

Site Information

EPL No: 12870

EPA Website Link: http://www.environment.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=31921&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: January 2013

Publication Date: 21st February 2013 (re-published 29th July 2014)

Table 1 - No Pollutant Limits Apply

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Samples for the Month	Date(s) Sampled	Date Obtained	Min Value	Mean Value	Median Value	Max Value
4	Particulates- Deposited Matter	g/m²/month	Continuous	1	17/1/2013	24/1/2013	2.5	2.5	2.5	2.5
6	Particulates- Deposited Matter	g/m²/month	Continuous	1	17/1/2013	24/1/2013	1.1	1.1	1.1	1.1
7	Particulates- Deposited Matter	g/m²/month	Continuous	1	17/1/2013	24/1/2013	1.8	1.8	1.8	1.8
10	PM ₁₀	μg/m³	Every 6 days	5	3,9,15,21,27/1/2013	13/2/2013	4.1	12.7	8.2	32.5
11	Conductivity	μS/cm	Special	1	31/1/2013	6/2/2013	336	336	336	336
11	Total organic carbon	mg/L	Frequency 1*	1	31/1/2013	6/2/2013	11	11	11	11
12	Conductivity	μS/cm	Special	0	-	-	-	-	-	-
12	Total organic carbon	mg/L	Frequency 1*	0	-	-	-	-	-	-
	TSS	mg/L		0	-	-	-	-	-	-
	Conductivity	μS/cm	Special	0	-	-	-	-	-	-
13	Oil & Grease	mg/L	Frequency 2**	0	-	-	-	-	-	-
	рН	рН	_	0	-	-	-	-	-	-
	Total organic carbon	mg/L		0	-	-	-	-	-	-

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Samples for the Month	Date(s) Sampled	Date Obtained	Min Value	Mean Value	Median Value	Max Value
	TSS	mg/L		2	29, 31/1/2013	7, 6/2/2013	15	18.5	18.5	22
	Conductivity	μS/cm	Special	2	29, 31/1/2013	7, 6/2/2013	104	202.5	202.5	301
	Oil & Grease	mg/L	Frequency	2	29, 31/1/2013	7, 6/2/2013	<5	<5	<5	<5
14	рН	рН	2**	2	29, 31/1/2013	7, 6/2/2013	7.13	7.13	7.13	7.13
	Total organic carbon	mg/L		2	29, 31/1/2013	7, 6/2/2013	32	47.5	47.5	63
	TSS	mg/L		2	29, 31/1/2013	7, 6/2/2013	<5	12	12	24
	Conductivity	μS/cm	Special	2	29, 31/1/2013	7, 6/2/2013	186	190	190	194
15	Oil & Grease	mg/L	Frequency	2	29, 31/1/2013	7, 6/2/2013	<5	<5	<5	<5
	рН	рН	2**	2	29, 31/1/2013	7, 6/2/2013	7.53	7.58	7.58	7.63
	Total organic carbon	mg/L		2	29, 31/1/2013	7, 6/2/2013	17	17	17	17

^{*} 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.

Table 2 - Pollutant Limits Apply

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Samples for the Month	Date Sampled	Date Obtained	Min Value	Max Value	100%ile Limit	Exceedance (Yes/No)	Comments
	TSS	mg/L	Special	1	31/1/2013	6/2/2013	404	404	50	No	F d . d
11	Oil & Grease	mg/L	Frequency	1	31/1/2013	6/2/2013	<5	<5	10	No	Exceeded 90%ile rainfall
	рН	рН	1*	1	31/1/2013	6/2/2013	7.29	7.29	6.5-8.5	No	90/one rannan
	TSS	mg/L	Special	0	-	-	-	-	-	-	No discharge
12	Oil & Grease	mg/L	Frequency	0	-	-	-	-	-	-	No discharge
	рН	рН	1*	0	-	-	-	-	-	-	No discharge

^{**} 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
	Aluminum	mg/L		0	ı	-	ı	ı	-	1
	Arsenic	mg/L		0	-	-	-	-	-	-
	Bicarbonate	mg/L	Voorb	0	-	-	-	-	-	-
16	Chloride	mg/L	Yearly	0	-	-	-	-	-	-
	Iron	mg/L		0	-	-	-	-	-	-
	Manganese	mg/L		0	-	-	-	-	-	-
	Sodium	mg/L		0	-	-	-	-	-	-
	Conductivity	μS/cm		0	-	-	-	-	-	-
	Oil & Grease	mg/L	Ouartarly	0	-	-	-	-	-	-
16	рН	рН	Quarterly	0	-	-	-	-	-	-
	TOC	mg/L		0	-	-	-	-	-	-
	TSS	mg/L		0	-	-	-	-	-	-



Table 4 – Monitoring (Noise – Limits Apply)

EPL ID	Date	Start Time	Period	Measured Levels – dB(A) Leq 15min Day	Measured Levels – dB(A) L _{eq 15min} Evening	Measured Levels – dB(A) L _{eq 15min Night}	Measured Levels – dB(A) L _{A 1min Night}	Limits	Wind speed/ direction	Compliant (Y/N)	Comments
											No monitoring for month
											No monitoring for month
											No monitoring for month
											No monitoring for month
								35 dB(A) Leq (15 min)			No monitoring for month
N1								Day, Evening, Night			No monitoring for month
								45 dB(A) L _A (1min) Night			No monitoring for month
											No monitoring for month
											No monitoring for month
											No monitoring for month
											No monitoring for month
											No monitoring for month
											No monitoring for month
											No monitoring for month
N2								35 dB(A) Leq (15 min) Day, Evening, Night			No monitoring for month
											No monitoring for month
											No monitoring for month
											No monitoring for month



EPL ID	Date	Start Time	Period	Measured Levels – dB(A) L _{eq 15min Day}	Measured Levels – dB(A) L _{eq 15min} Evening	Measured Levels – dB(A) L _{eq 15min Night}	Measured Levels – dB(A) L _{A 1min Night}	Limits	Wind speed/ direction	Compliant (Y/N)	Comments
											No monitoring for month
											No monitoring for month
								45 dB(A) L _A (1min) Night			No monitoring for month
											No monitoring for month
											No monitoring for month
											No monitoring for month

Table 5 – Monitoring (Blasts – Limits Apply)

EPL ID	Parameter	Units of Measure	Frequency	No. of Blasts for the Month	Average Value	Max Value	100%ile Limit	(Potential) Non-compliance /breach
BB1	Blast Noise	dB (Lin Peak)	Every Blast	7	98	102	120	No
BBI	Blast Vibration	mm/s	Every Blast	7	0.13	0.18	10	No
BB3	Blast Noise	dB (Lin Peak)	Every Blast	7	101.5	113.7	120	No
883	Blast Vibration	mm/s	Every Blast	7	0.23	0.30	10	No

DNT – Indicates the blast did not trigger a result at the monitor.





Figure 1 – EPL 12870 Monitoring Locations



Site Information

EPL No: 12870

EPA Website Link: http://www.environment.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=31921&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: February 2013

Publication Date: 13th March 2013 (re-published 29th July 2014)

Table 1 - No Pollutant Limits Apply

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Samples for the Month	Date(s) Sampled	Date Obtained	Min Value	Mean Value	Median Value	Max Value
4	Particulates- Deposited Matter	g/m²/month	Continuous	1	18/2/2013	26/2/2013	0.7	0.7	0.7	0.7
6	Particulates- Deposited Matter	g/m²/month	Continuous	1	18/2/2013	26/2/2013	0.5	0.5	0.5	0.5
7	Particulates- Deposited Matter	g/m²/month	Continuous	1	18/2/2013	26/2/2013	0.7	0.7	0.7	0.7
10	PM ₁₀	μg/m³	Every 6 days	5	2,8,14,20,26/2/2013	7/3/2013	<0.1	7.6	<0.1	11.2
11	Conductivity	μS/cm	Special	0	-	-	-	-	-	-
1 11	Total organic carbon	mg/L	Frequency 1*	0	-	-	-	-	-	-
12	Conductivity	μS/cm	Special	0	-	-	-	-	-	-
12	Total organic carbon	mg/L	Frequency 1*	0	-	-	-	-	-	-
	TSS	mg/L		0	-	-	-	-	-	-
	Conductivity	μS/cm	Special	0	-	-	-	-	-	-
13	Oil & Grease	mg/L	Frequency	0	-	-	-	-	-	-
	рН	рН	2**	0	-	-	-	-	-	-
	Total organic carbon	mg/L		0	-	-	-	-	-	-



EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Samples for the Month	Date(s) Sampled	Date Obtained	Min Value	Mean Value	Median Value	Max Value
	TSS	mg/L		0	•	-	-	-	-	-
	Conductivity	μS/cm	Special	0	-	-	-	-	-	-
	Oil & Grease	mg/L	Frequency	0	-	-	-	-	-	-
14	рН	рН	2**	0	-	-	-	-	-	-
	Total organic carbon	mg/L		0	•	-	-	-	-	-
	TSS	mg/L		0	1	-	-	-	ı	-
	Conductivity	μS/cm	Special	0	-	-	-	-	-	-
15	Oil & Grease	mg/L	Frequency	0	-	-	-	-	-	-
	рН	рН	2**	0	-	-	-	-	-	-
	Total organic carbon	mg/L		0	-	-	-	-	-	-

^{*} 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.

Table 2 - Pollutant Limits Apply

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Samples for the Month	Date Sampled	Date Obtained	Min Value	Max Value	100%ile Limit	Exceedance (Yes/No)	Comments
	TSS	mg/L	Special	0	-	-	-	-	-	-	No discharge
11	Oil & Grease	mg/L	Frequency	0	-	-	-	-	-	-	No discharge
	рН	рН	1*	0	-	-	-	-	-	-	No discharge
	TSS	mg/L	Special	0	-	-	-	-	-	-	No discharge
12	Oil & Grease	mg/L	Frequency	0	-	-	-	-	-	-	No discharge
	рН	рН	1*	0	1	-	-	-	1	-	No discharge

^{**} 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
	Aluminum	mg/L		0	ı	-	-	1	-	-
	Arsenic	mg/L		0	-	-	-	-	-	-
	Bicarbonate	mg/L	Voorly	0	-	-	-	-	-	-
16	Chloride	mg/L	Yearly	0	-	-	-	-	-	-
	Iron	mg/L		0	-	-	-	-	-	-
	Manganese	mg/L		0	-	-	-	-	-	-
	Sodium	mg/L		0	-	-	-	-	-	-
	Conductivity	μS/cm		1	26/2/2013	6/3/2013	1680	1680	1680	1680
	Oil & Grease	mg/L	O. combonly	1	26/2/2013	6/3/2013	<5	<5	<5	<5
16	рН	рН	Quarterly	1	26/2/2013	6/3/2013	8.98	8.98	8.98	8.98
	TOC	mg/L		1	26/2/2013	6/3/2013	2	2	2	2
	TSS	mg/L		1	26/2/2013	6/3/2013	12	12	12	12



Table 4 – Monitoring (Noise – Limits Apply)

EPL ID	Date	Start Time	Period	Measured Levels – dB(A) L _{eq 15min Day}	Measured Levels - dB(A) Leq 15min Evening	Measure d Levels – dB(A) L _{eq 15min} Night	Measure d Levels – dB(A) L _{A 1min Night}	Limits	Wind speed/ direction	Compliant (Y/N)	Comments
											No monitoring for month
											No monitoring for month
											No monitoring for month
											No monitoring for month
								35 dB(A) Leq (15 min) Day,			No monitoring for month
N1								Evening, Night			No monitoring for month
								45 dB(A) L _A (1min) Night			No monitoring for month
											No monitoring for month
											No monitoring for month
											No monitoring for month
											No monitoring for month
											No monitoring for month
											No monitoring for month
											No monitoring for month
N2								35 dB(A) Leq (15 min) Day, Evening, Night			No monitoring for month
											No monitoring for month
											No monitoring for month
											No monitoring for month



EPL ID	Date	Start Time	Period	Measured Levels – dB(A) L _{eq 15min Day}	Measured Levels – dB(A) Leq 15min Evening	Measure d Levels – dB(A) L _{eq 15min}	Measure d Levels – dB(A) L _{A 1min Night}	Limits	Wind speed/ direction	Compliant (Y/N)	Comments
											No monitoring for month
											No monitoring for month
								45 dB(A) L _A (1min) Night			No monitoring for month
											No monitoring for month
											No monitoring for month
											No monitoring for month

Table 5 – Monitoring (Blasts – Limits Apply)

EPL ID	Parameter	Units of Measure	Frequency	No. of Blasts for the Month	Average Value	Max Value	100%ile Limit	(Potential) Non-compliance /breach
DD1	Blast Noise	dB (Lin Peak)	Every Blast	5	DNT	DNT	120	No
BB1	Blast Vibration	mm/s	Every Blast	5	DNT	DNT	10	No
BB3	Blast Noise	dB (Lin Peak)	Every Blast	5	111.2	111.2	120	No
863	Blast Vibration	mm/s	Every Blast	5	0.08	0.08	10	No

DNT – Indicates the blast did not trigger a result at the monitor.





Figure 1 – EPL 12870 Monitoring Locations



Site Information

EPL No: 12870

EPA Website Link: http://www.environment.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=31921&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: March 2013

Publication Date: 22nd April 2013 (re-published 29th July 2014)

Table 1 - No Pollutant Limits Apply

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Samples for the Month	Date(s) Sampled	Date Obtained	Min Value	Mean Value	Median Value	Max Value
4	Particulates- Deposited Matter	g/m²/month	Continuous	1	18/3/2013	26/3/2013	1.6	1.6	1.6	1.6
6	Particulates- Deposited Matter	g/m²/month	Continuous	1	18/3/2013	26/3/2013	0.3	0.3	0.3	0.3
7	Particulates- Deposited Matter	g/m²/month	Continuous	1	18/3/2013	26/3/2013	0.2	0.2	0.2	0.2
10	PM ₁₀	μg/m³	Every 6 days	5	4,10,16,22,28/3/2013	10/4/2013	<0.1	18	19.7	20.3
11	Conductivity	μS/cm	Special	1	2/3/2013	11/3/2013	380	380	380	380
11	Total organic carbon	mg/L	Frequency 1*	1	2/3/2013	11/3/2013	5	5	5	5
12	Conductivity	μS/cm	Special	0	-	-	-	-	-	-
12	Total organic carbon	mg/L	Frequency 1*	0	-	-	-	-	-	-
	TSS	mg/L		0	-	-	-	-	-	-
	Conductivity	μS/cm	Cracial	0	-	-	-	-	-	-
13	Oil & Grease	mg/L	Special Frequency 2**	0	-	-	-	-	-	-
	рН	рН	Trequency 2	0	-	-	-	-	-	-
	Total organic carbon	mg/L		0	-	-	-	-	-	-



EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Samples for the Month	Date(s) Sampled	Date Obtained	Min Value	Mean Value	Median Value	Max Value
	TSS	mg/L		1	2/3/2013	11/3/2013	40	40	40	40
	Conductivity	μS/cm	Consist	1	2/3/2013	11/3/2013	105	105	105	105
	Oil & Grease	mg/L	Special Frequency 2**	1	2/3/2013	11/3/2013	<5	<5	<5	<5
14	рН	рН	Trequency 2	1	2/3/2013	11/3/2013	7.25	7.25	7.25	7.25
	Total organic carbon	mg/L		1	2/3/2013	11/3/2013	12	12	12	12
	TSS	mg/L		1	2/3/2013	11/3/2013	22	22	22	22
	Conductivity	μS/cm	Consist	1	2/3/2013	11/3/2013	198	198	198	198
15	Oil & Grease	mg/L	Special Frequency 2**	1	2/3/2013	11/3/2013	<5	<5	<5	<5
	рН	рН	Trequency 2	1	2/3/2013	11/3/2013	7.56	7.56	7.56	7.56
	Total organic carbon	mg/L		1	2/3/2013	11/3/2013	15	15	15	15

^{*} 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.

Table 2 - Pollutant Limits Apply

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Samples for the Month	Date Sampled	Date Obtained	Min Value	Max Value	100%ile Limit	Exceedance (Yes/No)	Comments
	TSS	mg/L	Special	1	2/3/2013	11/3/2013	374	374	50	No	75.4 mm of
11	Oil & Grease	mg/L	Frequency	1	2/3/2013	11/3/2013	<5	<5	10	No	rainfall received
	рН	рН	1*	1	2/3/2013	11/3/2013	8.09	8.09	6.5 - 8.5	No	in 5 days
	TSS	mg/L	Special	0	-	-	-	-	-	-	No discharge
12	Oil & Grease	mg/L	Frequency	0	-	-	-	1	-	-	No discharge
	рН	рН	1*	0	-	-	-	-	-	-	No discharge

^{**} 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
	Aluminum	mg/L		0	-	-	1	-	-	-
	Arsenic	mg/L		0	-	-	-	-	-	-
	Bicarbonate	mg/L	Voorby	0	-	-	-	-	-	-
16	Chloride	mg/L	Yearly	0	-	-	-	-	-	-
	Iron	mg/L		0	-	-	-	-	-	-
	Manganese	mg/L		0	-	-	-	-	-	-
	Sodium	mg/L		0	-	-	-	-	-	-
	Conductivity	μS/cm		0	-	-	-	-	-	-
	Oil & Grease	mg/L	O. combonly	0	-	-	-	-	-	-
16	рН	рН	Quarterly	0	-	-	-	-	-	-
	TOC	mg/L		0	-	-	-	-	-	-
	TSS	mg/L		0	-	-	-	-	-	-



Table 4 – Monitoring (Noise – Limits Apply)

EPL ID	Date	Start Time	Period	Measured Levels – dB(A) Leq 15min Day	Measured Levels – dB(A) Leq 15min Evening	Measure d Levels – dB(A) L _{eq 15min} Night	Measure d Levels – dB(A) L _{A 1min Night}	Limits	Wind speed/ direction	Compliant (Y/N)	Comments
		4:20pm	90min Day	<20					1.7m/s S	Υ	
	18/03/2013	9:12pm	30min Evening		Inaudible				3.3m/s 3	Y	
	16/03/2013	11:40pm	60min Night			23			4.2m/s E	Y	
		11:40pm	60min Night				31		4.2m/s E	Y	
		9:20am	90min Day	Inaudible					3.9m/s ESE	Y	
N1	19/03/2013	9:09pm	30min Evening		18			35 dB(A) Leq (15 min) Day, Evening, Night	4.6 m/s ESE	Y	
	13/03/2013	1:10am	60min Night			Inaudible		45 dB(A) L _A (1min) Night	4.7 m/s E	Y	
		1:10am	60min Night				Inaudible		4.7 m/s E	Y	
		10:00 am	90min Day	Inaudible					2.5 m/s E	Y	
	20/03/2013	8:15pm	30min Evening		Inaudible				1.6 m/s E	Y	
	20,03,2013	10:01pm	60min Night			Inaudible			3.7 m/s ENE	Y	
		10:01pm	60min Night				Inaudible		3.7 m/s ENE	Y	
		1:05pm	90min Day	30					1.3 m/s SE	Y	
	18/03/2013	8:10pm	30min Evening		Inaudible				3.8 m/s SSW	Y	
N2	10/03/2013	10:24pm	60min Night			20		35 dB(A) Leq (15 min) Day, Evening, Night	3.1 m/s E	Υ	
INZ		10:24pm	60min Night				31		3.1 m/s E	Υ	
	10/02/2012	7:45am	90min Day	33					3.3 m/s ESE	Υ	
	19/03/2013	7:56pm	30min Evening		Inaudible				1.3 m/s S	Y	



EPL ID	Date	Start Time	Period	Measured Levels – dB(A) L _{eq 15min Day}	Measured Levels – dB(A) Leq 15min Evening	Measure d Levels - dB(A) L _{eq 15min} Night	Measure d Levels - dB(A) L _{A 1min Night}	Limits	Wind speed/ direction	Compliant (Y/N)	Comments
		10:01pm	60min Night			Inaudible			4.9 m/s E	Y	
		10:01pm	60min Night				Inaudible		4.9 m/s E	Υ	
		1:12pm	90min Day	25				45 dB(A) L _A (1min) Night	1.5 m/s E	Υ	
	20/02/2012	9:05pm	30min Evening		20				3.6 m/s E	Y	
	20/03/2013	11:05pm	60min Night			Inaudible			2.2 m/s ENE	Υ	
		11:05pm	60min Night				Inaudible		2.2 m/s ENE	Y	

Table 5 – Monitoring (Blasts – Limits Apply)

EPL ID	Parameter	Units of Measure	Frequency	No. of Blasts for the Month	Average Value	Max Value	100%ile Limit	(Potential) Non-compliance /breach
BB1	Blast Noise	dB (Lin Peak)	Every Blast	4	96.4	96.9	120	No
PDI	Blast Vibration	mm/s	Every Blast	4	0.23	0.24	10	No
DD2	Blast Noise	dB (Lin Peak)	Every Blast	4	111.7	118.9	120	No
BB3	Blast Vibration	mm/s	Every Blast	4	0.22	0.37	10	No

DNT – Indicates the blast did not trigger a result at the monitor.





Figure 1 – EPL 12870 Monitoring Locations



Site Information

EPL No: 12870

EPA Website Link: http://www.environment.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=32393&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: April 2013

Publication Date: 13th May 2013 (re-published 29th July 2014)

Table 1 - No Pollutant Limits Apply

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Samples for the Month	Date(s) Sampled	Date Obtained	Min Value	Mean Value	Median Value	Max Value
4	Particulates- Deposited Matter	g/m²/month	Continuous	1	17/4/2013	26/4/2013	0.5	0.5	0.5	0.5
6	Particulates- Deposited Matter	g/m²/month	Continuous	1	17/4/2013	26/4/2013	0.8	0.8	0.8	0.8
7	Particulates- Deposited Matter	g/m²/month	Continuous	1	17/4/2013	26/4/2013	0.7	0.7	0.7	0.7
10	PM ₁₀	μg/m³	Every 6 days	5	3,9,15,21,27/4/2013	7/5/2013	6.1	11.7	11.2	19.5
11	Conductivity	μS/cm	Special	0	-	-	-	-	-	-
11	Total organic carbon	mg/L	Frequency 1*	0	-	-	-	-	-	-
12	Conductivity	μS/cm	Special	0	-	-	-	-	-	-
12	Total organic carbon	mg/L	Frequency 1*	0	-	-	-	-	-	-
	TSS	mg/L		0	-	-	-	-	-	-
	Conductivity	μS/cm	Special	0	-	-	-	-	-	-
13	Oil & Grease	mg/L	Frequency 2**	0	-	-	-	-	-	-
	рН	рН		0	-	-	-	-	-	-
	Total organic carbon	mg/L		0	-	-	-	-	-	-

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Samples for the Month	Date(s) Sampled	Date Obtained	Min Value	Mean Value	Median Value	Max Value
	TSS	mg/L		0	-	-	-	-	-	-
	Conductivity	μS/cm	Caraial	0	-	-	-	-	-	-
	Oil & Grease	mg/L	Special Frequency 2**	0	-	-	-	-	-	-
14	рН	рН	Trequency 2	0	-	-	-	-	-	-
	Total organic carbon	mg/L		0	-	-	-	-	-	-
	TSS	mg/L		0	-	-	-	-	-	-
	Conductivity	μS/cm	Caraial	0	-	-	-	-	-	-
15	Oil & Grease	mg/L	Special Frequency 2**	0	-	-	-	-	-	-
	рН	рН	Trequency 2	0	-	-	-	-	-	-
	Total organic carbon	mg/L		0	-	-	-	-	-	-

^{*} 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.

Table 2 - Pollutant Limits Apply

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Samples for the Month	Date Sampled	Date Obtained	Min Value	Max Value	100%ile Limit	Exceedance (Yes/No)	Comments
	TSS	mg/L	Special	0	-	-	-	-	-	-	No discharge
11	Oil & Grease	mg/L	Frequency	0	-	-	-	-	-	-	No discharge
	рН	рН	1*	0	-	-	-	-	-	-	No discharge
	TSS	mg/L	Special	0	-	-	-	-	-	-	No discharge
12	Oil & Grease	mg/L	Frequency	0	-	-	-	-	-	-	No discharge
	рН	рН	1*	0	-	-	-	-	-	-	No discharge

^{**} 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
	Aluminum	mg/L		0	ı	-	ı	1	-	1
	Arsenic	mg/L		0	-	-	-	-	-	1
	Bicarbonate	mg/L	Voorly	0	-	-	-	-	-	-
16	Chloride	mg/L	Yearly	0	-	-	-	-	-	-
	Iron	mg/L		0	-	-	-	-	-	-
	Manganese	mg/L		0	-	-	-	-	-	-
	Sodium	mg/L		0	-	-	-	-	-	-
	Conductivity	ms/cm		0	-	-	-	-	-	-
	Oil & Grease	mg/L	O. combonly	0	-	-	-	-	-	-
16	рН	рН	Quarterly	0	-	-	-	-	-	-
	TOC	mg/L		0	-	-	-	-	-	-
	TSS	mg/L		0	1	-	-	1	-	-



Table 4 – Monitoring (Noise – Limits Apply)

EPL ID	Date	Start Time	Period	Measured Levels – dB(A) L _{eq 15min Day}	Measured Levels – dB(A) Leq 15min Evening	Measure d Levels - dB(A) L _{eq 15min} Night	Measure d Levels – dB(A) L _{A 1min Night}	Limits	Wind speed/ direction	Compliant (Y/N)	Comments
			90min Day								No monitoring for month
			30min Evening								No monitoring for month
			60min Night								No monitoring for month
			60min Night								No monitoring for month
			90min Day								No monitoring for month
N1			30min Evening					35 dB(A) Leq (15 min) Day, Evening, Night			No monitoring for month
			60min Night					45 dB(A) L _A (1min) Night			No monitoring for month
			60min Night								No monitoring for month
			90min Day								No monitoring for month
			30min Evening								No monitoring for month
			60min Night								No monitoring for month
			60min Night								No monitoring for month
			90min Day								No monitoring for month
			30min Evening								No monitoring for month
N2			60min Night					35 dB(A) Leq (15 min) Day, Evening, Night			No monitoring for month
144			60min Night								No monitoring for month
			90min Day								No monitoring for month
			30min Evening								No monitoring for month



EPL ID	Date	Start Time	Period	Measured Levels – dB(A) L _{eq 15min Day}	Measured Levels – dB(A) Leq 15min Evening	Measure d Levels – dB(A) L _{eq 15min} Night	Measure d Levels – dB(A) L _{A 1min Night}	Limits	Wind speed/ direction	Compliant (Y/N)	Comments
			60min Night								No monitoring for month
			60min Night								No monitoring for month
			90min Day					45 dB(A) L _A (1min) Night			No monitoring for month
			30min Evening								No monitoring for month
			60min Night								No monitoring for month
			60min Night								No monitoring for month

Table 5 – Monitoring (Blasts – Limits Apply)

EPL ID	Parameter	Units of Measure	Frequency	No. of Blasts for the Month	Average Value	Max Value	100%ile Limit	(Potential) Non-compliance /breach
BB1	Blast Noise	dB (Lin Peak)	Every Blast	4	94.06	94.06	120	No
PDI	Blast Vibration	mm/s	Every Blast	4	0.2	0.2	10	No
DD2	Blast Noise	dB (Lin Peak)	Every Blast	4	102.6	107.3	120	No
BB3	Blast Vibration	mm/s	Every Blast	4	0.21	0.25	10	No

DNT – Indicates the blast did not trigger a result at the monitor.





Figure 1 – EPL 12870 Monitoring Locations



Site Information

EPL No: 12870

EPA Website Link: http://www.environment.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=32393&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 2013

Publication Date: 21st June 2013 (re-published 29th July 2014)

Table 1 - No Pollutant Limits Apply

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Samples for the Month	Date(s) Sampled	Date Obtained	Min Value	Mean Value	Median Value	Max Value
4	Particulates- Deposited Matter	g/m²/month	Continuous	1	16/5/2013	24/5/2013	1.3	1.3	1.3	1.3
6	Particulates- Deposited Matter	g/m²/month	Continuous	1	16/5/2013	24/5/2013	0.8	0.8	0.8	0.8
7	Particulates- Deposited Matter	g/m²/month	Continuous	1	16/5/2013	24/5/2013	0.6	0.6	0.6	0.6
10	PM ₁₀	μg/m³	Every 6 days	5	3,9,15,21,27/5/2013	11/6/2013	5.6	12.3	15.1	18.3
11	Conductivity	μS/cm	Special	0	-	-	-	-	-	-
11	Total organic carbon	mg/L	Frequency 1*	0	-	-	-	-	-	-
12	Conductivity	μS/cm	Special	0	-	-	1	-	-	-
12	Total organic carbon	mg/L	Frequency 1*	0	-	-	-	-	-	-
	TSS	mg/L		0	-	-	1	-	-	-
	Conductivity	μS/cm	Special	0	-	-	-	-	-	-
13	Oil & Grease	mg/L	Frequency	0	-	-	-	-	-	-
	рН	рН	2**	0	-	-	1	-	-	-
	Total organic carbon	mg/L		0	-	-	-	-	-	-

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Samples for the Month	Date(s) Sampled	Date Obtained	Min Value	Mean Value	Median Value	Max Value
	TSS	mg/L		0	-	ı	1	-	-	-
	Conductivity	μS/cm	Special	0	-	-	1	-	-	-
	Oil & Grease	mg/L	Frequency	0	-	-	1	-	-	-
14	рН	рН	2**	0	-	-	-	-	-	-
	Total organic carbon	mg/L		0	-	-	1	-	-	-
	TSS	mg/L		1	14/5/2013	22/5/2013	29	29	29	29
	Conductivity	μS/cm	Special	1	14/5/2013	22/5/2013	233	233	233	233
15	Oil & Grease	mg/L	Frequency	1	14/5/2013	22/5/2013	<5	<5	<5	<5
	рН	рН	2**	1	14/5/2013	22/5/2013	7.86	7.86	7.86	7.86
	Total organic carbon	mg/L		1	14/5/2013	22/5/2013	21	21	21	21

^{*} 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.

Table 2 - Pollutant Limits Apply

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Samples for the Month	Date Sampled	Date Obtained	Min Value	Max Value	100%ile Limit	Exceedance (Yes/No)	Comments
	TSS	mg/L	Special	0	-	-	-	-	-	-	No discharge
11	Oil & Grease	mg/L	Frequency	0	-	-	-	-	-	-	No discharge
	рН	рН	1*	0	-	-	-	-	-	-	No discharge
	TSS	mg/L	Special	0	-	-	-	-	-	-	No discharge
12	Oil & Grease	mg/L	Frequency	0	-	-	-	-	-	-	No discharge
	рН	рН	1*	0	-	-	-	-	-	-	No discharge

^{**} 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
	Aluminum	mg/L		0	ı	ı	•	1	-	-
	Arsenic	mg/L		0	-	-	1	-	-	-
	Bicarbonate	mg/L	Voorby	0	-	-	-	-	-	-
16	Chloride	mg/L	Yearly	0	-	-	-	-	-	-
	Iron	mg/L		0	-	-	-	-	-	-
	Manganese	mg/L		0	-	-	-	-	-	-
	Sodium	mg/L		0	-	-	-	-	-	-
	Conductivity	μS/cm		1	2/5/2013	8/5/2013	5350	5350	5350	5350
	Oil & Grease	mg/L	O. comboul.	1	2/5/2013	8/5/2013	<5	<5	<5	<5
16	рН	рН	Quarterly	1	2/5/2013	8/5/2013	8.54	8.54	8.54	8.54
	TOC	mg/L		1	2/5/2013	8/5/2013	1	1	1	1
	TSS	mg/L		1	2/5/2013	8/5/2013	6	6	6	6



Table 4 – Monitoring (Noise – Limits Apply)

EPL ID	Date	Start Time	Period	Measured Levels – dB(A) L _{eq 15min Day}	Measured Levels - dB(A) Leq 15min Evening	Measure d Levels – dB(A) L _{eq 15min} Night	Measure d Levels – dB(A) L _{A 1min Night}	Limits	Wind speed/ direction	Compliant (Y/N)	Comments
			90min Day								No monitoring for month
			30min Evening								No monitoring for month
			60min Night								No monitoring for month
			60min Night								No monitoring for month
			90min Day								No monitoring for month
N1			30min Evening					35 dB(A) Leq (15 min) Day, Evening, Night			No monitoring for month
IVI			60min Night					45 dB(A) L _A (1min) Night			No monitoring for month
			60min Night								No monitoring for month
			90min Day								No monitoring for month
			30min Evening								No monitoring for month
			60min Night								No monitoring for month
			60min Night								No monitoring for month
			90min Day								No monitoring for month
			30min Evening								No monitoring for month
N2			60min Night					35 dB(A) Leq (15 min) Day, Evening, Night			No monitoring for month
			60min Night								No monitoring for month



EPL ID	Date	Start Time	Period	Measured Levels – dB(A) L _{eq 15min Day}	Measured Levels – dB(A) Leq 15min Evening	Measure d Levels – dB(A) L _{eq 15min}	Measure d Levels – dB(A) L _{A 1min Night}	Limits	Wind speed/ direction	Compliant (Y/N)	Comments
			90min Day								No monitoring for month
			30min Evening								No monitoring for month
			60min Night								No monitoring for month
			60min Night								No monitoring for month
			90min Day					45 dB(A) L _A (1min) Night			No monitoring for month
			30min Evening								No monitoring for month
			60min Night								No monitoring for month
			60min Night								No monitoring for month

Table 5 – Monitoring (Blasts – Limits Apply)

EPL ID	Parameter	Units of Measure	Frequency	No. of Blasts for the Month	Average Value	Max Value	100%ile Limit	(Potential) Non-compliance /breach
DD1	Blast Noise	dB (Lin Peak)	Every Blast	3	DNT	DNT	120	No
BB1	Blast Vibration	mm/s	Every Blast	3	DNT	DNT	10	No
DD2	Blast Noise	dB (Lin Peak)	Every Blast	3	98.9	98.9	120	No
BB3	Blast Vibration	mm/s	Every Blast	3	0.45	0.45	10	No

DNT – Indicates the blast did not trigger a result at the monitor.







Figure 1 – EPL 12870 Monitoring Locations



Site Information

EPL No: 12870

EPA Website Link: http://www.environment.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=32393&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: June 2013

Publication Date: 19th July 2013 (re-published 29th July 2014)

Table 1 - No Pollutant Limits Apply

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Samples for the Month	Date(s) Sampled	Date Obtained	Min Value	Mean Value	Median Value	Max Value
4	Particulates- Deposited Matter	g/m²/month	Continuous	1	17/6/2013	25/6/2013	0.4	0.4	0.4	0.4
6	Particulates- Deposited Matter	g/m²/month	Continuous	1	17/6/2013	25/6/2013	0.4	0.4	0.4	0.4
7	Particulates- Deposited Matter	g/m²/month	Continuous	1	17/6/2013	25/6/2013	0.5	0.5	0.5	0.5
10	PM ₁₀	μg/m³	Every 6 days	5	2,14,20,26/6/2013	9/7/2013	1.0	2.0	1.4	5.4
11	Conductivity	μS/cm	Special	1	28/6/2013	9/7/2013	406	406	406	406
11	Total organic carbon	mg/L	Frequency 1*	1	28/6/2013	9/7/2013	5	5	5	5
12	Conductivity	μS/cm	Special	1	28/6/2013	9/7/2013	316	316	316	316
12	Total organic carbon	mg/L	Frequency 1*	1	28/6/2013	9/7/2013	3	3	3	3
	TSS	mg/L		1	28/6/2013	9/7/2013	28	28	28	28
	Conductivity	μS/cm	Special	1	28/6/2013	9/7/2013	63	63	63	63
13	Oil & Grease	mg/L	Frequency	1	28/6/2013	9/7/2013	<5	<5	<5	<5
	рН	рН	2**	1	28/6/2013	9/7/2013	7.09	7.09	7.09	7.09
	Total organic carbon	mg/L		1	28/6/2013	9/7/2013	12	12	12	12

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Samples for the Month	Date(s) Sampled	Date Obtained	Min Value	Mean Value	Median Value	Max Value
	TSS	mg/L		1	28/6/2013	9/7/2013	70	70	70	70
	Conductivity	μS/cm	Special Frequency 2**	1	28/6/2013	9/7/2013	79	79	79	79
	Oil & Grease	mg/L		1	28/6/2013	9/7/2013	<5	<5	<5	<5
14	рН	рН		1	28/6/2013	9/7/2013	7.18	7.18	7.18	7.18
	Total organic carbon	mg/L		1	28/6/2013	9/7/2013	10	10	10	10
	TSS	mg/L		1	28/6/2013	9/7/2013	87	87	87	87
	Conductivity	μS/cm	Special	1	28/6/2013	9/7/2013	122	122	122	122
15	Oil & Grease	mg/L	Frequency 2**	1	28/6/2013	9/7/2013	<5	<5	<5	<5
	рН	рН		1	28/6/2013	9/7/2013	7.49	7.49	7.49	7.49
	Total organic carbon	mg/L		1	28/6/2013	9/7/2013	10	10	10	10

^{*} 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.

Table 2 - Pollutant Limits Apply

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Samples for the Month	Date Sampled	Date Obtained	Min Value	Max Value	100%ile Limit	Exceedance (Yes/No)	Comments
	TSS	mg/L	Special	1	28/6/2013	9/7/2013	164	164	50	No	Over 38.4mm
11	Oil & Grease	mg/L	Frequency	1	28/6/2013	9/7/2013	<5	<5	10	No	of rainfall in 5
	рН	рН	1*	1	28/6/2013	9/7/2013	8.07	8.07	6.5-8.5	No	days
	TSS	mg/L	Special	1	28/6/2013	9/7/2013	751	751	50	No	Over 38.4mm
12	Oil & Grease	mg/L	Frequency	1	28/6/2013	9/7/2013	<5	<5	10	No	of rainfall in 5
	рН	рН	1*	1	28/6/2013	9/7/2013	8.25	8.25	6.5-8.5	No	days

^{**} 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
	Aluminum	mg/L		0	-	-	-	-	-	-
	Arsenic	mg/L		0	-	-	-	-	-	-
	Bicarbonate	mg/L	Yearly	0	-	-	-	-	-	-
16	Chloride	mg/L		0	-	-	-	-	-	-
	Iron	mg/L		0	-	-	-	-	-	-
	Manganese	mg/L		0	-	-	-	-	-	-
	Sodium	mg/L		0	-	-	-	-	-	-
	Conductivity	μS/cm		0	-	-	-	-	-	-
	Oil & Grease	mg/L	Quarterly	0	-	-	-	-	-	-
16	рН	рН		0	-	-	-	-	-	-
	TOC	mg/L		0	-	-	-	-	-	-
	TSS	mg/L		0	-	-	-	-	-	-



Table 4 – Monitoring (Noise – Limits Apply)

EPL ID	Date	Start Time	Period	Measured Levels – dB(A) L _{eq 15min Day}	Measured Levels - dB(A) Leq 15min Evening	Measure d Levels - dB(A) L _{eq 15min} Night	Measure d Levels – dB(A) L _{A 1min Night}	Limits	Wind speed/ direction	Compliant (Y/N)	Comments
		3:20pm	90min Day	<20					3.4 / 280	Y	
	24/6/2013	9:20pm	30min Evening		34				1.9 / 53	Y	
	24/0/2013	11:20pm	60min Night			<20			1.5 / 0	Y	
		11:20pm	60min Night				<35		1.5 / 0	Y	
	25/6/2013	2:05pm	90min Day	22				35 dB(A) Leq (15 min) Day, Evening, Night	Calm	Y	
N1		9:27pm	30min Evening		22				0.7 / 88	Υ	
		11:25pm	60min Night			<15		45 dB(A) L _A (1min) Night	Calm	Y	
		11:25pm	60min Night				<20		Calm	Y	
	26/6/2013	3:17pm	90min Day	Inaudible					3.3 / 176	Y	
	(day) 1/7/2013	7:45pm	30min Evening		<25				5.9 / 188	Y	
	(evening) 2/7/2013	1:40am	60min Night			25			1.3 / 128	Y	
	(night)	1:40am	60min Night				30		1.3 /128	Y	
		1:40pm	90min Day	<20					2.3 / 292	Y	
N2	24/6/2013	8:40pm	30min Evening		31				1.3 / 42	Y	
INZ	24/0/2013	10:10pm	60min Night			28		35 dB(A) Leq (15 min) Day, Evening, Night	2.2 / 27	Υ	
		10:10pm	60min Night				33		2.2 / 27	Y	



EPL ID	Date	Start Time	Period	Measured Levels – dB(A) L _{eq 15min Day}	Measured Levels – dB(A) Leq 15min Evening	Measure d Levels – dB(A) L _{eq 15min} Night	Measure d Levels – dB(A) L _{A 1min Night}	Limits	Wind speed/ direction	Compliant (Y/N)	Comments
		12:20pm	90min Day	<20					2.1 / 271	Y	
	25/6/2013	8:35pm	30min Evening		32				Calm	Y	
		10:10pm	60min Night			33			1.1 / 78	Y	
		10:10pm	60min Night				37		1.1 / 78	Υ	
	26/6/2013	1:22pm	90min Day	Inaudible				45 dB(A) L _A (1min) Night	2.1 / 195	Υ	
	(day) 1/7/2013	7:06pm	30min Evening		Inaudible				6.4 / 184	Υ	
	(evening) 2/7/2013	12:05am	60min Night			31			1.6 / 143	Υ	
	(night)	12:05am	60min Night				35		1.6 / 143	Y	

Table 5 – Monitoring (Blasts – Limits Apply)

EPL ID	Parameter	Units of Measure	Frequency	No. of Blasts for the Month	Average Value	Max Value	100%ile Limit	(Potential) Non-compliance /breach
BB1	Blast Noise	dB (Lin Peak)	Every Blast	3	95.1	95.1	120	No
PDI	Blast Vibration	mm/s	Every Blast	3	0.16	0.16	10	No
DDO	Blast Noise	dB (Lin Peak)	Every Blast	3	DNT	DNT	120	No
BB3	Blast Vibration	mm/s	Every Blast	3	DNT	DNT	10	No

DNT – Indicates the blast did not trigger a result at the monitor.







Figure 1 – EPL 12870 Monitoring Locations



Site Information

EPL No: 12870

EPA Website Link: http://www.environment.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=32393&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: July 2013

Publication Date: 9th August 2013 (re-published 29th July 2014)

Table 1 - No Pollutant Limits Apply

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Samples for the Month	Date(s) Sampled	Date Obtained	Min Value	Mean Value	Median Value	Max Value
4	Particulates- Deposited Matter	g/m²/month	Continuous	1	16/7/2013	24/7/2013	0.3	0.3	0.3	0.3
6	Particulates- Deposited Matter	g/m²/month	Continuous	1	16/7/2013	24/7/2013	0.2	0.2	0.2	0.2
7	Particulates- Deposited Matter	g/m²/month	Continuous	1	16/7/2013	24/7/2013	0.2	0.2	0.2	0.2
10	PM ₁₀	μg/m³	Every 6 days	5	Various	9/8/2013	0.6	4.0	4.2	6.0
11	Conductivity	μS/cm	Special	-	ı	-	-	-	-	-
11	Total organic carbon	mg/L	Frequency 1*	-	-	-	-	-	-	-
12	Conductivity	μS/cm	Special	-	ı	-	-	-	-	-
12	Total organic carbon	mg/L	Frequency 1*	-	-	-	-	-	-	-
	TSS	mg/L		-	ı	-	-	-	-	-
	Conductivity	μS/cm	Special	-	-	-	-	-	-	-
13	Oil & Grease	mg/L	Frequency 2**	-	-	-	-	-	-	-
	рН	рН		-	ı	-	-	-	-	-
	Total organic carbon	mg/L		-	-	-	-	-	-	-

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

^{*} 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.

Table 2 - Pollutant Limits Apply

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

^{**} 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
	Aluminum	mg/L		1	ı	-	-	-	-	1
	Arsenic	mg/L		1	-	-	-	-	-	1
	Bicarbonate	mg/L	Va a ale c	-	-	-	-	-	-	-
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	Measured Levels – dB(A) L _{eq 15min Day}	Measured Levels - dB(A) Leq 15min Evening	Measure d Levels - dB(A) L _{eq 15min} Night	Measure d Levels - dB(A) LA 1min Night	Limits	Wind speed/ direction	Compliant (Y/N)	Comments
			90min Day								No monitoring for month
			30min Evening								No monitoring for month
			60min Night								No monitoring for month
			60min Night								No monitoring for month
			90min Day								No monitoring for month
N1			30min Evening					35 dB(A) Leq (15 min) Day, Evening, Night			No monitoring for month
141			60min Night					45 dB(A) L _A (1min) Night			No monitoring for month
			60min Night								No monitoring for month
			90min Day								No monitoring for month
			30min Evening								No monitoring for month
			60min Night								No monitoring for month
			60min Night								No monitoring for month
			90min Day								No monitoring for month
			30min Evening								No monitoring for month
			60min Night					35 dB(A) Leq (15 min) Day, Evening, Night			No monitoring for month
			60min Night								No monitoring for month



EPL ID	Date	Start Time	Period	Measured Levels – dB(A) L _{eq 15min Day}	Measured Levels – dB(A) Leq 15min Evening	Measure d Levels – dB(A) L _{eq 15min}	Measure d Levels – dB(A) L _{A 1min Night}	Limits	Wind speed/ direction	Compliant (Y/N)	Comments
			90min Day								No monitoring for month
			30min Evening								No monitoring for month
			60min Night								No monitoring for month
			60min Night								No monitoring for month
			90min Day					45 dB(A) L _A (1min) Night			No monitoring for month
			30min Evening								No monitoring for month
			60min Night								No monitoring for month
			60min Night								No monitoring for month

Table 5 – Monitoring (Blasts – Limits Apply)

EPL ID	Parameter	Units of Measure	Frequency	No. of Blasts for the Month	Average Value	Max Value	100%ile Limit	(Potential) Non-compliance /breach
DD1	Blast Noise	dB (Lin Peak)	Every Blast	2	95.1	104.5	120	No
BB1	Blast Vibration	mm/s	Every Blast	2	0.32	0.39	10	No
BB3	Blast Noise	dB (Lin Peak)	Every Blast	2	90.1	90.1	120	No
BB3	Blast Vibration	mm/s	Every Blast	2	0.24	0.24	10	No

DNT – Indicates the blast did not trigger a result at the monitor.







Figure 1 – EPL 12870 Monitoring Locations



Site Information

EPL No: 12870

EPA Website Link: http://www.environment.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=32393&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: August 2013

Publication Date: 17th September 2013 (re-published 29th July 2014)

Table 1 - No Pollutant Limits Apply

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Samples for the Month	Date(s) Sampled	Date Obtained	Min Value	Mean Value	Median Value	Max Value
4	Particulates- Deposited Matter	g/m²/month	Continuous	1	15/8/2013	22/8/2013	0.4	0.4	0.4	0.4
6	Particulates- Deposited Matter	g/m²/month	Continuous	1	15/8/2013	22/8/2013	0.1	0.1	0.1	0.1
7	Particulates- Deposited Matter	g/m²/month	Continuous	1	15/8/2013	22/8/2013	0.2	0.2	0.2	0.2
10	PM ₁₀	μg/m³	Every 6 days	6	Various	11/9/2013	5.6	10.3	8.05	21.0
11	Conductivity	μS/cm	Special	-	-	-	1	-	-	-
11	Total organic carbon	mg/L	Frequency 1*	-	-	-	-	-	-	-
12	Conductivity	μS/cm	Special	-	-	-	1	-	-	-
12	Total organic carbon	mg/L	Frequency 1*	-	-	-	-	-	-	-
	TSS	mg/L	6	-	-	-	1	-	-	-
	Conductivity	μS/cm	Special	-	-	-	-	-	-	-
13	Oil & Grease	mg/L	Frequency 2**	-	-	-	-	-	-	-
	рН	рН	2	-	<u>-</u>	-	1	-	-	-
	Total organic carbon	mg/L		-	-	-	-	-	-	-

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

^{*} 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.

Table 2 - Pollutant Limits Apply

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

^{**} 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
	Aluminum	mg/L		0	-	-	-	-	1	-
	Arsenic	mg/L		0	-	-	-	-	1	-
	Bicarbonate	mg/L	Voorly	0	-	-	-	-	-	-
16	Chloride	mg/L	Yearly	0	-	-	-	-	-	-
	Iron	mg/L		0	-	-	-	-	-	-
	Manganese	mg/L		0	-	-	-	-	-	-
	Sodium	mg/L		0	-	-	-	-	-	-
	Conductivity	μS/cm		1	7/8/2013	13/8/2013	1180	1180	1180	1180
						Sample	Sample	Sample	Sample	Sample
	Oil & Grease	mg/L	Over mt a mlv.	1	7/8/2013	damaged in	damaged	damaged in	damaged in	damaged in
16			Quarterly			transit	in transit	transit	transit	transit
	рН	рН		1	7/8/2013	13/8/2013	8.78	8.78	8.78	8.78
	TOC	mg/L		1	7/8/2013	13/8/2013	4	4	4	4
	TSS	mg/L		1	7/8/2013	13/8/2013	23	23	23	23



Table 4 – Monitoring (Noise – Limits Apply)

EPL ID	Date	Start Time	Period	Measured Levels – dB(A) L _{eq 15min Day}	Measured Levels - dB(A) Leq 15min Evening	Measure d Levels – dB(A) L _{eq 15min} Night	Measure d Levels – dB(A) L _{A 1min Night}	Limits	Wind speed/ direction	Compliant (Y/N)	Comments
			90min Day								No monitoring for month
			30min Evening								No monitoring for month
			60min Night								No monitoring for month
			60min Night								No monitoring for month
			90min Day								No monitoring for month
N1			30min Evening					35 dB(A) Leq (15 min) Day, Evening, Night			No monitoring for month
141			60min Night					45 dB(A) L _A (1min) Night			No monitoring for month
			60min Night								No monitoring for month
			90min Day								No monitoring for month
			30min Evening								No monitoring for month
			60min Night								No monitoring for month
			60min Night								No monitoring for month
			90min Day								No monitoring for month
			30min Evening								No monitoring for month
N2			60min Night					35 dB(A) Leq (15 min) Day, Evening, Night			No monitoring for month
			60min Night								No monitoring for month



	90mi Day					No monitoring for month
	30m Eveni					No monitoring for month
	60m Nigh	n				No monitoring for month
	60m Nigh	n				No monitoring for month
	90m Day	n		45 dB(A) L _A (1min) Night		No monitoring for month
	30m Eveni					No monitoring for month
	60m Nigh	n				No monitoring for month
	60m Nigh	n				No monitoring for month

Table 5 – Monitoring (Blasts – Limits Apply)

EPL ID	Parameter	Units of Measure	Frequency	No. of Blasts for the Month	Average Value	Max Value	100%ile Limit	(Potential) Non-compliance /breach
DD1	Blast Noise	dB (Lin Peak)	Every Blast	7	94.1	94.1	120	No
BB1	Blast Vibration	mm/s	Every Blast	7	0.21	0.21	10	No
DD2	Blast Noise	dB (Lin Peak)	Every Blast	7	103.3	109.8	120	No
BB3	Blast Vibration	mm/s	Every Blast	7	0.29	0.33	10	No

DNT – Indicates the blast did not trigger a result at the monitor.







Figure 1 – EPL 12870 Monitoring Locations



Site Information

EPL No: 12870

EPA Website Link: http://www.epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=33011&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: September 2013

Publication Date: 11th October 2013 (re-published 29th July 2014)

Table 1 - No Pollutant Limits Apply

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Samples for the Month	Date(s) Sampled	Date Obtained	Min Value	Mean Value	Median Value	Max Value
4	Particulates- Deposited Matter	g/m²/month	Continuous	1	16/9/2013	24/9/2013	0.7	0.7	0.7	0.7
6	Particulates- Deposited Matter	g/m²/month	Continuous	1	16/9/2013	24/9/2013	0.8	0.8	0.8	0.8
7	Particulates- Deposited Matter	g/m²/month	Continuous	1	16/9/2013	24/9/2013	0.4	0.4	0.4	0.4
10	PM ₁₀	μg/m³	Every 6 days	4	Various	4/10/2013	10.2	23.05	23.15	35.7
11	Conductivity	μS/cm	Special	-	-	-	1	-	-	1
11	Total organic carbon	mg/L	Frequency 1*	-	-	-	1	-	1	1
12	Conductivity	μS/cm	Special	-	-	-	1	-	-	1
12	Total organic carbon	mg/L	Frequency 1*	-	-	-	-	-	-	-
	TSS	mg/L		-	-	-	-	-	-	-
	Conductivity	μS/cm	Special	-	-	-	-	-	-	-
13	Oil & Grease	mg/L	Frequency 2**	-	-	-	-	-	-	-
	рН	рН		-	-	-	1	-	-	1
	Total organic carbon	mg/L		-	-	-	-	-	-	-

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

^{*} 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.

Table 2 - Pollutant Limits Apply

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

^{**} 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
	Aluminum	mg/L		0	-	-	1	-	-	-
	Arsenic	mg/L		0	-	-	-	-	-	-
	Bicarbonate	mg/L	Voorly	0	-	-	-	-	-	-
16	Chloride	mg/L	Yearly	0	-	-	-	-	-	-
	Iron	mg/L		0	-	-	-	-	-	-
	Manganese	mg/L		0	-	-	-	-	-	-
	Sodium	mg/L		0	-	-	-	-	-	-
	Conductivity	μS/cm		1	-	-	-	-	-	-
	Oil & Grease	mg/L	O. combonly	1	-	-	-	-	-	-
16	рН	рН	Quarterly	1	-	-	-	-	-	-
	TOC	mg/L		1	-	-	-	-	-	-
	TSS	mg/L		1	-	-	-	-	-	-



Table 4 – Monitoring (Noise – Limits Apply)

EPL ID	Date	Start Time	Period	Measured Levels – dB(A) L _{eq 15min Day}	Measured Levels – dB(A) L _{eq 15min} Evening	Measure d Levels – dB(A) L _{eq 15min} Night	Measure d Levels – dB(A) L _{A 1min Night}	Limits	Wind speed/ direction	Compliant (Y/N)	Comments
		8:48 am	90min Day	Inaudible					3.1/69	Y	
	24/9/2013	8:44 pm	30min Evening		Inaudible				1.8/15	Y	
	25/9/2013	11:16 pm	60min Night			29			1.6/65	Y	
		11:16 pm	60min Night				37		1.6/65	Y	
		8:50 am	90min Day	Inaudible					2.5/305	Y	
N1	25/9/2013	9:20 pm	30min Evening		22			35 dB(A) Leq (15 min) Day, Evening, Night	2.6/174	Y	
	26/9/2013	10:14 pm	60min Night			22		45 dB(A) L _A (1min) Night	2.1/21	Y	
		10:14 pm	60min Night				25		2.1/21	Y	
		8:49 am	90min Day	Inaudible					2.3/183	Y	
	26/9/2013	6:43 pm	30min Evening		Inaudible				0.9/23	Υ	
	27/9/2013	10:14 pm	60min Night			Inaudible			1.9/43	Υ	
		10:14 pm	60min Night				Inaudible		1.9/43	Υ	
		7:14 am	90min Day	34					1.0/164	Υ	
	24/9/2013	9:29 pm	30min Evening		28				2.4/34	Y	
N2	25/9/2013	10:05 pm	60min Night			Inaudible		35 dB(A) Leq (15 min) Day, Evening, Night	1.5/91	Y	
"-		10:05 pm	60min Night				Inaudible		1.5/91	Y	
	25/9/2013	7:10 am	90min Day	33					1.0/255	Y	
	26/9/2013	8:48 pm	30min Evening		Inaudible				3.3/174	Y	



EPL ID	Date	Start Time	Period	Measured Levels – dB(A) L _{eq 15min Day}	Measured Levels – dB(A) Leq 15min Evening	Measure d Levels - dB(A) L _{eq 15min} Night	Measure d Levels – dB(A) L _{A 1min Night}	Limits	Wind speed/ direction	Compliant (Y/N)	Comments
		11:25 pm	60min Night			31			1.5/37	Υ	
		11:25 pm	60min Night				36		1.5/37	Υ	
		7:07 am	90min Day	Inaudible				45 dB(A) L _A (1min) Night	0.8/280	Υ	
	26/9/2013	6:03 pm	30min Evening		Inaudible				0.7/161	Υ	
	27/9/2013	10:06 pm	60min Night			Inaudible			0.2/231	Υ	
		10:06 pm	60min Night				Inaudible		0.2/231	Υ	

Table 5 – Monitoring (Blasts – Limits Apply)

EPL ID	Parameter	Units of Measure	Frequency	No. of Blasts for the Month	Average Value	Max Value	100%ile Limit	(Potential) Non-compliance /breach
BB1	Blast Noise	dB (Lin Peak)	Every Blast	3	DNT	DNT	120	No
PDI	Blast Vibration	mm/s	Every Blast	3	DNT	DNT	10	No
BB3	Blast Noise	dB (Lin Peak)	Every Blast	3	98.5	100.1	120	No
DB3	Blast Vibration	mm/s	Every Blast	3	0.22	0.26	10	No

DNT – Indicates the blast did not trigger a result at the monitor.





Figure 1 – EPL 12870 Monitoring Locations



Site Information

EPL No: 12870

EPA Website Link: http://www.epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=33011&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: October 2013

Publication Date: 18th November 2013 (re-published 29th July 2014)

Table 1 - No Pollutant Limits Apply

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Samples for the Month	Date(s) Sampled	Date Obtained	Min Value	Mean Value	Median Value	Max Value
4	Particulates- Deposited Matter	g/m²/month	Continuous	1	15/10/2013	23/10/2013	0.2	0.2	0.2	0.2
6	Particulates- Deposited Matter	g/m²/month	Continuous	1	15/10/2013	23/10/2013	1.1	1.1	1.1	1.1
7	Particulates- Deposited Matter	g/m²/month	Continuous	1	15/10/2013	23/10/2013	2.4	2.4	2.4	2.4
10	PM ₁₀	μg/m³	Every 6 days	5	Various	12/11/2013	11.2	19.7	14.8	33.6
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	-	-	-	-	-	-	-
	рН	рН	2**	-	-	-	-	-	-	-
	Total organic carbon	mg/L		-	-	-	-	-	-	-

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

^{*} 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.

Table 2 - Pollutant Limits Apply

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

^{**} 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
	Aluminum	mg/L		0	-	-	1	-	-	-
	Arsenic	mg/L		0	-	-	-	-	-	-
	Bicarbonate	mg/L	Voorly	0	-	-	-	-	-	-
16	Chloride	mg/L	Yearly	0	-	-	-	-	-	-
	Iron	mg/L		0	-	-	-	-	-	-
	Manganese	mg/L		0	-	-	-	-	-	-
	Sodium	mg/L		0	-	-	-	-	-	-
	Conductivity	μS/cm		0	-	-	-	-	-	-
	Oil & Grease	mg/L	O. combonly	0	-	-	-	-	-	-
16	рН	рН	Quarterly	0	-	-	-	-	-	-
	TOC	mg/L		0	-	-	-	-	-	-
	TSS	mg/L		0	-	-	-	-	-	-



Table 4 – Monitoring (Noise – Limits Apply)

EPL ID	Date	Start Time	Period	Measured Levels – dB(A) L _{eq 15min Day}	Measured Levels – dB(A) Leq 15min Evening	Measure d Levels - dB(A) L _{eq 15min} Night	Measure d Levels – dB(A) L _{A 1min Night}	Limits	Wind speed/ direction	Compliant (Y/N)	Comments
			90min Day								No monitoring for month
			30min Evening								No monitoring for month
			60min Night								No monitoring for month
			60min Night								No monitoring for month
			90min Day								No monitoring for month
N1			30min Evening					35 dB(A) Leq (15 min) Day, Evening, Night			No monitoring for month
			60min Night					45 dB(A) L _A (1min) Night			No monitoring for month
			60min Night								No monitoring for month
			90min Day								No monitoring for month
			30min Evening								No monitoring for month
			60min Night								No monitoring for month
			60min Night								No monitoring for month
			90min Day								No monitoring for month
			30min Evening								No monitoring for month
N2			60min Night					35 dB(A) Leq (15 min) Day, Evening, Night			No monitoring for month
144			60min Night								No monitoring for month
			90min Day								No monitoring for month
			30min Evening								No monitoring for month



EPL ID	Date	Start Time	Period	Measured Levels – dB(A) L _{eq 15min Day}	Measured Levels – dB(A) Leq 15min Evening	Measure d Levels – dB(A) L _{eq 15min} Night	Measure d Levels – dB(A) L _{A 1min Night}	Limits	Wind speed/ direction	Compliant (Y/N)	Comments
			60min Night								No monitoring for month
			60min Night								No monitoring for month
			90min Day					45 dB(A) L _A (1min) Night			No monitoring for month
			30min Evening								No monitoring for month
			60min Night								No monitoring for month
			60min Night								No monitoring for month

Table 5 – Monitoring (Blasts – Limits Apply)

EPL ID	Parameter	Units of Measure	Frequency	No. of Blasts for the Month	Average Value	Max Value	100%ile Limit	(Potential) Non-compliance /breach
BB1	Blast Noise	dB (Lin Peak)	Every Blast	5	95.2	95.2	120	No
PDI	Blast Vibration	mm/s	Every Blast	5	0.43	0.43	10	No
DD2	Blast Noise	dB (Lin Peak)	Every Blast	5	103.4	104.3	120	No
BB3	Blast Vibration	mm/s	Every Blast	5	0.45	0.69	10	No

DNT – Indicates the blast did not trigger a result at the monitor.





Figure 1 – EPL 12870 Monitoring Locations



Site Information

EPL No: 12870

EPA Website Link: http://www.epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=33011&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: November 2013

Publication Date: 19th December 2013 (re-published 29th July 2014)

Table 1 - No Pollutant Limits Apply

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Samples for the Month	Date(s) Sampled	Date Obtained	Min Value	Mean Value	Median Value	Max Value
4	Particulates- Deposited Matter	g/m²/month	Continuous	1	14/11/2013	25/11/2013	1.4	1.4	1.4	1.4
6	Particulates- Deposited Matter	g/m²/month	Continuous	1	14/11/2013	25/11/2013	1.1	1.1	1.1	1.1
7	Particulates- Deposited Matter	g/m²/month	Continuous	1	14/11/2013	25/11/2013	0.8	0.8	0.8	0.8
10	PM ₁₀	μg/m³	Every 6 days	2	5,11/11/2013	13/12/2013	16.4	18.9	17.6	21.5
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	-	-	-	-	-	-	-
	рН	рН	2**	-	-	-	-	-	-	-
	Total organic carbon	mg/L		-	-	-	-	-	-	-

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

^{*} 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.

Table 2 - Pollutant Limits Apply

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

^{**} 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
	Aluminum	mg/L		1	7/11/2013	14/11/2013	0.44	0.44	0.44	0.44
	Arsenic	mg/L		1	7/11/2013	14/11/2013	0.011	0.011	0.011	0.011
	Bicarbonate	mg/L	Yearly	1	7/11/2013	14/11/2013	252	252	252	252
16	Chloride	mg/L	rearry	1	7/11/2013	14/11/2013	318	318	318	318
	Iron	mg/L		1	7/11/2013	14/11/2013	0.22	0.22	0.22	0.22
	Manganese	mg/L		1	7/11/2013	14/11/2013	0.018	0.018	0.018	0.018
	Sodium	mg/L		1	7/11/2013	14/11/2013	439	439	439	439
	Conductivity	μS/cm		1	7/11/2013	14/11/2013	2160	2160	2160	2160
	Oil & Grease	mg/L	O. comboul.	1	7/11/2013	14/11/2013	<5	<5	<5	<5
16	рН	рН	Quarterly	1	7/11/2013	14/11/2013	9.13	9.13	9.13	9.13
	TOC	mg/L		1	7/11/2013	14/11/2013	9	9	9	9
	TSS	mg/L		1	7/11/2013	14/11/2013	14	14	14	14



Table 4 – Monitoring (Noise – Limits Apply)

EPL ID	Date	Start Time	Period	Measured Levels – dB(A) L _{eq 15min Day}	Measured Levels - dB(A) L _{eq 15min} Evening	Measure d Levels - dB(A) L _{eq 15min} Night	Measure d Levels - dB(A) LA 1min Night	Limits	Wind speed/ direction	Compliant (Y/N)	Comments
			90min Day								No monitoring for month
			30min Evening								No monitoring for month
			60min Night								No monitoring for month
			60min Night								No monitoring for month
			90min Day								No monitoring for month
N1			30min Evening					35 dB(A) Leq (15 min) Day, Evening, Night			No monitoring for month
INI			60min Night					45 dB(A) L _A (1min) Night			No monitoring for month
			60min Night								No monitoring for month
			90min Day								No monitoring for month
			30min Evening								No monitoring for month
			60min Night								No monitoring for month
			60min Night								No monitoring for month
			90min Day								No monitoring for month
Na			30min Evening								No monitoring for month
N2			60min Night					35 dB(A) Leq (15 min) Day, Evening, Night			No monitoring for month
			60min Night								No monitoring for month



EPL ID	Date	Start Time	Period	Measured Levels – dB(A) L _{eq 15min Day}	Measured Levels – dB(A) Leq 15min Evening	Measure d Levels – dB(A) L _{eq 15min}	Measure d Levels – dB(A) L _{A 1min Night}	Limits	Wind speed/ direction	Compliant (Y/N)	Comments
			90min Day								No monitoring for month
			30min Evening								No monitoring for month
			60min Night								No monitoring for month
			60min Night								No monitoring for month
			90min Day					45 dB(A) L _A (1min) Night			No monitoring for month
			30min Evening								No monitoring for month
			60min Night								No monitoring for month
			60min Night								No monitoring for month

Table 5 – Monitoring (Blasts – Limits Apply)

EPL ID	Parameter	Units of Measure	Frequency	No. of Blasts for the Month	Average Value	Max Value	100%ile Limit	(Potential) Non-compliance /breach
BB1	Blast Noise	dB (Lin Peak)	Every Blast	4	101.6	101.6	120	No
PDI	Blast Vibration	mm/s	Every Blast	4	0.26	0.26	10	No
BB3	Blast Noise	dB (Lin Peak)	Every Blast	4	99.9	105	120	No
DB3	Blast Vibration	mm/s	Every Blast	4	0.29	0.34	10	No

DNT – Indicates the blast did not trigger a result at the monitor.







Figure 1 – EPL 12870 Monitoring Locations



Site Information

EPL No: 12870

EPA Website Link: http://www.epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=33011&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: December 2013

Publication Date: 16th January 2014 (re-published 29th July 2014)

Table 1 - No Pollutant Limits Apply

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Samples for the Month	Date(s) Sampled	Date Obtained	Min Value	Mean Value	Median Value	Max or Only Value
4	Particulates- Deposited Matter	g/m²/month	Continuous	1	16/12/2013	30/12/2013	-	-	-	3.0
6	Particulates- Deposited Matter	g/m²/month	Continuous	1	16/12/2013	30/12/2013	-	-	-	2.8
7	Particulates- Deposited Matter	g/m²/month	Continuous	1	16/12/2013	30/12/2013	-	-	-	1.0
10	PM ₁₀	μg/m³	Every 6 days	5	Various	15/1/2014	5.8	14.2	11.3	26.4
11	Conductivity	μS/cm	Special	-	-	-	-	-	-	-
11	Total organic carbon	mg/L	Frequency 1*	-	-	-	-	1	-	-
12	Conductivity	μS/cm	Special	-	-	-	-	1	-	-
12	Total organic carbon	mg/L	Frequency 1*	-	-	-	-	1	-	-
	TSS	mg/L		-	-	-	-	1	-	-
	Conductivity	μS/cm	Special	-	-	-	-	-	-	-
13	Oil & Grease	mg/L	Frequency 2**	-	-	-	-	-	-	-
	рН	рН		-	-	-	-	1	-	-
	Total organic carbon	mg/L		-	-	-	-	-	-	-

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

^{*} 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.

Table 2 - Pollutant Limits Apply

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

^{**} 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
	Aluminum	mg/L		0	1	-	1	-	-	1
	Arsenic	mg/L	Yearly	0	1	-	1	-	-	1
	Bicarbonate	mg/L		0	-	-	-	-	-	-
16	Chloride	mg/L		0	-	-	-	-	-	-
	Iron	mg/L		0	-	-	-	-	-	-
	Manganese	mg/L		0	-	-	-	-	-	-
	Sodium	mg/L		0	-	-	-	-	-	-
	Conductivity	ms/cm	Quarterly	0	-	-	-	-	-	-
	Oil & Grease	μS/cm		0	-	-	-	-	-	-
16	рН	рН		0	-	-	-	-	-	-
	TOC	mg/L		0	-	-	-	-	-	-
	TSS	mg/L		0	ı	-	1	-	-	-



Table 4 – Monitoring (Noise – Limits Apply)

EPL ID	Date	Start Time	Period	Measured Levels – dB(A) L _{eq 15min Day}	Measured Levels – dB(A) L _{eq 15min}	Measure d Levels – dB(A) L _{eq 15min}	Measure d Levels – dB(A) L _{A 1min Night}	Limits	Wind speed/ direction	Compliant (Y/N)	Comments
		9:15am	90min	Inaudible	Evening	Night			1.4m/s,	Y	
				maddible					WNW		
	4/12/13	9:20pm	30min		Inaudible				2.2m/s, NW	Y	
		11:17pm	60min			Inaudible			1.8m/s, N	Y	
		11:17pm	60min				Inaudible		1.8m/s, N	Υ	
		10:20am	90min	<30				35 dB(A) Leq (15 min) Day,	1.8m/s, N	Υ	
N1	5/12/13	9:18pm	30min		24			Evening, Night	0.7m/s, S	Υ	
	3/12/13	11:13pm	60min			24		45 dB(A) L _A (1min) Night	0.9m/s, NNE	Υ	
		11:13pm	60min				30		0.9m/s, NNE	Υ	
	6/12/13	8:57am	90min	<25					5.7m/s, SW	Υ	
		9:17pm	30min		20				2.7m/s, SSE	Υ	
		11:24pm	60min			<20			0.9m/s, NE	Υ	
		11:24pm	60min				<25		0.9m/s, NE	Υ	
		7:25am	90min	28					0.8m/s, W	Υ	
	4/12/13	8:40pm	30min		Inaudible				2.2m/s, NNW	Υ	
	4/12/13	10:10pm	60min			31			1.8m/s, N	Υ	
		10:10pm	60min				35		1.8m/s, N	Υ	
		7:32am	90min	33					3.2m/s, NW	Υ	
NO	5/12/13	8:33pm	30min		Inaudible			35 dB(A) Leq (15 min) Day,	1.7m/s, S	Υ	
N2	5/12/13	10:00pm	60min			Inaudible		Evening, Night	0.5m/s, S	Υ	
		10:00pm	60min				Inaudible	45 dB(A) L _A (1min) Night	0.5m/s, S	Υ	
		7:09am	90min	<25				- (/ 6(/ 7000	2.2m/s, W	Υ	
	6/42/42	8:34pm	30min		Inaudible				2.2m/s, SSE	Υ	
	6/12/13	10:02pm	60min			<20			1.2m/s, E	Υ	
		10:02pm	60min				<25		1.2m/s, E	Υ	



Table 5 – Monitoring (Blasts – Limits Apply)

EPL ID	Parameter	Units of Measure	Frequency	No. of Blasts for the Month	Average Value	Max Value	100%ile Limit	(Potential) Non-compliance /breach
BB1	Blast Noise	dB (Lin Peak)	Every Blast	3	DNT	DNT	120	No
DDI	Blast Vibration	mm/s	Every Blast	3	DNT	DNT	10	No
DDO	Blast Noise	dB (Lin Peak)	Every Blast	3	DNT	DNT	120	No
BB3	Blast Vibration	mm/s	Every Blast	3	DNT	DNT	10	No

DNT – Indicates the blast did not trigger a result at the monitor.





Figure 1 – EPL 12870 Monitoring Locations