



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: June 2021

Obtained Date: 23 July 2021 (noise monitoring data received)

Publication Date: 28 July 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	16/06/21	6/07/21	-	-	-	0.1
11	PM ₁₀	µg/m ³	Every 6 days	5	Various	8/07/21	0.6	11.4	2.4	44
12	PM ₁₀	µg/m ³	Every 6 days	5	Various	8/07/21	1.1	6.2	2.5	19.1
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	7/06/21	16/06/21	-	-	-	1.38
	Bicarbonate	mg/L					-	-	-	1340
	Calcium	mg/L					-	-	-	61
	Chloride	mg/L					-	-	-	2250
	Conductivity	µs/cm					-	-	-	9520
	Lead	mg/L					-	-	-	0.003
	Magnesium	mg/L					-	-	-	199
	Nitrate	mg/L					-	-	-	0.73
	Potassium	mg/L					-	-	-	28
	Sodium	mg/L					-	-	-	2160
	Standing Water Level	m					-	-	-	8.48
	Sulphate	mg/L					-	-	-	1360
pH	pH	-	-	-	7.7					
9	Ammonia	mg/L	Quarterly	1	7/06/21	16/06/21	-	-	-	0.06
	Bicarbonate	mg/L					-	-	-	705
	Calcium	mg/L					-	-	-	185
	Chloride	mg/L					-	-	-	1170
	Conductivity	µs/cm					-	-	-	5640
	Lead	mg/L					-	-	-	0.001
	Magnesium	mg/L					-	-	-	240
	Nitrate	mg/L					-	-	-	2.62



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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					-	-	-	131
	Sodium	mg/L					-	-	-	717
	Standing Water Level	M					-	-	-	1.80
	Sulphate	mg/L					-	-	-	721
	pH	pH					-	-	-	7.6
10	Ammonia	mg/L	Quarterly	1	7/06/21	16/06/21	-	-	-	5.86
	Bicarbonate	mg/L					-	-	-	816
	Calcium	mg/L					-	-	-	200
	Chloride	mg/L					-	-	-	1420
	Conductivity	µs/cm					-	-	-	5610
	Lead	mg/L					-	-	-	0.002
	Magnesium	mg/L					-	-	-	224
	Nitrate	mg/L					-	-	-	<0.01
	Potassium	mg/L					-	-	-	68
	Sodium	mg/L					-	-	-	721
	Standing Water Level	m					-	-	-	1.61
	Sulphate	mg/L					-	-	-	246
	pH	pH					-	-	-	7.5

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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
			LA1, 1 minute	LAeq, 15 minute				
N1	26/06/21	15 mins day	-	I/A	35	1.8 m/s ESE	-	No
		15 mins evening	-	NM	35	0.6 m/s ENE		
		15 mins night	-	32	35	1.6 m/s E		
		1 min night	38	-	45	1.6 m/s E		

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.

LAeq, 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.

LA1, 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 LAeq 30 dB, which is insignificant in terms of any applicable criterion.



WHITEHAVEN COAL

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Figure 1 – EPL 3637 Monitoring Locations

