



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 2020

Obtained Date: 12 January 2021

Publication Date: 25 January 2021

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 ² /month	Continuous	1	17/12/20	4/01/21	-	-	-	1.6
11	PM ₁₀	µg/m ³	Every 6 days	5	Various	12/01/21	4.2	12.52	7.6	32.2
12	PM ₁₀	µg/m ³	Every 6 days	5	Various	12/01/21	2.6	12	8.3	24.2
6	Conductivity	µs/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	µs/cm	Quarterly	0	-	-	-	-	-	-
	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	3/12/2020	11/12/2020	-	-	-	0.02
	Bicarbonate	mg/L					-	-	-	1440
	Calcium	mg/L					-	-	-	62
	Chloride	mg/L					-	-	-	1890
	Conductivity	µs/cm					-	-	-	9930
	Lead	mg/L					-	-	-	0.139
	Magnesium	mg/L					-	-	-	188
	Nitrate	mg/L					-	-	-	0.11
	Potassium	mg/L					-	-	-	23
	Sodium	mg/L					-	-	-	2110
	Standing Water Level	m					-	-	-	8.77
	Sulphate	mg/L					-	-	-	1350
pH	pH	-	-	-	7.6					
9	Ammonia	mg/L	Quarterly	1	3/12/2020	11/12/2020	-	-	-	0.02
	Bicarbonate	mg/L					-	-	-	803
	Calcium	mg/L					-	-	-	186
	Chloride	mg/L					-	-	-	1180
	Conductivity	µs/cm					-	-	-	5650
	Lead	mg/L					-	-	-	<0.001
	Magnesium	mg/L					-	-	-	229
	Nitrate	mg/L					-	-	-	0.7



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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					-	-	-	115
	Sodium	mg/L					-	-	-	692
	Standing Water Level	m					-	-	-	2.43
	Sulphate	mg/L					-	-	-	714
	pH	pH					-	-	-	7.4
10	Ammonia	mg/L	Quarterly	1	3/12/2020	11/12/2020	-	-	-	0.36
	Bicarbonate	mg/L					-	-	-	786
	Calcium	mg/L					-	-	-	195
	Chloride	mg/L					-	-	-	1400
	Conductivity	µs/cm					-	-	-	5830
	Lead	mg/L					-	-	-	0.001
	Magnesium	mg/L					-	-	-	218
	Nitrate	mg/L					-	-	-	4.42
	Potassium	mg/L					-	-	-	61
	Sodium	mg/L					-	-	-	715
	Standing Water Level	m					-	-	-	2.15
	Sulphate	mg/L					-	-	-	268
	pH	pH					-	-	-	7.6



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Table 3 – Monitoring (Quarterly Noise – Limits Apply)

EPL ID	Date	Measurement Period	Measured levels – CHPP – dB(A)		Limit(s)- dB(A)	Wind speed (m/s)	Observations	(Potential) Non-compliance /breach
			L _{A1} , 1 minute	L _{Aeq} , 15 minute				
N1		15 mins day	-					
		15 mins evening	-					
		15 mins night	-					
		1 min night		-				

Notes:

dB(A): The overall level of a sound is usually expressed in terms of dBA, which is measured using a sound level meter with an “A-weighting” filter. This is an electronic filter having a frequency response corresponding approximately to that of human hearing.

L_{Aeq}, 15 minute: The A-weighted equivalent noise level (basically the average noise level). It is defined as the steady sound level that contains the same amount of acoustical energy as the corresponding time-varying sound, in this instance over a period of 15 minutes.

L_{A1}, 1 minute: The noise level exceeded for 1% of the 15 minute interval.

I/A: When site noise is noted as inaudible (I/A), no site noise was audible at the monitoring location.

Not Measurable (NM): 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_{Aeq} 30 dB, which is insignificant in terms of any applicable criterion.



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Figure 1 – EPL 3637 Monitoring Locations

