



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 2023

Obtained Date: 13th July 2023

Publication Date: 17th July 2023

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	22/06/2023	05/07/2023	-	-	-	0.10
11	PM ₁₀ Kendo	µg/m ³	Every 6 days	5	04/06/2023 10/06/2023 16/06/2023 22/06/2023 28/06/2023	13/07/2023 (Last sampled received)	3.3	7.6	8.5	12.8
12	PM ₁₀ Olive View	µg/m ³	Every 6 days	5	04/06/2023 10/06/2023 16/06/2023 22/06/2023 28/06/2023	13/07/2023 (Last sampled received)	4.3	9.2	6.4	22.7
6	Conductivity	µs/cm	Each overflow event	0	-	-	-	-	-	-
	Oil and Grease	mg/L					-	-	-	-
	Total Organic Carbon	mg/L					-	-	-	-
	Total Suspended Solids	mg/L					-	-	-	-
	pH	pH					-	-	-	-
7	Conductivity	µs/cm	Quarterly	0	-	-	-	-	-	-
	Oil and Grease	mg/L					-	-	-	-
	Total Organic Carbon	mg/L					-	-	-	-



WHITEHAVEN CHPP – MONTHLY MONITORING SUMMARY

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
	Total Suspended Solids	mg/L					-	-	-	-
	pH	pH					-	-	-	-

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 (P1)	1	23/06/2023	30/06/2023	-	-	-	0.05
	Bicarbonate	mg/L					-	-	-	1260
	Calcium	mg/L					-	-	-	64
	Chloride	mg/L					-	-	-	2160
	Conductivity	µs/cm					-	-	-	8540
	Lead	mg/L					-	-	-	0.001
	Magnesium	mg/L					-	-	-	204
	Nitrate	mg/L					-	-	-	0.26
	Potassium	mg/L					-	-	-	28
	Sodium	mg/L					-	-	-	2320
	Standing Water Level	m					-	-	-	5.81
	Sulphate	mg/L					-	-	-	1610
pH	pH	-	-	-	7.5					
9	Ammonia	mg/L	Quarterly (P2)	1	23/06/2023	30/06/2023	-	-	-	<0.01
	Bicarbonate	mg/L					-	-	-	835
	Calcium	mg/L					-	-	-	277
	Chloride	mg/L					-	-	-	1160



WHITEHAVEN CHPP – MONTHLY MONITORING SUMMARY

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
	Conductivity	µs/cm					-	-	-	4940
	Lead	mg/L					-	-	-	<0.001
	Magnesium	mg/L					-	-	-	250
	Nitrate	mg/L					-	-	-	3.54
	Potassium	mg/L					-	-	-	135
	Sodium	mg/L					-	-	-	758
	Standing Water Level	m					-	-	-	1.48
	Sulphate	mg/L					-	-	-	675
	pH	pH					-	-	-	7.5
10	Ammonia	mg/L	Quarterly (P3)	1	23/06/2023	30/06/2023	-	-	-	<0.01
	Bicarbonate	mg/L					-	-	-	699
	Calcium	mg/L					-	-	-	217
	Chloride	mg/L					-	-	-	1410
	Conductivity	µs/cm					-	-	-	4830
	Lead	mg/L					-	-	-	<0.001
	Magnesium	mg/L					-	-	-	222
	Nitrate	mg/L					-	-	-	53.6
	Potassium	mg/L					-	-	-	62
	Sodium	mg/L					-	-	-	708
	Standing Water Level	m					-	-	-	0.96
	Sulphate	mg/L					-	-	-	302
	pH	pH					-	-	-	7.6



WHITEHAVEN CHPP – MONTHLY MONITORING SUMMARY

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	19/06/2023	15 mins day	-	N/M	35	1.1m/s WNW	Dozer operation barely audible, traffic, birds, animals, & train	No
	19/06/2023	15 mins evening	-	25	35	Calm	Dozer operation, aircraft, animals, & traffic	
		15 mins night	-	N/M	35	Calm	Dozer operation barely audible, traffic, animals, & plane	
		1 min night	N/M	-	45	Calm		

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 CHPP – MONTHLY MONITORING SUMMARY



	<p>Figure 1 Gunnedah CHPP EPL3637 Monitoring Locations</p>	<p>0 250 500 Meters</p>
<p>Datum MGA2020 Zone 56 Author O.Hulbert Image Nov-22 Date Jan-23 Size/Scale 1:13000</p>		<p>● CHPP_EPL_Sites_Feb23</p>