



## WHITEHAVEN CHPP – MONTHLY MONITORING SUMMARY

### Site Information

EPL No: 3637

EPA Website Link: <http://www.epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=33514&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: March 2019

Obtained Date: 9<sup>th</sup> April 2019

Publication Date: 16<sup>th</sup> April 2019

**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
3	Solid Particles	g/m <sup>2</sup> /month	Continuous	1	18/12/18	08/03/19	-	-	-	1.2
11	PM <sub>10</sub>	µg/m <sup>3</sup>	Every 6 days	5	Various	09/03/19	12.1	21.88	27.4	29.7
12	PM <sub>10</sub>	µg/m <sup>3</sup>	Every 6 days	5	Various	06/02/19	9.4	15.48	16.3	22.5
6	Conductivity	ms/cm	Each overflow event	-	-	-	-	-	-	-
	Oil and Grease	mg/L		-	-	-	-	-	-	-
	Total Organic Carbon	mg/L		-	-	-	-	-	-	-
	Total Suspended Solids	mg/L		-	-	-	-	-	-	-
	pH	pH		-	-	-	-	-	-	-
7	Conductivity	ms/cm	Quarterly	-						
	Oil and Grease	mg/L		-						
	Total Organic Carbon	mg/L		-						
	Total Suspended Solids	mg/L		-						
	pH	pH		-						



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Table 2 – Groundwater 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			-	-	-	0.06
	Bicarbonate	mg/L					-	-	-	1290
	Calcium	mg/L					-	-	-	30
	Chloride	mg/L					-	-	-	1210
	Conductivity	µs/cm					-	-	-	8310
	Lead	mg/L					-	-	-	0.04
	Magnesium	mg/L					-	-	-	120
	Nitrate	mg/L					-	-	-	1.3
	Potassium	mg/L					-	-	-	17
	Sodium	mg/L					-	-	-	1670
	Standing Water Level	m					-	-	-	6.76
	Sulphate	mg/L					-	-	-	568
pH	pH	-	-	-	8.63					
9	Ammonia	mg/L	Quarterly	1			-	-	-	1.77
	Bicarbonate	mg/L					-	-	-	654
	Calcium	mg/L					-	-	-	233
	Chloride	mg/L					-	-	-	1060
	Conductivity	µs/cm					-	-	-	6620
	Lead	mg/L					-	-	-	0.001
	Magnesium	mg/L					-	-	-	233
	Nitrate	mg/L					-	-	-	1.18



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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
	Potassium	mg/L					-	-	-	120
	Sodium	mg/L					-	-	-	703
	Standing Water Level	m					-	-	-	2.04
	Sulphate	mg/L					-	-	-	589
	pH	pH					-	-	-	7.65
10	Ammonia	mg/L	Quarterly	1			-	-	-	0.04
	Bicarbonate	mg/L					-	-	-	656
	Calcium	mg/L					-	-	-	164
	Chloride	mg/L					-	-	-	1250
	Conductivity	µs/cm					-	-	-	6410
	Lead	mg/L					-	-	-	0.001
	Magnesium	mg/L					-	-	-	217
	Nitrate	mg/L					-	-	-	10.6
	Potassium	mg/L					-	-	-	62
	Sodium	mg/L					-	-	-	716
	Standing Water Level	m					-	-	-	0.85
	Sulphate	mg/L					-	-	-	289
	pH	pH					-	-	-	7.91

Table 3 – Monitoring (Quarterly Noise – Limits Apply)



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EPL ID	Date	Start Time	Measurement Period	Measured levels – CHPP – dB(A)		Limit(s)	Wind speed (m/s)	Observations	(Potential) Non-compliance /breach
				LA1, 1 minute	L <sub>Aeq</sub> , 15 minute				
N1			15 min		N/M	35dBA		Not available at time of publishing	
			15 min		I/A	35dBA			
			15 min		34	35dBA			
			1 min	45		45dBA			

*When site noise is noted as inaudible, no site noise was audible at the monitoring location. Not Measurable indicates that some site noise was audible, but indeterminate due to one of the following reasons:*

- *site noise levels were insignificant and unlikely, in many cases, to be even noticed; or*
- *site noise levels were masked by another relatively loud noise source, but were estimated to be less than L<sub>Aeq</sub> 30 dB, which is insignificant in terms of any applicable criterion.*



# WHITEHAVEN COAL

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Figure 1 – EPL 3637 Monitoring Locations

