



# WHITEHAVEN COAL

## WHITEHAVEN CHPP – MONTHLY MONITORING SUMMARY

### Site Information

EPL No: 3637

EPA Website Link: <http://www.environment.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=29173&SYSUID=1&LICID=3637>

Licensee: Whitehaven Coal Mining Limited

Licensee Address: Boggabri Road, Gunnedah NSW 2380

EPL Monitoring Points: See Figure 1 below

Sampling Period: September 2012

Publication Date: 23<sup>rd</sup> October 2012

**Table 1 - No Pollutant Limits Apply**

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Measurements for the Month	Date Sampled	Date Obtained	Min Value	Mean Value	Median Value	Max or Only Value
1	Solid Particles	g/m <sup>2</sup> /month	Continuous	1	19/9/12	2/10/12	-	-	-	2.4
2	Solid Particles	g/m <sup>2</sup> /month	Continuous	1	19/9/12	2/10/12	-	-	-	0.6
3	Solid Particles	g/m <sup>2</sup> /month	Continuous	1	19/9/12	2/10/12	-	-	-	1.3
4	Solid Particles	g/m <sup>2</sup> /month	Continuous	1	19/9/12	2/10/12	-	-	-	1.2
5	Solid Particles	g/m <sup>2</sup> /month	Continuous	1	19/9/12	2/10/12	-	-	-	NR*
	PM <sub>10</sub>	µg/m <sup>3</sup>	Every 6 days	5	Various	16/10/12	8.8	24.26	28.1	37.7
6	Conductivity	ms/cm	Each overflow event	0	-	-	-	-	-	-
	Oil and Grease	mg/L		0	-	-	-	-	-	-
	Total Organic Carbon	mg/L		0	-	-	-	-	-	-
	Total Suspended Solids	mg/L		0	-	-	-	-	-	-
	pH	pH		0	-	-	-	-	-	-
7	Conductivity	ms/cm	Quarterly	0	-	-	-	-	-	-
	Oil and Grease	mg/L		0	-	-	-	-	-	-
	Total Organic Carbon	mg/L		0	-	-	-	-	-	-
	Total Suspended Solids	mg/L		0	-	-	-	-	-	-
	pH	pH		0	-	-	-	-	-	-

\* Laboratory unable to analyse due to excessive contamination (bird droppings). EPA notified.



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**Table 2 – Monitoring (Quarterly – No Limits apply)**

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Samples for the Period	Date Sampled	Date Obtained	Min Value	Mean Value	Median Value	Max or Only Value
8	Ammonia	mg/L	Quarterly	1	19/9/12	27/9/12	-	-	-	<0.01
	Bicarbonate	mg/L		1	19/9/12	27/9/12	-	-	-	1300
	Calcium	mg/L		1	19/9/12	27/9/12	-	-	-	27
	Chloride	mg/L		1	19/9/12	27/9/12	-	-	-	1350
	Conductivity	µs/cm		1	19/9/12	27/9/12	-	-	-	7020
	Lead	mg/L		1	19/9/12	27/9/12	-	-	-	0.005
	Magnesium	mg/L		1	19/9/12	27/9/12	-	-	-	97
	Nitrate	mg/L		1	19/9/12	27/9/12	-	-	-	0.23
	Potassium	mg/L		1	19/9/12	27/9/12	-	-	-	20
	Sodium	mg/L		1	19/9/12	27/9/12	-	-	-	1450
	Standing Water Level	m		1	19/9/12	27/9/12	-	-	-	6.04
	Sulphate	mg/L		1	19/9/12	27/9/12	-	-	-	613
pH	pH	1	19/9/12	27/9/12	-	-	-	7.82		
9	Ammonia	mg/L	Quarterly	1	19/9/12	27/9/12	-	-	-	<0.01
	Bicarbonate	mg/L		1	19/9/12	27/9/12	-	-	-	837
	Calcium	mg/L		1	19/9/12	27/9/12	-	-	-	259
	Chloride	mg/L		1	19/9/12	27/9/12	-	-	-	1330
	Conductivity	µs/cm		1	19/9/12	27/9/12	-	-	-	6180
	Lead	mg/L		1	19/9/12	27/9/12	-	-	-	0.007
	Magnesium	mg/L		1	19/9/12	27/9/12	-	-	-	232
	Nitrate	mg/L		1	19/9/12	27/9/12	-	-	-	0.03
	Potassium	mg/L		1	19/9/12	27/9/12	-	-	-	115
	Sodium	mg/L		1	19/9/12	27/9/12	-	-	-	719
	Standing Water Level	m		1	19/9/12	27/9/12	-	-	-	1.38
	Sulphate	mg/L		1	19/9/12	27/9/12	-	-	-	772
pH	pH	1	19/9/12	27/9/12	-	-	-	7.13		



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10	Ammonia	mg/L	Quarterly	1	19/9/12	27/9/12	-	-	-	<0.01
	Bicarbonate	mg/L		1	19/9/12	27/9/12	-	-	-	696
	Calcium	mg/L		1	19/9/12	27/9/12	-	-	-	203
	Chloride	mg/L		1	19/9/12	27/9/12	-	-	-	1610
	Conductivity	µs/cm		1	19/9/12	27/9/12	-	-	-	6010
	Lead	mg/L		1	19/9/12	27/9/12	-	-	-	0.005
	Magnesium	mg/L		1	19/9/12	27/9/12	-	-	-	209
	Nitrate	mg/L		1	19/9/12	27/9/12	-	-	-	12.8
	Potassium	mg/L		1	19/9/12	27/9/12	-	-	-	61
	Sodium	mg/L		1	19/9/12	27/9/12	-	-	-	741
	Standing Water Level	m		1	19/9/12	27/9/12	-	-	-	0.8
	Sulphate	mg/L		1	19/9/12	27/9/12	-	-	-	269
	pH	pH		1	19/9/12	27/9/12	-	-	-	7.52

**Table 3 – Monitoring (Quarterly Noise – Limits Apply)**

EPL ID	Date	Start Time	Measurement Period	Measured levels – All sources – dB(A)		Limit(s)	Weather	Observations	(Potential) Non-compliance /breach
				L <sub>A1, 1</sub> Minute	L <sub>Aeq, 15</sub> Minute				
N1	-	-	-		-	Day - 38	-	No monitoring this month	-
	-	-	-		-	Evening - 37	-	No monitoring this month	-
	-	-	-		-	Night - 35	-	No monitoring this month	-
	-	-	-	-		Night - 45	-	No monitoring this month	-



**WHITEHAVEN CHPP – MONTHLY MONITORING SUMMARY**

Figure 1 – EPL 3637 Monitoring Locations

