yearly – No Limits apply)

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Samples for the Month	Date Sampled	Date Obtained	Min Value	Mean Value	Median Value	Max Value/Only Value
	Aluminium	mg/L					-	-	-	-
	Arsenic	mg/L					1	-	-	-
	Bicarbonate	mg/L	Voorb				-	-	-	-
16	Chloride	mg/L	Yearly	-	-	-	1	-	-	-
	Iron	mg/L					1	-	-	-
	Manganese	mg/L					1	-	-	-
	Sodium	mg/L					-	-	-	-
	Conductivity	μS/cm					-	-	-	5040
	Oil & Grease	mg/L					-	-	-	<5
16	рН	рН	Quarterly	1	21/02/2019	-	1	-	-	8.95
	TOC	mg/L					-	-	-	12
	TSS	mg/L					-	-	-	62



**Table 4 – Monitoring (Noise – Limits Apply)** 

EPL ID	Date	Start Time	Period (mins)	Rocglen Measured Levels – dB(A) Leg 15min Day	Rocglen Measured Levels – dB(A) Leq 15min Evening	Rocglen Measured Levels – dB(A) Leq 15min Night	Rocglen Measured Levels – dB(A) L <sub>A 1min Night</sub>	Limits	Wind speed (m/s)	Compliant (Y/N)	Comments
		15:03	90	I/A					3 m/s NW	Y	Inaudible
	19/02/19	20:38	30		I/A				1.5 m/s NE	Υ	Inaudible
		23:24	60			24			5 m/s S	Υ	Barely audible
		23:24	60				24		5 m/s S	Υ	Engine noise 24-26
		11:37	90	I/A				35 dB(A) Leq (15 min)	3 m/s SW	Υ	Inaudible
N1	20/02/10	20:24	30		<25			Day, Evening, Night	6 m/s S	Υ	Intermittently audible
	20/02/19	00:10	60			I/A		45dB(A) L <sub>A</sub> (1 min)	4.5 m/s S	Υ	Truck noise 28-31 Inaudible
		00:10	60				I/A	Night	4.5 m/s S	Υ	Inaudible
		11:00	90	I/A					4 m/s SE	Υ	Land Chile
		20:53	30		I/A				8 m/s SE	Υ	Inaudible Inaudible
	21/02/19	23: 35	60			I/A			3.5 m/s SE	Υ	
		23: 35	60				I/A		3.5 m/s SE	Υ	Inaudible Inaudible
	19/02/19	13:07	90	I/A					2.5 m/s NW	Υ	Not Measureable
		19:46	30		I/A				1.5 m/s NW	Y	Audible Engine noise 22-28
		22:01	60			28			2 m/s SE	Υ	
		22:01	60				24		2 m/s SE	Υ	Barely audible Engine noise 24  Not Measureable
	20/02/19	09:39	90	N/M				35 dB(A) Leq (15 min)	2.2 m/s SW	Y	Audible Engine noise 22-28
NO		20:01	30		I/A			Day, Evening, Night	6 m/s SE	Υ	Inaudible
N2		22:53	60			I/A		45dB(A) L <sub>A</sub> (1 min)	2 m/s SE	Y	naudible
		22:53	60				I/A	Night	2 m/s SE	Y	Barely audible Engine noise 24
	21/02/19	09:39	90	N/M					2.2 m/s SW	Y	Not Measureable
		20:01	30		I/A				6 m/s SE	Y	Inaudible
		22:53	60			I/A			2 m/s SE	Y	Inaudible
		- 22:53	60				I/A		2 m/s SE	Υ	Inaudible

Note: Measured noise levels are not necessarily the result of activity at Rocglen Coal Mine



#### Table 5 – Monitoring (Blasts – Limits Apply)

EPL ID	Parameter	Units of Measure	Frequency	No. of Blasts for the Month	Average Value	Max or Only Value	100%ile Limit	(Potential) Non-compliance /breach
DD1	Blast Noise	dB (Lin Peak)	Every Blast	2	93	95.6	120	No
BB1	Blast Vibration	mm/s	Every Blast	2	0.2	0.27	10	No
DDO	Blast Noise	dB (Lin Peak)	Every Blast	2	96.2	103.3	120	No
BB3	Blast Vibration	mm/s	Every Blast	2	0.57	0.67	10	No





Figure 1 – EPL 12870 Monitoring Locations



#### **Site Information**

**EPL No:** 12870

**EPA Website Link:** <a href="http://epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=40278&SYSUID=1&LICID=12870">http://epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=40278&SYSUID=1&LICID=12870</a>

Licensee: Whitehaven Coal Mining Pty Ltd

Licensee Address: Rocglen Coal Mine, Wean Road, GUNNEDAH NSW 2380

**EPL Monitoring Points:** See Figure 1 below

Sampling Period: March 2019 Obtained Date: 09 April 2019 Publication Date: 16 April 2019

#### **Table 1 - No Pollutant Limits Apply**

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Samples for the Month	Date(s) Sampled	Date(s) Obtained	Min Value	Mean Value	Median Value	Max or Only Value
4	Particulates- Deposited Matter	g/m²/month	Continuous	1	6/03/19	19/03/19	-	-	-	2.9
6	Particulates- Deposited Matter	g/m²/month	Continuous	1	6/03/19	19/03/19	-	-	-	2.4
10	PM <sub>10</sub>	μg/m³	Every 6 days	5	Various	4/02/19	9.7	16.56	16.4	22.9
	Conductivity	μS/cm	Special				-	-	-	-
11	Total organic carbon	mg/L	Frequency 1*	-	-	-	-	-	-	-
	Conductivity	μS /cm	Special				-	-	-	-
12	Total organic carbon	mg/L	Special Frequency 1*	-	-	-	-	-	-	1
	TSS	mg/L	Conside				-	-	-	-
13	Conductivity	μS/cm	Special Frequency 2**	_	_	_	-	-	-	-
13	Oil & Grease	mg/L	Trequency 2	_	_	_	-	-	-	-
	рН	рН					-	-	-	-



## WHITEHAVEN COAL

**Rocglen Coal Mine- Monthly Monitoring Summary** 

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Samples for the Month	Date(s) Sampled	Date(s) Obtained	Min Value	Mean Value	Median Value	Max or Only Value
	Total organic carbon	mg/L					-	1	-	-
	TSS	mg/L					-	1	-	-
	Conductivity	μS/cm					-	1	-	-
	Oil & Grease	mg/L	Special	_	_	_	-	1	-	-
14	рН	рН	Frequency 2**	_	_	_	-	1	-	-
	Total organic carbon	mg/L	Trequency 2				-	-	-	-
	TSS	mg/L					-	-	-	-
	Conductivity	μS /cm					-	-	-	-
15	Oil & Grease	mg/L	Special	1	_	_	-	-	-	-
15	рН	рН	Frequency 2**	1	_	_	-	-	-	-
	Total organic carbon	mg/L					-	-	-	-

<sup>&</sup>lt;sup>1</sup>result caused by a regional dust event, not mine related.

## **Table 2 - Pollutant Limits Apply**

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Samples for the Month	Date(s) Sampled	Date(s) Obtained	Min Value	Max or Only Value	100%ile Limit	Exceedance (Yes/No)	Comments
	TSS	mg/L	Special				-	-	50	-	
11	Oil & Grease	mg/L	Frequency	-	-	-	-	-	10	-	
	рН	рН	1*				-	-	6.5-8.5	-	
	TSS	mg/L	Special				-	-	50	-	
12	Oil & Grease	mg/L	Frequency	-	-	-	-	-	10	-	
	рН	рН	1*				-	-	6.5-8.5	-	



- \* Special Frequency 1 means the collection of samples as soon as practicable after each discharge commences and in any case not more than 12 hours after each discharge commences.
- \*\* Special Frequency 2 means collection of samples quarterly (in the event of flow during the quarter) at a time when there is flow and as soon as practicable after each wet weather discharge from points 11 and 12 commences and in any case not more than 12 hours after each discharge commences.

Table 3 – Monitoring (Quarterly & Yearly – No Limits apply)

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Samples for the Month	Date Sampled	Date Obtained	Min Value	Mean Value	Median Value	Max Value/Only Value
	Aluminium	mg/L					-	-	-	-
	Arsenic	mg/L					-	-	-	
	Bicarbonate	mg/L	V a a d				-	-	-	-
16	Chloride	mg/L	Yearly	-	-	-	-	-	-	-
	Iron	mg/L					-	-	-	-
	Manganese	mg/L					-	-	-	-
	Sodium	mg/L					-	-	-	-
	Conductivity	μS/cm					-	-	-	-
	Oil & Grease	mg/L					-	-	-	-
16	рН	рН	Quarterly	-	-	-	-	-	-	-
	TOC	mg/L					-	-	-	-
	TSS	mg/L					-	-	-	-

**Table 4 – Monitoring (Noise – Limits Apply)** 

EPL ID	Date	Start Time	Period (mins)	Rocglen Measured Levels – dB(A) Leq 15min Day	Rocglen Measured Levels – dB(A) Leq 15min Evening	Rocglen Measured Levels – dB(A) L <sub>eq 15min Night</sub>	Rocglen Measured Levels – dB(A) L <sub>A 1min Night</sub>	Limits	Wind speed (m/s)	Compliant (Y/N)	Comments
			90							Υ	
			30							Υ	
			60							Υ	
			60							Υ	
			90					35 dB(A) Leq (15 min)		Υ	
			30					Day, Evening, Night		Υ	
N1			60					45dB(A) L <sub>A</sub> (1 min)		Υ	
			60					Night		Y	
			90							Y	
			30							Υ	
			60							Y	
			60							Y	
			90							Y	
			30					35 dB(A) Leq (15 min)		Y	
NO			60					Day, Evening, Night		Y	
N2			60					45dB(A) L <sub>A</sub> (1 min)		Y	
			90					Night		Y	
			30							Y	



EPL ID	Date	Start Time	Period (mins)	Rocglen Measured Levels – dB(A) Leq 15min Day	Rocglen Measured Levels – dB(A) Leq 15min Evening	Rocglen Measured Levels – dB(A) Leq 15min Night	Rocglen Measured Levels – dB(A) La 1min Night	Limits	Wind speed (m/s)	Compliant (Y/N)	Comments
			60								
			60								
			90								
			30								
			60								
			60								

Note: Measured noise levels are not necessarily the result of activity at Rocglen Coal Mine

Table 5 – Monitoring (Blasts – Limits Apply)

EPL ID	Parameter	Units of Measure	Frequency	No. of Blasts for the Month	Average Value	Max or Only Value	100%ile Limit	(Potential) Non-compliance /breach
DD1	Blast Noise	dB (Lin Peak)	Every Blast	2	102.5	105.6	120	No
BB1	Blast Vibration	mm/s	Every Blast	2	0.55	0.79	10	No
DD2	Blast Noise	dB (Lin Peak)	Every Blast	2	103.1	105.5	120	No
BB3	Blast Vibration	mm/s	Every Blast	2	0.45	0.76	10	No





Figure 1 – EPL 12870 Monitoring Locations



#### **Site Information**

**EPL No:** 12870

**EPA Website Link:** <a href="http://epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=40278&SYSUID=1&LICID=12870">http://epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=40278&SYSUID=1&LICID=12870</a>

Licensee: Whitehaven Coal Mining Pty Ltd

Licensee Address: Rocglen Coal Mine, Wean Road, GUNNEDAH NSW 2380

**EPL Monitoring Points:** See Figure 1 below

Sampling Period: April 2019 Obtained Date: 06 May 2019 Publication Date: 20 May 2019

#### **Table 1 - No Pollutant Limits Apply**

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Samples for the Month	Date(s) Sampled	Date(s) Obtained	Min Value	Mean Value	Median Value	Max or Only Value
4	Particulates- Deposited Matter	g/m²/month	Continuous	1	16/04/19	03/04/19	-	-	1	4.7
6	Particulates- Deposited Matter	g/m²/month	Continuous	1	16/04/19	03/04/19	-	-	-	1.5
10	PM <sub>10</sub>	μg/m³	Every 6 days	5	Various	6/04/19	3.1	12.76	15.3	19.9
	Conductivity	μS/cm	Special				-	-	-	1
11	Total organic carbon	mg/L	Frequency 1*	-	-	-	-	-	-	-
	Conductivity	μS /cm	Cassial				-	-	-	-
12	Total organic carbon	mg/L	Special Frequency 1*	-	-	-	-	-	-	1
	TSS	mg/L	C				-	-	-	-
13	Conductivity	μS/cm	Special Frequency 2**				-	-	-	-
13	Oil & Grease	mg/L	Trequency 2	_	_	_	-	-	-	-
	рН	рН					-	-	-	-



# WHITEHAVEN COAL

**Rocglen Coal Mine- Monthly Monitoring Summary** 

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Samples for the Month	Date(s) Sampled	Date(s) Obtained	Min Value	Mean Value	Median Value	Max or Only Value
	Total organic carbon	mg/L					-	-	-	-
	TSS	mg/L					-	-	-	-
	Conductivity	μS/cm					-	-	-	-
	Oil & Grease	mg/L	Special	_	_	_	-	-	-	-
14	рН	рН	Frequency 2**	_	_	_	-	-	-	-
	Total organic carbon	mg/L	Trequency 2				-	-	-	-
	TSS	mg/L					-	-	-	-
	Conductivity	μS /cm					-	-	-	-
15	Oil & Grease	mg/L	Special	_	_	_	-	-	-	-
13	рН	рН	Frequency 2**	_	-	_	-	-	-	-
	Total organic carbon	mg/L					-	-	-	-

<sup>&</sup>lt;sup>1</sup>result caused by a regional dust event, not mine related.

## **Table 2 - Pollutant Limits Apply**

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Samples for the Month	Date(s) Sampled	Date(s) Obtained	Min Value	Max or Only Value	100%ile Limit	Exceedance (Yes/No)	Comments
	TSS	mg/L	Special				-	-	50	-	
11	Oil & Grease	mg/L	Frequency	-	-	-	-	-	10	-	
	рН	рН	1*				-	-	6.5-8.5	-	
	TSS	mg/L	Special				-	-	50	-	
12	Oil & Grease	mg/L	Frequency	-	-	-	-	-	10	-	
	рН	рН	1*				-	-	6.5-8.5	-	



- \* Special Frequency 1 means the collection of samples as soon as practicable after each discharge commences and in any case not more than 12 hours after each discharge commences.
- \*\* Special Frequency 2 means collection of samples quarterly (in the event of flow during the quarter) at a time when there is flow and as soon as practicable after each wet weather discharge from points 11 and 12 commences and in any case not more than 12 hours after each discharge commences.

Table 3 – Monitoring (Quarterly & Yearly – No Limits apply)

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Samples for the Month	Date Sampled	Date Obtained	Min Value	Mean Value	Median Value	Max Value/Only Value
	Aluminium	mg/L					ı	1	-	-
	Arsenic	mg/L					-	ı	-	-
	Bicarbonate	mg/L	Va a ale c				-	-	-	-
16	Chloride	mg/L	Yearly	-	-	-	-	-	-	-
	Iron	mg/L					1	1	-	-
	Manganese	mg/L					-	-	-	-
	Sodium	mg/L					-	-	-	-
	Conductivity	μS/cm					-	-	-	-
	Oil & Grease	mg/L					-	-	-	-
16	рН	рН	Quarterly	-	-	-	-	-	-	-
	TOC	mg/L					-	-	-	-
	TSS	mg/L					-	-	-	-

**Table 4 – Monitoring (Noise – Limits Apply)** 

EPL ID	Date	Start Time	Period (mins)	Rocglen Measured Levels – dB(A) Leq 15min Day	Rocglen Measured Levels – dB(A) Leq 15min Evening	Rocglen Measured Levels – dB(A) L <sub>eq 15min Night</sub>	Rocglen Measured Levels – dB(A) L <sub>A 1min Night</sub>	Limits	Wind speed (m/s)	Compliant (Y/N)	Comments
			90							Υ	
			30							Υ	
			60							Y	
			60							Y	
			90					35 dB(A) Leq (15 min)		Υ	
N/a			30					Day, Evening, Night		Υ	
N1			60					45dB(A) L <sub>A</sub> (1 min)		Υ	
			60					Night		Υ	
			90							Υ	
			30							Υ	
			60							Υ	
			60							Υ	
			90							Υ	
			30					35 dB(A) Leq (15 min)		Υ	
N2			60					Day, Evening, Night		Υ	
INZ			60					45dB(A) L <sub>A</sub> (1 min)		Υ	
		<u> </u>	90					Night		Υ	
			30							Υ	



EPL ID	Date	Start Time	Period (mins)	Rocglen Measured Levels – dB(A) Leq 15min Day	Rocglen Measured Levels – dB(A) Leq 15min Evening	Rocglen Measured Levels – dB(A) L <sub>eq 15min Night</sub>	Rocglen Measured Levels – dB(A) La 1min Night	Limits	Wind speed (m/s)	Compliant (Y/N)	Comments
			60								
			60								
			90								
			30								
			60								
			60								

Note: Measured noise levels are not necessarily the result of activity at Rocglen Coal Mine

## Table 5 – Monitoring (Blasts – Limits Apply)

EPL ID	Parameter	Units of Measure	Frequency	No. of Blasts for the Month	Average Value	Max or Only Value	100%ile Limit	(Potential) Non-compliance /breach
DD1	Blast Noise	dB (Lin Peak)	Every Blast	1		104.3	120	No
BB1	Blast Vibration	mm/s	Every Blast	1		0.22	10	No
002	Blast Noise	dB (Lin Peak)	Every Blast	1		97.8	120	No
BB3 B	Blast Vibration	mm/s	Every Blast	1		0.4	10	No





Figure 1 – EPL 12870 Monitoring Locations



#### **Site Information**

**EPL No:** 12870

**EPA Website Link:** http://epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=40278&SYSUID=1&LICID=12870

Licensee: Whitehaven Coal Mining Pty Ltd

Licensee Address: Rocglen Coal Mine, Wean Road, GUNNEDAH NSW 2380

**EPL Monitoring Points:** See Figure 1 below

Sampling Period: May 2019 Obtained Date: 07 June 2019 Publication Date: 14 June 2019

#### **Table 1 - No Pollutant Limits Apply**

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Samples for the Month	Date(s) Sampled	Date(s) Obtained	Min Value	Mean Value	Median Value	Max or Only Value
4	Particulates- Deposited Matter	g/m²/month	Continuous	1	17/05/19	31/05/19	-	-	-	7.4
6	Particulates- Deposited Matter	g/m <sup>2</sup> /month	Continuous	1	17/05/19	31/05/19	-	-	-	2.0
10	PM <sub>10</sub>	μg/m³	Every 6 days	5	Various	6/05/19	9.0	12.18	12.7	15.4
	Conductivity	μS/cm	Special				-	-	-	-
11	Total organic carbon	mg/L	Frequency 1*	-	-	-	-	-	-	-
	Conductivity	μS /cm	Cassial				-	-	-	-
12	Total organic carbon	mg/L	Special Frequency 1*	-	-	-	-	-	-	-
	TSS	mg/L	Consider				-	-	-	-
13	Conductivity	μS/cm	Special Frequency 2**		_	_	-	-	-	-
13	Oil & Grease	mg/L	Trequency 2	-	-	_	-	-	-	1
	рН	рН					-	-	-	-



# WHITEHAVEN COAL

**Rocglen Coal Mine- Monthly Monitoring Summary** 

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Samples for the Month	Date(s) Sampled	Date(s) Obtained	Min Value	Mean Value	Median Value	Max or Only Value
	Total organic carbon	mg/L					-	-	-	-
	TSS	mg/L					-	1	-	-
	Conductivity	μS/cm					-	-	-	-
	Oil & Grease	mg/L	Special	_	_	_	-	1	-	-
14	рН	рН	Frequency 2**	_	_	_	-	1	-	-
	Total organic carbon	mg/L	Trequency 2				-	-	-	-
	TSS	mg/L					-	-	-	-
	Conductivity	μS /cm					-	-	-	-
15	Oil & Grease	mg/L	Special				-	-	-	-
13	рН	<u> </u>	Frequency 2**	_	-	_	-	-	-	-
	-						-	-	-	-

<sup>&</sup>lt;sup>1</sup>result caused by a regional dust event, not mine related.

## **Table 2 - Pollutant Limits Apply**

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Samples for the Month	Date(s) Sampled	Date(s) Obtained	Min Value	Max or Only Value	100%ile Limit	Exceedance (Yes/No)	Comments
	TSS	mg/L	Special				-	-	50	-	
11	Oil & Grease	mg/L	Frequency	-	-	-	-	-	10	-	
	рН	рН	1*				-	-	6.5-8.5	-	
	TSS	mg/L	Special				-	-	50	-	
12	Oil & Grease	mg/L	Frequency	-	-	-	-	-	10	-	
	рН	рН	1*				-	-	6.5-8.5	-	



- \* Special Frequency 1 means the collection of samples as soon as practicable after each discharge commences and in any case not more than 12 hours after each discharge commences.
- \*\* Special Frequency 2 means collection of samples quarterly (in the event of flow during the quarter) at a time when there is flow and as soon as practicable after each wet weather discharge from points 11 and 12 commences and in any case not more than 12 hours after each discharge commences.

Table 3 – Monitoring (Quarterly & Yearly – No Limits apply)

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Samples for the Month	Date Sampled	Date Obtained	Min Value	Mean Value	Median Value	Max Value/Only Value
	Aluminium	mg/L					-	-	-	0.19
	Arsenic	mg/L					1	ı	-	0.013
	Bicarbonate	mg/L	Vocale				-	-	-	187
16	Chloride	mg/L	Yearly	1	-	07/06/2019	Not available at time of publication			
	Iron	mg/L					-	-	-	0.11
	Manganese	mg/L					-	-	-	0.003
	Sodium	mg/L					-	-	-	355
	Conductivity	μS/cm					-	-	-	1640
	Oil & Grease	mg/L					-	-	-	<5
16	рН	рН	Quarterly	_	-	-	-	-	-	8.9
	TOC	mg/L	,				-	-	-	4
	TSS	mg/L					-	-	-	20

**Table 4 – Monitoring (Noise – Limits Apply)** 

EPL ID	Date	Start Time	Period (mins)	Rocglen Measured Levels – dB(A) L <sub>eq 15min Day</sub>	Rocglen Measured Levels – dB(A) L <sub>eq 15min Evening</sub>	Rocglen Measured Levels – dB(A) L <sub>eq 15min Night</sub>	Rocglen Measured Levels – dB(A) L <sub>A 1min Night</sub>	Limits	Wind speed (m/s)	Compliant (Y/N)	Comments
			90							Υ	
			30							Υ	
			60							Υ	
			60							Y	
			90					35 dB(A) Leq (15 min)		Υ	
			30					Day, Evening, Night		Υ	
N1			60					45dB(A) L <sub>A</sub> (1 min)		Υ	
			60					Night		Y	
			90							Y	Noise results not available at time of publication,
			30							Υ	will be included in the June report.
			60							Y	
			60							Y	
			90							Y	
			30					35 dB(A) Leq (15 min)		Y	
			60					Day, Evening, Night		Υ	
N2			60					45dB(A) L <sub>A</sub> (1 min)		Y	
			90					Night		Y	
			30							Y	



EPL ID	Date	Start Time	Period (mins)	Rocglen Measured Levels – dB(A) Leq 15min Day	Rocglen Measured Levels – dB(A) Leq 15min Evening	Rocglen Measured Levels – dB(A) Leq 15min Night	Rocglen Measured Levels – dB(A) La 1min Night	Limits	Wind speed (m/s)	Compliant (Y/N)	Comments
			60								
			60								
			90								
			30								
			60								
			60								

Note: Measured noise levels are not necessarily the result of activity at Rocglen Coal Mine

Table 5 – Monitoring (Blasts – Limits Apply)

EPL ID	Parameter	Units of Measure	Frequency	No. of Blasts for the Month	Average Value	Max or Only Value	100%ile Limit	(Potential) Non-compliance /breach
DD1	Blast Noise	dB (Lin Peak)	Every Blast	1		103.7	120	No
BB1	Blast Vibration	mm/s	Every Blast	1		0.25	10	No
DDS	Blast Noise	dB (Lin Peak)	Every Blast	1		102.3	120	No
BB3	Blast Vibration	mm/s	Every Blast	1		1.03	10	No





Figure 1 – EPL 12870 Monitoring Locations



#### **Site Information**

**EPL No:** 12870

**EPA Website Link:** <a href="http://epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=40278&SYSUID=1&LICID=12870">http://epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=40278&SYSUID=1&LICID=12870</a>

Licensee: Whitehaven Coal Mining Pty Ltd

Licensee Address: Rocglen Coal Mine, Wean Road, GUNNEDAH NSW 2380

**EPL Monitoring Points:** See Figure 1 below

Sampling Period: June 2019 Obtained Date: 07 July 2019 Publication Date: 14 July 2019

#### **Table 1 - No Pollutant Limits Apply**

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Samples for the Month	Date(s) Sampled	Date(s) Obtained	Min Value	Mean Value	Median Value	Max or Only Value
4	Particulates- Deposited Matter	g/m²/month	Continuous	1	17/06/19	7/07/19	-	-	-	5.3
6	Particulates- Deposited Matter	g/m²/month	Continuous	1	77/06/19	7/07/19	-	-	-	1.5
10	PM <sub>10</sub>	μg/m³	Every 6 days	4	Various	08/07/19	17.7	23.78	21.3	35.2
	Conductivity	μS/cm	Special				-	-	-	-
11	Total organic carbon	mg/L	Frequency 1*	-	-	-	-	-	-	-
	Conductivity	μS /cm	Cassial				-	-	-	-
12	Total organic carbon	mg/L	Special Frequency 1*	-	-	-	-	-	-	-
	TSS	mg/L	Conside				-	-	-	1
13	Conductivity	μS/cm	Special Frequency 2**	_	_	_	-	-	-	-
12	Oil & Grease	mg/L	rrequericy 2	_	-	_	-	-	-	1
	рН	рН					-	-	-	-



## WHITEHAVEN COAL

**Rocglen Coal Mine- Monthly Monitoring Summary** 

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Samples for the Month	Date(s) Sampled	Date(s) Obtained	Min Value	Mean Value	Median Value	Max or Only Value
	Total organic carbon	mg/L					-	-	-	-
	TSS	mg/L					-	-	-	1
	Conductivity	μS/cm					-	-	-	-
	Oil & Grease	mg/L	Special	_			-	-	-	-
14	рН	рН	Frequency 2**	_	-	_	-	-	-	-
	Total organic carbon	mg/L	Trequency 2				-	-	-	-
	TSS	mg/L					-	-	-	-
	Conductivity	μS /cm					-	-	-	-
15	Oil & Grease	mg/L	Special	_			-	-	-	-
13	рН	рН рН	Frequency 2**	_	-	-	-	-	-	-
	Total organic carbon	mg/L					-	-	-	-

<sup>&</sup>lt;sup>1</sup>result caused by a regional dust event, not mine related.

## **Table 2 - Pollutant Limits Apply**

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Samples for the Month	Date(s) Sampled	Date(s) Obtained	Min Value	Max or Only Value	100%ile Limit	Exceedance (Yes/No)	Comments
	TSS	mg/L	Special				-	-	50	-	
11	Oil & Grease	mg/L	Frequency	-	-	-	-	-	10	-	
	рН	рН	1*				-	-	6.5-8.5	-	
	TSS	mg/L	Special				-	-	50	-	
12	Oil & Grease	mg/L	Frequency	-	-	-	-	-	10	-	
	рН	рН	1*				-	-	6.5-8.5	-	



- \* Special Frequency 1 means the collection of samples as soon as practicable after each discharge commences and in any case not more than 12 hours after each discharge commences.
- \*\* Special Frequency 2 means collection of samples quarterly (in the event of flow during the quarter) at a time when there is flow and as soon as practicable after each wet weather discharge from points 11 and 12 commences and in any case not more than 12 hours after each discharge commences.

Table 3 – Monitoring (Quarterly & Yearly – No Limits apply)

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Samples for the Month	Date Sampled	Date Obtained	Min Value	Mean Value	Median Value	Max Value/Only Value
16	Aluminium	mg/L	Yearly	1	-	24/06/2019	-	-	-	0.001
	Arsenic	mg/L					-	-	-	0.001
	Bicarbonate	mg/L					-	-	-	
	Chloride	mg/L					-	-	-	
	Iron	mg/L					-	-	-	
	Manganese	mg/L					-	-	-	
	Sodium	mg/L					-	-	-	
	Conductivity	μS/cm		-	-	-	-	-	-	60
16	Oil & Grease	mg/L	Quarterly				-	-	-	<5
	рН	рН					-	-	-	7.34
	TOC	mg/L					-	-	-	8
	TSS	mg/L					-	-	-	13

**Table 4 – Monitoring (Noise – Limits Apply)** 

EPL ID	Date	Start Time	Period (mins)	Rocglen Measured Levels – dB(A) Leq 15min Day	Rocglen Measured Levels – dB(A) Leq 15min Evening	Rocglen Measured Levels – dB(A) L <sub>eq 15min Night</sub>	Rocglen Measured Levels – dB(A) L <sub>A 1min Night</sub>	Limits	Wind speed (m/s)	Compliant (Y/N)	Comments
	15/05/2019	13:40	90	I/A					2.6 m/s SE	Υ	
		21:04	30		N/M				4.7 m/s	Υ	
	13/03/2019	23:16	60			I/A			0.8 m/s ENE	Υ	
		23:16	60				I/A		0.8 m/s ENE	Υ	
	15/05/2019	12:48	90	I/A				35 dB(A) Leq (15 min)	0.9 m/s SE	Υ	
		21:18	30		I/A			Day, Evening, Night	2 m/s NE	Υ	
N1		22:01	60			I/A		45dB(A) L <sub>A</sub> (1 min)	1.6 m/s NE	Υ	
	15/05/2019	22:01	60				I/A	Night	1.6 m/s NE	Y	
		11:17	90	28					1.4 m/s SE	Υ	Noise results not available at time of publication,
		20:54	30		N/M				1.9 m/s SE	Y	will be included in the June report.
		00:01	60			N/M			0.5 m/s NE	Υ	
		00:01	60				I/A		0.5 m/s NE	Y	
	15/05/2019	11:45	90	I/A				35 dB(A) Leq (15 min)	1.9 m/s SE	Υ	
		20:17	30		I/A			Day, Evening, Night	2.6 m./s ESE	Υ	
NO		22:00	60			I/A		45dB(A) L <sub>A</sub> (1 min)	3.2 m/s E	Y	
N2		22:00	60				I/A	Night	3.2 m/s E	Y	
	15/05/2019	11:01	90	I/A					1.4 m/s SE	Υ	
		20:30	30		N/M				2.4 m/s NE	Y	



EPL ID	Date	Start Time	Period (mins)	Rocglen Measured Levels – dB(A) Leq 15min Day	Rocglen Measured Levels – dB(A) Leq 15min Evening	Rocglen Measured Levels – dB(A) L <sub>eq 15min Night</sub>	Rocglen Measured Levels – dB(A) La 1min Night	Limits	Wind speed (m/s)	Compliant (Y/N)	Comments
		23:28	60			30			1.6 m/s E	Y	
		23:28	60				N/M	35 dB(A) Leq (15 min)	1.6 m/s E	Υ	
	15/05/2019	09:27	90	I/A				Day, Evening, Night	1.4 m/s SE	Υ	
		20:07	30		I/A			45dB(A) L <sub>A</sub> (1 min)	1.2 m/s NE	Υ	
		22:41	60			I/A		Night	1.8 m/s SE	Υ	
		22:41	60				I/A		1.8 m/s SE	Υ	

Note: Measured noise levels are not necessarily the result of activity at Rocglen Coal Mine

Table 5 – Monitoring (Blasts – Limits Apply)

EPL ID	Parameter	Units of Measure	Frequency	No. of Blasts for the Month	Average Value	Max or Only Value	100%ile Limit	(Potential) Non-compliance /breach
DD1	Blast Noise	dB (Lin Peak)	Every Blast	1		95.6	120	No
BB1	Blast Vibration	mm/s	Every Blast	1		0.2	10	No
BB3	Blast Noise	dB (Lin Peak)	Every Blast	1		100.8	120	No
	Blast Vibration	mm/s	Every Blast	1		0.04	10	No





Figure 1 – EPL 12870 Monitoring Locations



#### **Site Information**

**EPL No:** 12870

**EPA Website Link:** <a href="http://epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=40278&SYSUID=1&LICID=12870">http://epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=40278&SYSUID=1&LICID=12870</a>

Licensee: Whitehaven Coal Mining Pty Ltd

Licensee Address: Rocglen Coal Mine, Wean Road, GUNNEDAH NSW 2380

**EPL Monitoring Points:** See Figure 1 below

Sampling Period: July 2019
Obtained Date: 13 August 2019
Publication Date: 13 August 2019

#### **Table 1 - No Pollutant Limits Apply**

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Samples for the Month	Date(s) Sampled	Date(s) Obtained	Min Value	Mean Value	Median Value	Max or Only Value
4	Particulates- Deposited Matter	g/m²/month	Continuous	1	17/07/19	29/07/19	-	-	-	5.5
6	Particulates- Deposited Matter	g/m²/month	Continuous	1	17/07/19	29/07/19	-	-	-	1.3
10	PM <sub>10</sub>	μg/m³	Every 6 days	4	Various	13/08/19	9.0	13.5	12.25	20.1
	Conductivity	μS/cm	Special				-	-	-	-
11	Total organic carbon	mg/L	Frequency 1*	-	-	-	-	-	-	-
	Conductivity	μS /cm	Special				-	-	-	1
12	Total organic carbon	mg/L	Special Frequency 1*	-	-	-	-	-	-	1
	TSS	mg/L	Consist				-	-	-	1
13	Conductivity	μS/cm	Special Frequency 2**		_	_	-	-	-	-
13	Oil & Grease	mg/L	Trequency 2	_	_	_	-	-	-	-
	рН	рН					-	-	-	-



# WHITEHAVEN COAL

**Rocglen Coal Mine- Monthly Monitoring Summary** 

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Samples for the Month	Date(s) Sampled	Date(s) Obtained	Min Value	Mean Value	Median Value	Max or Only Value
	Total organic carbon	mg/L					-	-	-	-
	TSS	mg/L					-	-	-	1
	Conductivity	μS/cm					-	-	-	-
	Oil & Grease	mg/L	Special	_			-	-	-	-
14	рН	рН	Frequency 2**	_	-	_	-	-	-	-
	Total organic carbon	mg/L	Trequency 2				-	-	-	-
	TSS	mg/L					-	-	-	-
	Conductivity	μS /cm					-	-	-	-
15	Oil & Grease	mg/L	Special Frequency 2**	_		_	-	-	-	-
13	рН	рН		_	_	_	-	-	-	-
	Total organic carbon	mg/L					-	-	-	-

<sup>&</sup>lt;sup>1</sup>result caused by a regional dust event, not mine related.

# **Table 2 - Pollutant Limits Apply**

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Samples for the Month	Date(s) Sampled	Date(s) Obtained	Min Value	Max or Only Value	100%ile Limit	Exceedance (Yes/No)	Comments
	TSS	mg/L	Special				-	-	50	-	
11	Oil & Grease	mg/L	Frequency	-	-	-	-	-	10	-	
	рН	рН	1*				-	-	6.5-8.5	-	
	TSS	mg/L	Special				-	-	50	-	
12	Oil & Grease	mg/L	Frequency	-	-	-	-	-	10	-	
	рН	рН	1*				-	-	6.5-8.5	-	



- \* Special Frequency 1 means the collection of samples as soon as practicable after each discharge commences and in any case not more than 12 hours after each discharge commences.
- \*\* Special Frequency 2 means collection of samples quarterly (in the event of flow during the quarter) at a time when there is flow and as soon as practicable after each wet weather discharge from points 11 and 12 commences and in any case not more than 12 hours after each discharge commences.

Table 3 – Monitoring (Quarterly & Yearly – No Limits apply)

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Samples for the Month	Date Sampled	Date Obtained	Min Value	Mean Value	Median Value	Max Value/Only Value
	Aluminium	mg/L					-	-	-	
	Arsenic	mg/L					-	1	-	
	Bicarbonate	mg/L	Va a ale c				-	-	-	
16	Chloride	mg/L	Yearly	-	-	-	-	-	-	
	Iron	mg/L					-	-	-	
	Manganese	mg/L					-	1	-	
	Sodium	mg/L					-	1	-	
	Conductivity	μS/cm					-	-	-	
	Oil & Grease	mg/L					-	-	-	
16	рН	рН	Quarterly	-	-	-	-	-	-	
	TOC	mg/L					-	-	-	
	TSS	mg/L					-	-	-	



## **Table 4 – Monitoring (Noise – Limits Apply)**

EPL ID	Date	Start Time	Period (mins)	Rocglen Measured Levels – dB(A) Leq 15min Day	Rocglen Measured Levels – dB(A) Leq 15min Evening	Rocglen Measured Levels – dB(A) Leq 15min Night	Rocglen Measured Levels – dB(A) L <sub>A 1min Night</sub>	Limits	Wind speed (m/s)	Compliant (Y/N)	Comments
				, ,							
								35 dB(A) Leq (15 min) Day, Evening, Night			
N1											
								45dB(A) L₄ (1 min) Night			
											Noise results not available at time of publication,
											will be included in the June report.
								35 dB(A) Leq (15 min)			
								Day, Evening, Night			
N2								45dB(A) L <sub>A</sub> (1 min)			
								Night			



EPL ID	Date	Start Time	Period (mins)	Rocglen Measured Levels – dB(A) Leq 15min Day	Rocglen Measured Levels – dB(A) Leq 15min Evening	Rocglen Measured Levels – dB(A) Leq 15min Night	Rocglen Measured Levels – dB(A) La 1min Night	Limits	Wind speed (m/s)	Compliant (Y/N)	Comments
								35 dB(A) Leq (15 min)			
								Day, Evening, Night $45$ dB(A) $L_A$ (1 min) $N$ ight			
								MIBIIL			

Note: Measured noise levels are not necessarily the result of activity at Rocglen Coal Mine





Figure 1 – EPL 12870 Monitoring Locations



#### **Site Information**

**EPL No:** 12870

**EPA Website Link:** <a href="http://epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=40278&SYSUID=1&LICID=12870">http://epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=40278&SYSUID=1&LICID=12870</a>

Licensee: Whitehaven Coal Mining Pty Ltd

Licensee Address: Rocglen Coal Mine, Wean Road, GUNNEDAH NSW 2380

**EPL Monitoring Points:** See Figure 1 below

Sampling Period: August 2019
Obtained Date: 17 September 2019
Publication Date: 19 September 2019

#### **Table 1 - No Pollutant Limits Apply**

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Samples for the Month	Date(s) Sampled	Date(s) Obtained	Min Value	Mean Value	Median Value	Max or Only Value
4	Particulates- Deposited Matter	g/m²/month	Continuous	1	15/08/19	16/09/19	-	-	-	2.2
6	Particulates- Deposited Matter	g/m²/month	Continuous	1	15/08/19	16/09/19	-	-	-	1.4
10	PM <sub>10</sub>	μg/m³	Every 6 days	5	Various	13/09/19	4	20.8	25.3	37.2
	Conductivity	μS/cm	Special				-	-	-	-
11	Total organic carbon	mg/L	Frequency 1*	-	-	-	-	-	-	-
	Conductivity	μS /cm	Special				-	-	-	1
12	Total organic carbon	mg/L	Special Frequency 1*	-	-	-	-	-	-	1
	TSS	mg/L	Conside				-	-	-	-
13	Conductivity	μS/cm	Special Frequency 2**	_		_	-	-	-	-
12	Oil & Grease	mg/L	rrequericy 2	_	-	_	-	-	-	1
	рН	рН					-	-	-	-



# WHITEHAVEN COAL

**Rocglen Coal Mine- Monthly Monitoring Summary** 

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Samples for the Month	Date(s) Sampled	Date(s) Obtained	Min Value	Mean Value	Median Value	Max or Only Value
	Total organic carbon	mg/L					-	-	-	-
	TSS	mg/L					1	-	-	-
	Conductivity	μS/cm					-	-	-	-
	Oil & Grease	mg/L	Special	_	_	_	1	-	-	-
14	рН	рН	Frequency 2**	_	_	_	-	-	-	-
	Total organic carbon	mg/L	Trequency 2				-	-	-	-
	TSS	mg/L					-	-	-	-
	Conductivity	μS /cm					-	-	-	-
15	Oil & Grease	mg/L	Special Frequency 2**	_	_	_	-	-	-	-
13	рН	рН		_	-	_	-	-	-	-
	Total organic carbon	mg/L					-	-	-	-

<sup>&</sup>lt;sup>1</sup>result caused by a regional dust event, not mine related.

# **Table 2 - Pollutant Limits Apply**

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Samples for the Month	Date(s) Sampled	Date(s) Obtained	Min Value	Max or Only Value	100%ile Limit	Exceedance (Yes/No)	Comments
	TSS	mg/L	Special				-	-	50	-	
11	Oil & Grease	mg/L	Frequency	-	-	-	-	-	10	-	
	рН	рН	1*				-	-	6.5-8.5	-	
	TSS	mg/L	Special				-	-	50	-	
12	Oil & Grease	mg/L	Frequency	-	-	-	-	-	10	-	
	рН	рН	1*				-	-	6.5-8.5	-	



- \* Special Frequency 1 means the collection of samples as soon as practicable after each discharge commences and in any case not more than 12 hours after each discharge commences.
- \*\* Special Frequency 2 means collection of samples quarterly (in the event of flow during the quarter) at a time when there is flow and as soon as practicable after each wet weather discharge from points 11 and 12 commences and in any case not more than 12 hours after each discharge commences.

Table 3 – Monitoring (Quarterly & Yearly – No Limits apply)

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Samples for the Month	Date Sampled	Date Obtained	Min Value	Mean Value	Median Value	Max Value/Only Value
	Aluminium	mg/L					-	-	-	
	Arsenic	mg/L					-	-	-	
	Bicarbonate	mg/L	Va a ulc.				-	-	-	
16	Chloride	mg/L	Yearly	-	-	-	-	-	-	
	Iron	mg/L					-	-	-	
	Manganese	mg/L					-	-	-	
	Sodium	mg/L					-	-	-	
	Conductivity	μS/cm					-	-	-	1540
	Oil & Grease	mg/L					-	-	-	<5
16	рН	рН	Quarterly	1	20/08/2019	28/08/2019	-	-	-	8.61
	TOC	mg/L					-	-	-	4
	TSS	mg/L	]				-	-	-	7



## **Table 4 – Monitoring (Noise – Limits Apply)**

EPL ID	Date	Start Time	Period (mins)	Rocglen Measured Levels – dB(A) L <sub>eq 15min Day</sub>	Rocglen Measured Levels – dB(A) Leq 15min Evening	Rocglen Measured Levels – dB(A) L <sub>eq 15min Night</sub>	Rocglen Measured Levels – dB(A) La 1min Night	Limits	Wind speed (m/s)	Compliant (Y/N)	Comments
N1								35 dB(A) Leq (15 min) Day, Evening, Night 45dB(A) L <sub>A</sub> (1 min) Night			
											Noise results not available at time of publication, will be included in the June report.
N2								35 dB(A) Leq (15 min) Day, Evening, Night 45dB(A) L <sub>A</sub> (1 min)			
								Night			



EPL ID	Date	Start Time	Period (mins)	Rocglen Measured Levels – dB(A) Leq 15min Day	Rocglen Measured Levels – dB(A) Leq 15min Evening	Rocglen Measured Levels – dB(A) L <sub>eq 15min Night</sub>	Rocglen Measured Levels – dB(A) La 1min Night	Limits	Wind speed (m/s)	Compliant (Y/N)	Comments
								35 dB(A) Leq (15 min)			
								Day, Evening, Night $45dB(A) L_A (1 min)$			
								Night			

Note: Measured noise levels are not necessarily the result of activity at Rocglen Coal Mine





Figure 1 – EPL 12870 Monitoring Locations



#### **Site Information**

**EPL No:** 12870

**EPA Website Link:** <a href="http://epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=40278&SYSUID=1&LICID=12870">http://epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=40278&SYSUID=1&LICID=12870</a>

Licensee: Whitehaven Coal Mining Pty Ltd

Licensee Address: Rocglen Coal Mine, Wean Road, GUNNEDAH NSW 2380

**EPL Monitoring Points:** See Figure 1 below

Sampling Period: September 2019
Obtained Date: 17 October 2019
Publication Date: 21 October 2019

#### **Table 1 - No Pollutant Limits Apply**

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Samples for the Month	Date(s) Sampled	Date(s) Obtained	Min Value	Mean Value	Median Value	Max or Only Value
4	Particulates- Deposited Matter	g/m²/month	Continuous	1	16/09/19	4/10/19	-	-	-	1.7
6	Particulates- Deposited Matter	g/m²/month	Continuous	1	16/09/19	4/10/19	-	-	-	0.9
10	PM <sub>10</sub>	μg/m³	Every 6 days	5	Various	14/10/19	43.2	131.4	34.9	377.4
	Conductivity	μS/cm	Special				-	-	-	1
11	Total organic carbon	mg/L	Frequency 1*	-	-	-	-	-	-	-
	Conductivity	μS /cm	Special				-	-	-	-
12	Total organic carbon	mg/L	Special Frequency 1*	-	-	-	-	-	-	1
	TSS	mg/L	Conside				-	-	-	-
13	Conductivity	μS/cm	Special Frequency 2**	_		_	-	-	-	-
12	Oil & Grease	mg/L	rrequericy 2	_	-	_	-	-	-	-
	рН	рН					-	-	-	-



# WHITEHAVEN COAL

**Rocglen Coal Mine- Monthly Monitoring Summary** 

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Samples for the Month	Date(s) Sampled	Date(s) Obtained	Min Value	Mean Value	Median Value	Max or Only Value
	Total organic carbon	mg/L					-	-	-	-
	TSS	mg/L					1	-	-	-
	Conductivity	μS/cm					-	-	-	-
	Oil & Grease	mg/L	Special	_	_	_	1	-	-	-
14	рН	рН	Frequency 2**	_	_	_	1	-	-	-
	Total organic carbon	mg/L	Trequency 2				-	-	-	-
	TSS	mg/L					-	-	-	-
	Conductivity	μS /cm					-	-	-	-
15	Oil & Grease	mg/L	Special	_	_	_	-	-	-	-
13	рН	рН	Frequency 2**	_	-	_	-	-	-	-
	Total organic carbon	mg/L					-	-	-	-

<sup>&</sup>lt;sup>1</sup>result caused by a regional dust event, not mine related.

# **Table 2 - Pollutant Limits Apply**

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Samples for the Month	Date(s) Sampled	Date(s) Obtained	Min Value	Max or Only Value	100%ile Limit	Exceedance (Yes/No)	Comments
	TSS	mg/L	Special				-	-	50	-	
11	Oil & Grease	mg/L	Frequency	-	-	-	-	-	10	-	
	рН	рН	1*				-	-	6.5-8.5	-	
	TSS	mg/L	Special				-	-	50	-	
12	Oil & Grease	mg/L	Frequency	-	-	-	-	-	10	-	
	рН	рН	1*				-	-	6.5-8.5	-	



- \* Special Frequency 1 means the collection of samples as soon as practicable after each discharge commences and in any case not more than 12 hours after each discharge commences.
- \*\* Special Frequency 2 means collection of samples quarterly (in the event of flow during the quarter) at a time when there is flow and as soon as practicable after each wet weather discharge from points 11 and 12 commences and in any case not more than 12 hours after each discharge commences.

Table 3 – Monitoring (Quarterly & Yearly – No Limits apply)

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Samples for the Month	Date Sampled	Date Obtained	Min Value	Mean Value	Median Value	Max Value/Only Value
	Aluminium	mg/L					-	-	-	
	Arsenic	mg/L					-	-	-	
	Bicarbonate	mg/L	Va a ulc.				-	-	-	
16	Chloride	mg/L	Yearly	-	-	-	-	-	-	
	Iron	mg/L					-	-	-	
	Manganese	mg/L					-	-	-	
	Sodium	mg/L					-	-	-	
	Conductivity	μS/cm					-	-	-	
	Oil & Grease	mg/L					-	-	-	
16	рН	рН	Quarterly	y	-	-	-	-	-	
	TOC	mg/L					-	-	-	
	TSS	mg/L					-	-	-	



# Rocglen Coal Mine- Monthly Monitoring Summary Table 4 – Monitoring (Noise – Limits Apply)

Note: Measured noise levels are not necessarily the result of activity at Rocglen Coal Mine

EPL ID	Date	Start Time	Period (mins)	Rocglen Measured Levels – dB(A) Leq 15min Day	Rocglen Measured Levels – dB(A) Leq 15min Evening	Rocglen Measured Levels – dB(A) Leq 15min Night	Rocglen Measured Levels – dB(A) L <sub>A 1min Night</sub>	Limits	Wind speed (m/s)	Compliant (Y/N)	Comments
		20:37	15	IA						у	
	16/09/2019	23:30	15		IA					у	
	10/03/2013	00:02	15			IA				У	
		00:02	15				IA			У	
	17/09/2019	20:20	15	IA				35 dB(A) Leq (15 min)		У	
		23:27	15		IA			Day, Evening, Night		у	
N1		00:00	15			IA		45dB(A) L <sub>A</sub> (1 min)		У	
		00:00	15				IA	Night		У	
	18/09/2019	11:41	15	<20						у	
		21:01	15		<24					у	
		23:48	15			IA				у	
		23:48	15				IA			у	Noise results not available at time of publication,
		16:30	15	<23						у	will be included in the June report.
	16/09/2019	17:05	15		<14			35 dB(A) Leq (15 min) Day, Evening, Night		у	
	16/09/2019	21:50	15			IA				у	
		22:43	15				IA	45dB(A) L <sub>A</sub> (1 min) Night		У	
	17/09/2019	10:33	15	<28				Night		у	
N2		21:06	15		<11					у	
INZ		22:06	15			IA				у	
		22:06	15				IA			у	
	18/09/2019	21:31	15	<11				35 dB(A) Leq (15 min) Day, Evening, Night		у	
		22:18	15		<13					у	
		22:35	15			IA		45dB(A) L <sub>A</sub> (1 min) Night		у	
		22:50	15				IA	Trigit.		у	

Rocglen Coal Mine- Monthly Monitoring Summary Figure 1 – EPL 12870 Monitoring Locations





#### **Site Information**

**EPL No:** 12870

**EPA Website Link:** <a href="http://epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=40278&SYSUID=1&LICID=12870">http://epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=40278&SYSUID=1&LICID=12870</a>

Licensee: Whitehaven Coal Mining Pty Ltd

Licensee Address: Rocglen Coal Mine, Wean Road, GUNNEDAH NSW 2380

**EPL Monitoring Points:** See Figure 1 below

Sampling Period: October 2019
Obtained Date: 04 November 2019
Publication Date: 21 November 2019

#### **Table 1 - No Pollutant Limits Apply**

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Samples for the Month	Date(s) Sampled	Date(s) Obtained	Min Value	Mean Value	Median Value	Max or Only Value
4	Particulates- Deposited Matter	g/m²/month	Continuous	1	16/10/19	28/10/19	-	-	-	3.6
6	Particulates- Deposited Matter	g/m²/month	Continuous	1	16/10/19	28/10/19	-	-	-	1.8
10	PM <sub>10</sub>	μg/m³	Every 6 days	5	Various	04/11/19	33.1	74.56	92.5	114
	Conductivity	μS/cm	Special		_		-	-	-	-
11	Total organic carbon	mg/L	Frequency 1*	-	-	-	-	-	-	-
	Conductivity	μS /cm	Special				-	-	-	1
12	Total organic carbon	mg/L	Special Frequency 1*	-	-	-	-	-	-	1
	TSS	mg/L	Consist				-	-	-	1
13	Conductivity	μS/cm	Special Frequency 2**	_	_	_	-	-	-	-
13	Oil & Grease	mg/L	Trequency 2	_	_	_	-	-	-	-
	рН	рН					-	-	-	ı



# WHITEHAVEN COAL

**Rocglen Coal Mine- Monthly Monitoring Summary** 

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Samples for the Month	Date(s) Sampled	Date(s) Obtained	Min Value	Mean Value	Median Value	Max or Only Value
	Total organic carbon	mg/L					-	1	-	-
	TSS	mg/L					-	1	-	-
	Conductivity	μS/cm					-	1	-	-
	Oil & Grease	mg/L	Special	_	_	_	-	1	-	-
14	рН	рН	Frequency 2**	_	_	_	-	1	-	-
	Total organic carbon	mg/L	Trequency 2				-	-	-	-
	TSS	mg/L					-	-	-	-
Ī	Conductivity	μS /cm					-	-	-	-
15	Oil & Grease	mg/L	Special	_			-	-	-	-
12	рН	рН	Frequency 2**	_	_	_	-	-	-	
	Total organic carbon	mg/L					-	-	-	-

<sup>&</sup>lt;sup>1</sup>result caused by a regional dust event, not mine related.

# **Table 2 - Pollutant Limits Apply**

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Samples for the Month	Date(s) Sampled	Date(s) Obtained	Min Value	Max or Only Value	100%ile Limit	Exceedance (Yes/No)	Comments
	TSS	mg/L	Special				-	-	50	-	
11	Oil & Grease	mg/L	Frequency	-	-	-	-	-	10	-	
	рН	рН	1*				-	-	6.5-8.5	-	
	TSS	mg/L	Special				-	-	50	-	
12	Oil & Grease	mg/L	Frequency	-	-	-	-	-	10	-	
	рН	рН	1*				-	-	6.5-8.5	-	



- \* Special Frequency 1 means the collection of samples as soon as practicable after each discharge commences and in any case not more than 12 hours after each discharge commences.
- \*\* Special Frequency 2 means collection of samples quarterly (in the event of flow during the quarter) at a time when there is flow and as soon as practicable after each wet weather discharge from points 11 and 12 commences and in any case not more than 12 hours after each discharge commences.

Table 3 – Monitoring (Quarterly & Yearly – No Limits apply)

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Samples for the Month	Date Sampled	Date Obtained	Min Value	Mean Value	Median Value	Max Value/Only Value
	Aluminium	mg/L					-	-	-	
	Arsenic	mg/L					-	-	-	
	Bicarbonate	mg/L	Va a ulc.				-	-	-	
16	Chloride	mg/L	Yearly	-	-	-	-	-	-	
	Iron	mg/L					-	-	-	
	Manganese	mg/L					-	-	-	
	Sodium	mg/L					-	-	-	
	Conductivity	μS/cm					-	-	-	2170
	Oil & Grease	mg/L			19/11/2019		-	-	-	<5
16	рН	рН	Quarterly		, ,	-	-	-	-	8.55
	TOC	mg/L					-	-	-	2
	TSS	mg/L	1				-	-	-	31



## Rocglen Coal Mine- Monthly Monitoring Summary Table 4 – Monitoring (Noise – Limits Apply)

Note: Measured noise levels are not necessarily the result of activity at Rocglen Coal Mine

EPL ID	Date	Start Time	Period (mins)	Rocglen Measured Levels – dB(A) Leq 15min Day	Rocglen Measured Levels – dB(A) Leq 15min Evening	Rocglen Measured Levels – dB(A) Leq 15min Night	Rocglen Measured Levels – dB(A) La 1min Night	Limits	Wind speed (m/s)	Compliant (Y/N)	Comments
N1											
N2											

Rocglen Coal Mine- Monthly Monitoring Summary Figure 1 – EPL 12870 Monitoring Locations





#### **Site Information**

**EPL No:** 12870

**EPA Website Link:** <a href="http://epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=40278&SYSUID=1&LICID=12870">http://epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=40278&SYSUID=1&LICID=12870</a>

Licensee: Whitehaven Coal Mining Pty Ltd

Licensee Address: Rocglen Coal Mine, Wean Road, GUNNEDAH NSW 2380

**EPL Monitoring Points:** See Figure 1 below

Sampling Period: November 2019
Obtained Date: 12 December 2019
Publication Date: 18 December 2019

#### **Table 1 - No Pollutant Limits Apply**

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Samples for the Month	Date(s) Sampled	Date(s) Obtained	Min Value	Mean Value	Median Value	Max or Only Value
4	Particulates- Deposited Matter	g/m²/month	Continuous	1	20/11/19	28/10/19	-	-	-	2.8
6	Particulates- Deposited Matter	g/m²/month	Continuous	1	20/11/19	28/10/19	-	-	-	1.5
10	$PM_{10}$	μg/m³	Every 6 days	5	Various	04/12/19	4	68.6	41.35	187
	Conductivity	μS/cm	Cassial				-	-	-	-
11	Total organic carbon	mg/L	Special Frequency 1*	-	-	-	-	-	-	-
	Conductivity	μS /cm	Cassial				-	-	-	-
12	Total organic carbon	mg/L	Special Frequency 1*	-	-	-	-	-	-	-
	TSS	mg/L					-	-	-	-
	Conductivity	μS/cm	Conside				-	-	-	-
13	Oil & Grease	mg/L	Special Frequency 2**	*			-	-	-	-
12	рН	рН	Trequency 2	_	-	_	-	-	-	-
	Total organic carbon	mg/L					-	-	-	-

# WHITEHAVEN COAL

**Rocglen Coal Mine- Monthly Monitoring Summary** 

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Samples for the Month	Date(s) Sampled	Date(s) Obtained	Min Value	Mean Value	Median Value	Max or Only Value
	TSS	mg/L					-	-	-	-
	Conductivity	μS/cm					-	-	-	-
	Oil & Grease	mg/L	Special	_	_	_	1	-	-	-
14	рН	рН	Frequency 2**	_	_	_	1	-	-	-
	Total organic carbon	mg/L	Trequelicy 2				-	-	-	-
	TSS	mg/L					-	-	-	-
	Conductivity	μS /cm					-	-	-	-
15	Oil & Grease	mg/L	Special	_	_	_	1	-	-	-
13	pH	рН	Frequency 2**	-	_	_	1	-	-	-
	Total organic carbon	mg/L					1	-	-	-

<sup>&</sup>lt;sup>1</sup>result caused by a regional dust event, not mine related.

#### **Table 2 - Pollutant Limits Apply**

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Samples for the Month	Date(s) Sampled	Date(s) Obtained	Min Value	Max or Only Value	100%ile Limit	Exceedance (Yes/No)	Comments
	TSS	mg/L	Special				1	-	50	-	
11	Oil & Grease	mg/L	Frequency	-	-	-	-	-	10	-	
	рН	рН	1*				1	-	6.5-8.5	-	
	TSS	mg/L	Special				1	-	50	-	
12	Oil & Grease	mg/L	Frequency	-	-	-	-	-	10	-	
	рН	рН	1*				-	-	6.5-8.5	-	

<sup>\*</sup> Special Frequency 1 means the collection of samples as soon as practicable after each discharge commences and in any case not more than 12 hours after each discharge commences.



\*\* Special Frequency 2 means collection of samples quarterly (in the event of flow during the quarter) at a time when there is flow and as soon as practicable after each wet weather discharge from points 11 and 12 commences and in any case not more than 12 hours after each discharge commences.

### Table 3 – Monitoring (Quarterly & Yearly – No Limits apply)

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Samples for the Month	Date Sampled	Date Obtained	Min Value	Mean Value	Median Value	Max Value/Only Value
	Aluminium	mg/L				-	-	-	-	
	Arsenic	mg/L	Yearly				-	-	-	
	Bicarbonate	mg/L		-			-	-	-	
16	Chloride	mg/L			-		-	-	-	
	Iron	mg/L					-	-	-	
	Manganese	mg/L					-	-	-	
	Sodium	mg/L					-	-	-	
	Conductivity	μS/cm					-	-	-	
	Oil & Grease	mg/L					-	-	-	
16	рН	рН	Quarterly			-	-	-	-	
	TOC	mg/L	Quarterry				-	-	-	
	TSS	mg/L					-	-	-	



## Rocglen Coal Mine- Monthly Monitoring Summary Table 4 – Monitoring (Noise – Limits Apply)

Note: Measured noise levels are not necessarily the result of activity at Rocglen Coal Mine

EPL ID	Date	Start Time	Period (mins)	Rocglen Measured Levels – dB(A) Leq 15min Day	Rocglen Measured Levels – dB(A) Leq 15min Evening	Rocglen Measured Levels – dB(A) Leq 15min Night	Rocglen Measured Levels – dB(A) LA 1min Night	Limits	Wind speed (m/s)	Compliant (Y/N)	Comments
N1											
N2											

Rocglen Coal Mine- Monthly Monitoring Summary Figure 1 – EPL 12870 Monitoring Locations





#### **Site Information**

**EPL No:** 12870

**EPA Website Link:** <a href="http://epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=40278&SYSUID=1&LICID=12870">http://epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=40278&SYSUID=1&LICID=12870</a>

Licensee: Whitehaven Coal Mining Pty Ltd

Licensee Address: Rocglen Coal Mine, Wean Road, GUNNEDAH NSW 2380

**EPL Monitoring Points:** See Figure 1 below

Sampling Period: December 2019
Obtained Date: 15 January 2019
Publication Date: 16 January 2020

#### **Table 1 - No Pollutant Limits Apply**

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Samples for the Month	Date(s) Sampled	Date(s) Obtained	Min Value	Mean Value	Median Value	Max or Only Value
4	Particulates- Deposited Matter	g/m²/month	Continuous	1	17/12/2019	31/12/2019	-	-	-	5.3
6	Particulates- Deposited Matter	g/m²/month	Continuous	1	17/12/2019	31/12/2019	-	-	-	3.4
10	PM <sub>10</sub>	μg/m³	Every 6 days	5	Various	10/01/2020	4	83.5	94.7	155
	Conductivity	μS/cm	Consint				-	-	-	-
11	Total organic carbon	mg/L	Special Frequency 1*	-		-	-	-	-	-
	Conductivity	μS /cm	Coosial		-	-	-	-	-	-
12	Total organic carbon	mg/L	Special Frequency 1*	-			-	-	-	-
	TSS	mg/L					-	-	-	-
	Conductivity	μS/cm	Consint				-	-	-	-
13	Oil & Grease	mg/L	Special Frequency 2**	_	_		-	-	-	-
13	рН	рН	Trequency 2	_	_	_	-	-	-	-
	Total organic carbon	mg/L					-	-	-	-

# WHITEHAVEN COAL

**Rocglen Coal Mine- Monthly Monitoring Summary** 

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Samples for the Month	Date(s) Sampled	Date(s) Obtained	Min Value	Mean Value	Median Value	Max or Only Value
	TSS	mg/L					-	-	-	-
	Conductivity	μS/cm			-	-	-	-	-	-
	Oil & Grease	mg/L	Special	-			-	-	-	-
14	рН	рН	Frequency 2**				-	1	-	-
	Total organic carbon	mg/L	rrequency 2				-	-	-	-
	TSS	mg/L				-	-	-	-	-
	Conductivity	μS /cm					-	1	-	-
15	Oil & Grease	mg/L	Special	_	_		-	1	-	-
12	рН	рН	Frequency 2**	_	_		-	1	-	-
	Total organic carbon	mg/L					-	-	-	-

<sup>&</sup>lt;sup>1</sup>result caused by a regional dust event, not mine related.

#### **Table 2 - Pollutant Limits Apply**

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Samples for the Month	Date(s) Sampled	Date(s) Obtained	Min Value	Max or Only Value	100%ile Limit	Exceedance (Yes/No)	Comments
	TSS	mg/L	Special				-	-	50	-	
11	Oil & Grease	mg/L	Frequency	-	-	-	-	-	10	-	
	рН	рН	1*				-	-	6.5-8.5	-	
	TSS	mg/L	Special				-	-	50	-	
12	Oil & Grease	mg/L	Frequency	-	-	-	-	-	10	-	
	рН	рН	1*				-	-	6.5-8.5	-	

<sup>\*</sup> Special Frequency 1 means the collection of samples as soon as practicable after each discharge commences and in any case not more than 12 hours after each discharge commences.



\*\* Special Frequency 2 means collection of samples quarterly (in the event of flow during the quarter) at a time when there is flow and as soon as practicable after each wet weather discharge from points 11 and 12 commences and in any case not more than 12 hours after each discharge commences.

### Table 3 – Monitoring (Quarterly & Yearly – No Limits apply)

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Samples for the Month	Date Sampled	Date Obtained	Min Value	Mean Value	Median Value	Max Value/Only Value
	Aluminium	mg/L				-	-	-	-	
	Arsenic	mg/L	Yearly				-	-	-	
	Bicarbonate	mg/L		0	-		-	-	-	
16	Chloride	mg/L					-	-	-	
	Iron	mg/L					-	-	-	
	Manganese	mg/L					-	-	-	
	Sodium	mg/L					-	-	-	
	Conductivity	μS/cm					-	-	-	
	Oil & Grease	mg/L					-	-	-	
16	рН	рН	Quarterly	0	-	-	-	-	-	
	TOC	mg/L	Δ				-	-	-	
	TSS	mg/L					-	-	-	

#### Tables 4-1 and 4-3 – Monitoring (Noise – Limits Apply)

Note: Measured noise levels are not necessarily the result of activity at Rocglen Coal Mine

Table 4-1 Summary of noise assessment at N1

		Noise Limits	TN1 Mine L <sub>Aeq</sub> Noise Level (dB)					
Date	Time	LA <sub>eq,15 min</sub>	Measured Mine Contribution	Additional LF Penalty	Exceedance			
2/12/2019	20:15	35	<25 (IA) <sup>1</sup>	-	0			
	12:08	35	<15 (IA) <sup>1</sup>	-	0			
	12:23	35	<13 (IA) <sup>1</sup>	-	0			
3/12/2019	23:26	35	O <sup>2</sup>	-	0			
	23:41	35	O <sup>2</sup>	-	0			
	23:56	35	O <sup>2</sup>	-	0			
	00:10	35	O <sup>2</sup>	-	0			
4/42/2040 -	12:10	35	<15 (IA) <sup>1</sup>	-	0			
4/12/2019 -	12:40	35	<12 (IA) <sup>1</sup>	-	0			
	21:30	35	<14 (IA) <sup>1</sup>	-	0			

Where mine noise was inaudible throughout the entire measurement, it is assumed that the contribution is less than 10dB below the measured LASO.

The mine was not operating during the night period.

Table 4-3 Summary of noise assessment at N2

		Noise Limits	N2 Mine L <sub>Aeq</sub> Noise Level (dB)					
Date	Time	LA <sub>eq,15 min</sub>	Measured Mine Contribution	Additional LF Penalty	Exceedance			
2/12/2019	21:24	35	<28 (IA)1	-	0			
	13:29	35	29	-	0			
2/12/2010 -	13:59	35	30	-	0			
3/12/2019 -	14:14	35	30	-	0			
	14:29	35	30	-	0			
	13:44	35	<19 (IA) <sup>1</sup>	-	0			
4/42/2040 -	14:44	35	28	-	0			
4/12/2019 -	14:59	35	30	-	0			
	20:45	35	<8 (IA)1	-	0			

Where mine noise was inaudible throughout the entire measurement, it is assumed that the contribution is less than 10dB below the measured Lago.

The mine was not operating during the night period.



Rocglen Coal Mine- Monthly Monitoring Summary Figure 1 – EPL 12870 Monitoring Locations

