



## 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: December 2018

Obtained Date: 11<sup>th</sup> January 2019

Publication Date: 14<sup>th</sup> January 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	16/10/18	18/12/18	-	-	-	4.0
11	PM <sub>10</sub>	µg/m <sup>3</sup>	Every 6 days	4	Various	5/12/18	23.3	66.34	29.7	219
12	PM <sub>10</sub>	µg/m <sup>3</sup>	Every 6 days	5	Various	11/01/19	14.8	51.82	18.1	183
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	0						
	Oil and Grease	mg/L		0						
	Total Organic Carbon	mg/L		0						
	Total Suspended Solids	mg/L		0						
	pH	pH		0						



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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	03/12/18	11/12/18	-	-	-	0.05
	Bicarbonate	mg/L					-	-	-	1,160
	Calcium	mg/L					-	-	-	27
	Chloride	mg/L					-	-	-	1,190
	Conductivity	µs/cm					-	-	-	6,780
	Lead	mg/L					-	-	-	0.001
	Magnesium	mg/L					-	-	-	110
	Nitrate	mg/L					-	-	-	1.28
	Potassium	mg/L					-	-	-	24
	Sodium	mg/L					-	-	-	1,590
	Standing Water Level	m					-	-	-	7.59
	Sulphate	mg/L					-	-	-	732
pH	pH	-	-	-	8.61					
9	Ammonia	mg/L	Quarterly	1	03/12/18	11/12/18	-	-	-	0.05
	Bicarbonate	mg/L					-	-	-	872
	Calcium	mg/L					-	-	-	240
	Chloride	mg/L					-	-	-	1,030
	Conductivity	µs/cm					-	-	-	4,800
	Lead	mg/L					-	-	-	<0.001
	Magnesium	mg/L					-	-	-	238
	Nitrate	mg/L					-	-	-	0.31



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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					-	-	-	137
	Sodium	mg/L					-	-	-	737
	Standing Water Level	m					-	-	-	1.76
	Sulphate	mg/L					-	-	-	675
	pH	pH					-	-	-	7.71
10	Ammonia	mg/L	Quarterly	1	03/12/18	11/12/18	-	-	-	0.04
	Bicarbonate	mg/L					-	-	-	642
	Calcium	mg/L					-	-	-	168
	Chloride	mg/L					-	-	-	1,230
	Conductivity	µs/cm					-	-	-	4,190
	Lead	mg/L					-	-	-	<0.001
	Magnesium	mg/L					-	-	-	222
	Nitrate	mg/L					-	-	-	11.4
	Potassium	mg/L					-	-	-	65
	Sodium	mg/L					-	-	-	773
	Standing Water Level	m					-	-	-	1.67
	Sulphate	mg/L					-	-	-	286
	pH	pH					-	-	-	8.06

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
				L <sub>A1</sub> , 1 minute	L <sub>Aeq</sub> , 15 minute				
N1	11/12/18	12:47	15 min		N/M	35dBA	5.1 m/s, ESE	Dozer operations barely audible, Birds 45-56; Traffic 45-50	None
	11/12/18	18:20	15 min		I/A	35dBA	8 m/s ESE	Wind 50-70; Birds 50-60, no audible site noise	
	11/12/18	22:24	15 min		34	35dBA	3.5 m/s ESE	Dozer Operation 33-37, Train horn 53, wind 40-45, traffic 45-50	
	11/12/18	22:24	1 min	45		45dBA	3.5 m/s ESE		

*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 LAeq 30 dB, which is insignificant in terms of any applicable criterion.*



# WHITEHAVEN COAL

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Figure 1 – EPL 3637 Monitoring Locations

