

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: January 2023

Obtained Date: 21st February 2023

Publication Date: 22nd February 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/m²/month	Continuous	1	16/01/2023	13/02/2023	-	-	-	1.2
11	PM ₁₀ Kendo	μg/m³	Every 6 days	5	5/01/2023 11/01/2023 17/01/2023 23/01/2023 29/01/2023	21/02/2023 (Last sampled received)	6.8	8.1	7.3	10.7
12	PM ₁₀ Olive View	μg/m³	Every 6 days	5	5/01/2023 11/01/2023 17/01/2023 23/01/2023 29/01/2023	21/02/2023 (Last sampled received)	5	7.5	7.7	10.2
	Conductivity	μs/cm			-	-	1	-	1	-
	Oil and Grease	mg/L	Fack averflow				1	-	1	-
6	Total Organic Carbon	mg/L	Each overflow event	0			1	-	1	-
	Total Suspended Solids	mg/L	event				ı	-	1	-
	рН	рН					ı	-	1	-
	Conductivity	μs/cm			-	-	1	-	ı	-
7	Oil and Grease	mg/L	Quarterly	0			-	-	-	-
	Total Organic Carbon	mg/L					-	-	-	-



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					-	-	-	-
	рН	рН					ı	-	-	-

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
	Ammonia	mg/L			-	-	-	-	-	-
	Bicarbonate	mg/L					-	-	-	-
	Calcium	mg/L		0			-	-	-	-
	Chloride	mg/L					-	-	-	-
	Conductivity	μs/cm					-	-	-	-
	Lead	mg/L					-	-	-	-
8	Magnesium	mg/L	Quarterly				-	-	-	-
	Nitrate	mg/L	,				-	-	-	-
	Potassium	mg/L					-	-	-	-
	Sodium	mg/L					-	-	-	-
	Standing Water Level	m					-	-	-	-
	Sulphate	mg/L					-	-	-	-
	рН	рН					-	-	-	-
	Ammonia	mg/L			-	-	-	-	-	-
9	Bicarbonate	mg/L	Quarterly				-	-	-	-
<u>ש</u>	Calcium	mg/L	Quarterry	0			-	-	-	-
	Chloride	mg/L					-	-	-	-



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					-	-	-	-
	Lead	mg/L					-	-	-	-
	Magnesium	mg/L					-	-	-	-
	Nitrate	mg/L					-	-	-	-
	Potassium	mg/L					-	-	-	-
	Sodium	mg/L					-	-	-	-
	Standing Water Level	m					-	-	-	-
	Sulphate	mg/L					-	-	-	-
	рН	рН					-	-	-	-
	Ammonia	mg/L			-	-	-	-	-	-
	Bicarbonate	mg/L					-	-	-	-
	Calcium	mg/L		0			-	-	-	-
	Chloride	mg/L					-	-	-	-
	Conductivity	μs/cm					-	-	-	-
	Lead	mg/L					-	-	-	-
10	Magnesium	mg/L	Quartarly				-	-	-	-
10	Nitrate	mg/L	Quarterly				-	-	-	-
	Potassium	mg/L					-	-	-	-
	Sodium	mg/L					-	-	-	-
	Standing Water Level	m					-	-	-	-
	Sulphate	mg/L					-	-	-	-
	рН	рН					-	-	-	-



Table 3 – Monitoring (Quarterly Noise – Limits Apply)

EPL ID	Date	Measurement Period	Measured levels – CHPP – dB(A) La1, 1 Laeq, 15 minute minute		Limit(s)- dB(A)	Wind speed (m/s)	Observations	(Potential) Non- compliance /breach
		15 mins day	-	-	-	-	-	
N1	-	15 mins evening	-	1	-	-	-	
141		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.

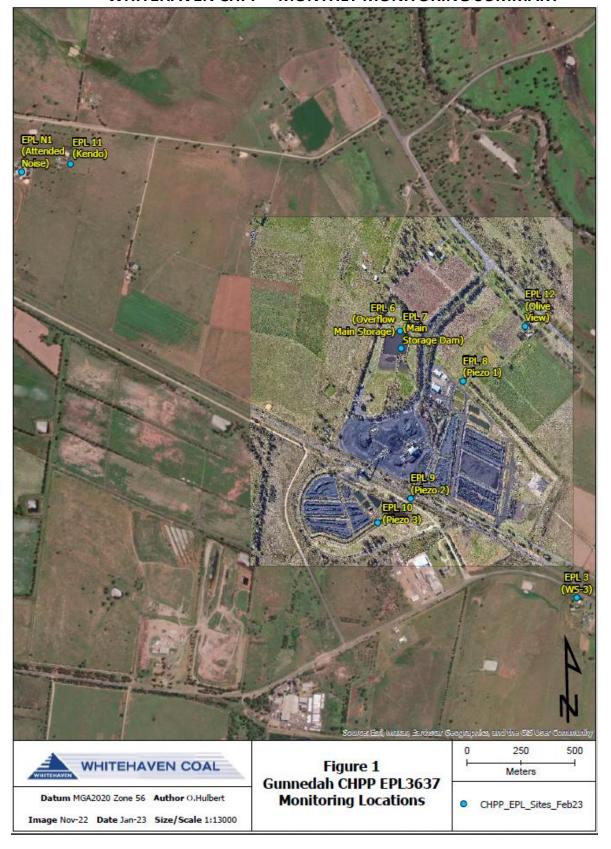
I/A: When site noise is noted as inaudible (I/A), no site noise was audible at the monitoring location.

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



WHITEHAVEN COAL





Site Information

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Licensee: Whitehaven Coal Mining Limited

Licensee Address: Boggabri Road, Gunnedah NSW 2380

EPL Monitoring Points: See Figure 1 below

Sampling Period: February 2023 Obtained Date: 17th March 2023

Original Publication Date: 17th March 2023

Date of re-publishing with correction log: 9th May 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/m²/month	Continuous	1	16/02/2023	17/03/2023	-	-	-	0.5
11	PM ₁₀ Kendo	μg/m³	Every 6 days	5	4/02/2023 10/02/2023 16/02/2023 22/02/2023 28/02/2023	15/03/2023 (Last sampled received)	7.3	20.43	11.1	62.4
12	PM ₁₀ Olive View	μg/m³	Every 6 days	5	4/02/2023 10/02/2023 16/02/2023 22/02/2023 28/02/2023	15/03/2023 (Last sampled received)	7.2	11.5	8.8	19.3
	Conductivity	μs/cm			-	-	-	-	-	-
	Oil and Grease	mg/L	Each overflow				-	-	-	-
6	Total Organic Carbon	mg/L		0			1	-	-	-
	Total Suspended Solids	mg/L	event				1	-	-	-
	рН	рН					1	-	-	-
7	Conductivity	μs/cm	Quarterly				1	-	-	1,060



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
	Oil and Grease	mg/L		1	9/02/2023	16/02/2023	-	-	-	<5
	Total Organic Carbon	mg/L					-	-	-	6
	Total Suspended Solids	mg/L					ı	-	1	39
	рН	рН					-	-	-	8.35

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
	Ammonia	mg/L					-	-	-	0.13
	Bicarbonate	mg/L					-	-	-	1,300
	Calcium	mg/L		1	28/02/2023	07/03/2023	-	-	-	61
	Chloride	mg/L					-	-	-	2,160
	Conductivity	μs/cm					-	-	-	10,300
	Lead	mg/L					-	-	-	<0.001
8	Magnesium	mg/L	Quarterly				-	-	-	187
•	Nitrate	mg/L	(P1)				-	-	-	0.14
	Potassium	mg/L					-	-	-	25
	Sodium	mg/L					-	-	-	2,150
	Standing Water Level	m					-	-	-	5.41
	Sulphate	mg/L					-	-	-	1,420
	рН	рН					-	-	-	7.3
9	Ammonia	mg/L	Quarterly				-	-	-	3.05
9	Bicarbonate	mg/L	(P2)				-	-	-	916



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
	Calcium	mg/L		1	28/02/2023	07/03/2023	-	-	-	270
	Chloride	mg/L					-	-	-	1,120
	Conductivity	μs/cm					-	-	-	6,000
	Lead	mg/L					-	-	-	< 0.001
	Magnesium	mg/L					-	-	-	224
	Nitrate	mg/L					-	-	-	<0.01
	Potassium	mg/L					-	-	-	119
	Sodium	mg/L					-	-	-	698
	Standing Water Level	m					-	-	-	1.86
	Sulphate	mg/L					-	-	-	610
	рН	рН					-	-	-	7.1
	Ammonia	mg/L					-	-	-	0.02
	Bicarbonate	mg/L					-	-	-	746
	Calcium	mg/L		1	28/02/2023	07/03/2023	-	-	-	231
	Chloride	mg/L					-	-	-	1,380
	Conductivity	μs/cm					-	-	-	5,880
	Lead	mg/L					-	-	-	<0.001
10	Magnesium	mg/L	Quarterly				-	-	-	218
10	Nitrate	mg/L	(P3)				-	-	-	10.3
	Potassium	mg/L					-	-	-	61
	Sodium	mg/L					-	-	-	724
	Standing Water Level	m					-	-	-	1.1
	Sulphate	mg/L					-	-	-	273
	pН	рН					-	-	-	7



Table 3 – Monitoring (Quarterly Noise – Limits Apply)

EPL ID	Date	Measurement Period		ed levels – – dB(A) L _{Aeq} , 15 minute	Limit(s)- dB(A)	Wind speed (m/s)	Observations	(Potential) Non- compliance /breach
		15 mins day	-	-	-	-	-	
N1	-	15 mins evening	-	-	-	-	-	
INT		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.

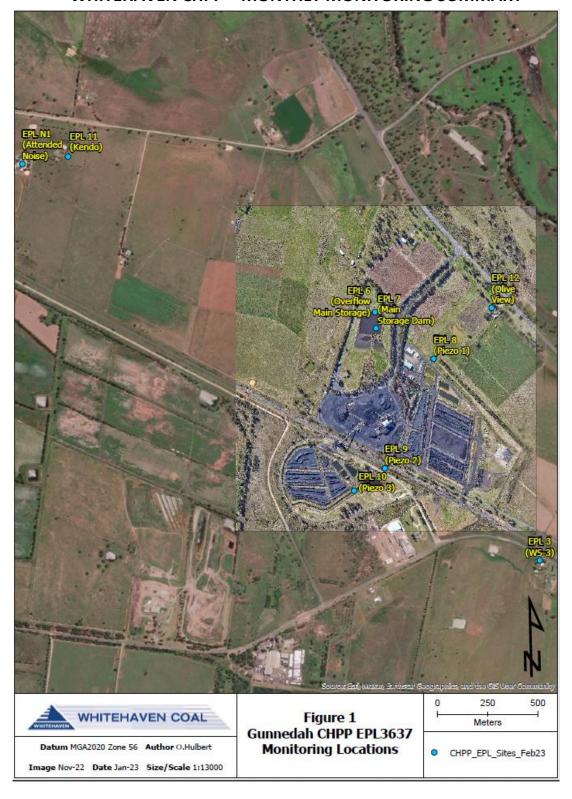
I/A: When site noise is noted as inaudible (I/A), no site noise was audible at the monitoring location.

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



WHITEHAVEN COAL





CORRECTION LOG – FEBRUARY 2023

Month of EPL Monitoring	Sample point	Date of original publishing	Date of Correction	Date of Republishing	Correction/s made:
February 2023	11	17/03/2023	9/05/2023	9/05/2023	 Changed No. of samples for month. Original data: 4, corrected data: 5 Added sample date 04/02/2023 Changed min value. Original data:8.3, corrected Data: 7.3 Changed mean value. Original data:23.7, corrected Data: 20.43 Changed median value. Original data: 12.05, corrected Data: 11.1
February 2023	12	17/03/2023	9/05/2023	9/05/2023	 Changed No. of samples for month. Original data: 4, corrected data: 5 Added sample date 04/02/2023 Changed mean value. Original data: 12.2, corrected Data: 11.5 Changed median value. Original data: 11.15, corrected Data: 8.8



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Licensee: Whitehaven Coal Mining Limited

Licensee Address: Boggabri Road, Gunnedah NSW 2380

EPL Monitoring Points: See Figure 1 below

Sampling Period: March 2023 Obtained Date: 21st April 2023 Publication Date: 21st April 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/m²/month	Continuous	1	17/03/2023	21/04/2023	-	-	-	2.3
11	PM ₁₀ Kendo	μg/m³	Every 6 days	5	06/03/2023 12/03/2023 18/03/2023 24/03/2023 30/03/2023	15/04/2023 (Last sampled received)	5.9	17.4	6.5	50.7
12	PM ₁₀ Olive View	μg/m³	Every 6 days	5	06/03/2023 12/03/2023 18/03/2023 24/03/2023 30/03/2023	15/04/2023 (Last sampled received)	1.8	6.54	6.3	13
	Conductivity	μs/cm					714	773	772.5	831
	Oil and Grease	mg/L	Each overflow		25/03/2023 29/03/2023	31/03/2023	<5	<5	< 5	<5
6	Total Organic Carbon	mg/L	event	2	23/03/2023		7	9	9	11
	Total Suspended Solids	mg/L	event				17	25	25	33
	рН	рН					7.35	7.86	7.86	8.36
	Conductivity	μs/cm					-	-	•	-
7	Oil and Grease	mg/L	Quarterly	0	-	-	-	-	-	-
	Total Organic Carbon	mg/L					-	-	-	-



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					ı	-	-	-
	рН	рН					-	-	-	-

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
	Ammonia	mg/L					-	-	-	-
	Bicarbonate	mg/L					1	-	-	-
	Calcium	mg/L		0	-	-	1	-	-	-
	Chloride	mg/L					1	-	-	-
	Conductivity	μs/cm					1	-	-	-
	Lead	mg/L					1	-	-	-
8	Magnesium	mg/L	Quarterly				1	-	-	-
0	Nitrate	mg/L	(P1)				-	-	-	-
	Potassium	mg/L					-	-	-	-
	Sodium	mg/L					-	-	-	-
	Standing Water Level	m					-	-	-	-
	Sulphate	mg/L					-	-	-	-
	рН	рН					-	-	-	-
	Ammonia	mg/L					-	-	-	-
_	Bicarbonate	mg/L	Quarterly				-	-	-	-
9	Calcium	mg/L	(P2)	0	-	-	-	-	-	-
	Chloride	mg/L					-	-	-	-



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					-	-	-	-
	Lead	mg/L					-	-	-	-
	Magnesium	mg/L					-	-	-	-
	Nitrate	mg/L					-	-	-	-
	Potassium	mg/L					-	-	-	-
	Sodium	mg/L					-	-	-	-
	Standing Water Level	m					-	-	-	-
	Sulphate	mg/L					-	-	-	-
	pН	рН					-	-	-	-
	Ammonia	mg/L					-	-	-	-
	Bicarbonate	mg/L					-	-	-	-
	Calcium	mg/L		0	-	-	-	-	-	-
	Chloride	mg/L					-	-	-	-
	Conductivity	μs/cm					-	-	-	-
	Lead	mg/L					-	-	-	-
40	Magnesium	mg/L	Quarterly				-	-	-	-
10	Nitrate	mg/L	(P3)				-	-	-	-
	Potassium	mg/L					-	-	-	-
	Sodium	mg/L					-	-	-	-
	Standing Water Level	m					-	-	-	-
	Sulphate	mg/L					-	-	-	-
	pH	рН					-	-	-	-



Table 3 – Monitoring (Quarterly Noise – Limits Apply)

EPL ID	Date	Measurement Period		ed levels – – dB(A) L _{Aeq} , 15 minute	Limit(s)- dB(A)	Wind speed (m/s)	Observations	(Potential) Non- compliance /breach
	31/03/2023	15 mins day	-	30	35	Calm	Traffic, birds, dozer operations	
		15 mins avaning		31	35	1.3	Train, insects, traffic dozer engine revs	
N1	30/03/2023	15 mins evening	•				and track slap	No
	30,00,2023	15 mins night	-	<25	35	1.5	Traffic, insects, animals and train. General	
		1 min night	41	-	45	1.5	site activity faintly audible, onsite horn.	

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.

LA1, 1 minute: The noise level exceeded for 1% of the 15 minute interval.

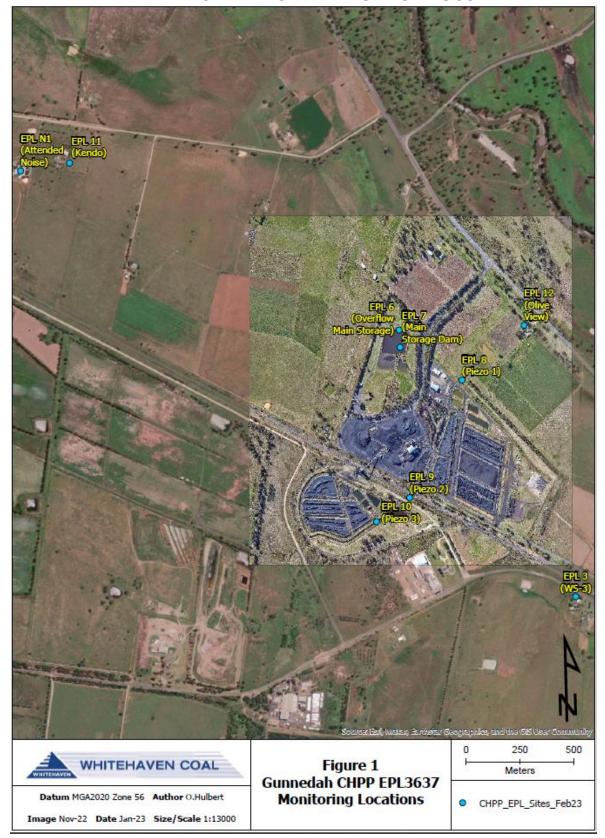
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- site noise levels were masked by another relatively loud noise source, but were estimated to be less than LAeq 30 dB, which is insignificant in terms of any applicable criterion.



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Licensee: Whitehaven Coal Mining Limited

Licensee Address: Boggabri Road, Gunnedah NSW 2380

EPL Monitoring Points: See Figure 1 below

Sampling Period: April 2023 Obtained Date: 12th May 2023 Publication Date: 19th May 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/m²/month	Continuous	1	17/04/2023	01/05/2023	-	-	-	17.5
11	PM ₁₀ Kendo	μg/m³	Every 6 days	5	05/04/2023 11/04/2023 17/04/2023 23/04/2023 29/04/2023	12/05/2023 (Last sampled received)	5.4	12.1	9.7	21.7
12	PM ₁₀ Olive View	μg/m³	Every 6 days	5	05/04/2023 11/04/2023 17/04/2023 23/04/2023 29/04/2023	12/05/2023 (Last sampled received)	2.7	4.6	4.2	7
	Conductivity	μs/cm					1	-	1	ı
	Oil and Grease	mg/L	Fack averflow		-	-	1	-	1	ı
6	Total Organic Carbon	mg/L	Each overflow event	0			-	-	-	-
	Total Suspended Solids	mg/L	event				ı	-	1	1
	рН	рН					ı	-	1	1
	Conductivity	μs/cm					1	-	-	ı
7	Oil and Grease	mg/L	Quarterly	0	-	-	1	-	-	-
	Total Organic Carbon	mg/L					-	-	-	-



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					ı	-	-	-
	рН	рН					-	-	-	-

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
	Ammonia	mg/L					-	-	-	-
	Bicarbonate	mg/L					1	-	-	-
	Calcium	mg/L		0	-	-	1	-	-	-
	Chloride	mg/L					1	-	-	-
	Conductivity	μs/cm					1	-	-	-
	Lead	mg/L					1	-	-	-
8	Magnesium	mg/L	Quarterly				1	-	-	-
0	Nitrate	mg/L	(P1)				-	-	-	-
	Potassium	mg/L					-	-	-	-
	Sodium	mg/L					-	-	-	-
	Standing Water Level	m					-	-	-	-
	Sulphate	mg/L					-	-	-	-
	рН	рН					-	-	-	-
	Ammonia	mg/L					-	-	-	-
_	Bicarbonate	mg/L	Quarterly				-	-	-	-
9	Calcium	mg/L	(P2)	0	-	-	-	-	-	-
	Chloride	mg/L					-	-	-	-



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					-	-	-	-
	Lead	mg/L					-	-	-	-
	Magnesium	mg/L					-	-	-	-
	Nitrate	mg/L					-	-	-	-
	Potassium	mg/L					-	-	-	-
	Sodium	mg/L					-	-	-	-
	Standing Water Level	m					-	-	-	-
	Sulphate	mg/L					-	-	-	-
	pН	рН					-	-	-	-
	Ammonia	mg/L					-	-	-	-
	Bicarbonate	mg/L					-	-	-	-
	Calcium	mg/L		0	-	-	-	-	-	-
	Chloride	mg/L					-	-	-	-
	Conductivity	μs/cm					-	-	-	-
	Lead	mg/L					-	-	-	-
40	Magnesium	mg/L	Quarterly				-	-	-	-
10	Nitrate	mg/L	(P3)				-	-	-	-
	Potassium	mg/L					-	-	-	-
	Sodium	mg/L					-	-	-	-
	Standing Water Level	m					-	-	-	-
	Sulphate	mg/L					-	-	-	-
	pH	рН					-	-	-	-



Table 3 – Monitoring (Quarterly Noise – Limits Apply)

EPL ID	Date	Measurement Period		ed levels – – dB(A) L _{Aeq} , 15 minute	Limit(s)- dB(A)	Wind speed (m/s)	Observations	(Potential) Non- compliance /breach
	-	15 mins day	-	-	35	-	-	,
N/4	-	15 mins evening	-	-	35	-	-	
N1		15 mins night	-	-	35	-	-	-
		1 min night	-	-	45	-		

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.

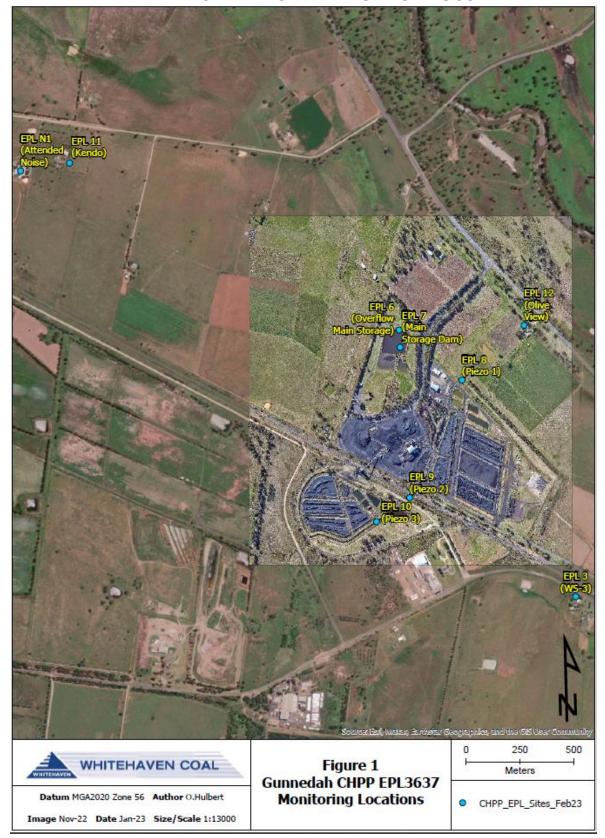
I/A: When site noise is noted as inaudible (I/A), no site noise was audible at the monitoring location.

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



WHITEHAVEN COAL





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: May 2023
Obtained Date: 13th June 2023
Publication Date: 19th June 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/m²/month	Continuous	1	17/05/2023	05/06/2023	-	-	-	1.44
11	PM ₁₀ Kendo	μg/m³	Every 6 days	5	05/05/2023 11/05/2023 17/05/2023 23/05/2023 29/05/2023	13/06/2023 (Last sampled received)	14	27.6	25.9	45.4
12	PM ₁₀ Olive View	μg/m³	Every 6 days	5	05/05/2023 11/05/2023 17/05/2023 23/05/2023 29/05/2023	13/06/2023 (Last sampled received)	5	10.2	9.2	18.3
	Conductivity	μs/cm					-	-	-	-
	Oil and Grease	mg/L	Each overflow		-	-	1	-	-	-
6	Total Organic Carbon	mg/L	event	0			ı	-	ı	ı
	Total Suspended Solids	mg/L	event				-	-	-	-
	рН	рН					-	-	-	-
	Conductivity	μs/cm					1	1	1	1150
7	Oil and Grease	mg/L	Quarterly	1	04/05/2023	11/05/2023	1	-	1	<5
	Total Organic Carbon	mg/L					-	-	-	3



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					-	-	-	25
	рН	рН					-	-	-	8

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
	Ammonia	mg/L					-	-	-	-
	Bicarbonate	mg/L					-	-	-	-
	Calcium	mg/L		0	-	-	ı	1	-	-
	Chloride	mg/L					•	1	-	-
	Conductivity	μs/cm					-	-	-	-
	Lead	mg/L					-	-	-	-
8	Magnesium	mg/L	Quarterly				-	-	-	-
0	Nitrate	mg/L	(P1)				-	-	-	-
	Potassium	mg/L					•	1	-	-
	Sodium	mg/L					•	1	-	-
	Standing Water Level	m					-	-	-	-
	Sulphate	mg/L					-	-	-	-
	рН	рН					1	ı	-	-
	Ammonia	mg/L					-	ı	-	-
9	Bicarbonate	mg/L	Quarterly				-	1	-	-
9	Calcium	mg/L	(P2)	0	-	-	-	1	-	-
	Chloride	mg/L					-	-	-	-



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					-	-	-	-
	Lead	mg/L					-	-	-	-
	Magnesium	mg/L					-	-	-	-
	Nitrate	mg/L					-	-	-	-
	Potassium	mg/L					-	-	-	-
	Sodium	mg/L					-	-	-	-
	Standing Water Level	m					-	-	-	-
	Sulphate	mg/L					-	-	-	-
	pН	рН					-	-	-	-
	Ammonia	mg/L					-	-	-	-
	Bicarbonate	mg/L					-	-	-	-
	Calcium	mg/L		0	-	-	-	-	-	-
	Chloride	mg/L					-	-	-	-
	Conductivity	μs/cm					-	-	-	-
	Lead	mg/L					-	-	-	-
40	Magnesium	mg/L	Quarterly				-	-	-	-
10	Nitrate	mg/L	(P3)				-	-	-	-
	Potassium	mg/L					-	-	-	-
	Sodium	mg/L					-	-	-	-
	Standing Water Level	m					-	-	-	-
	Sulphate	mg/L					-	-	-	-
	pH	рН					-	-	-	-



Table 3 – Monitoring (Quarterly Noise – Limits Apply)

EPL ID	Date	Measurement Period		ed levels – – dB(A) L _{Aeq} , 15 minute	Limit(s)- dB(A)	Wind speed (m/s)	Observations	(Potential) Non- compliance /breach
	-	15 mins day	-	-	35	-	-	
NI1	-	15 mins evening	-	-	35	-	-	
N1		15 mins night	-	-	35	-	-	-
		1 min night	-	-	45	-		

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.

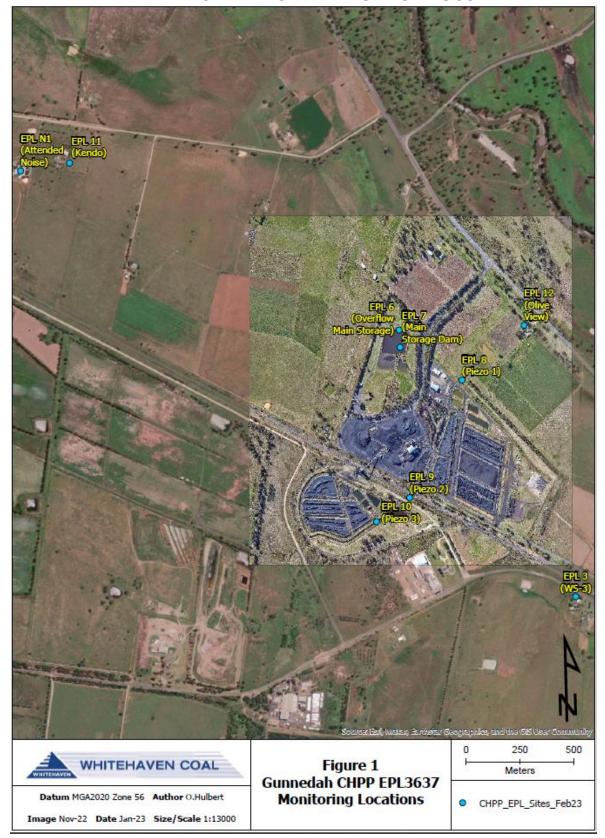
I/A: When site noise is noted as inaudible (I/A), no site noise was audible at the monitoring location.

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



WHITEHAVEN COAL





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/m²/month	Continuous	1	22/06/2023	05/07/2023	-	-	-	0.10
11	PM ₁₀ Kendo	μg/m³	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/m³	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
	Conductivity	μs/cm					1	-	-	1
	Oil and Grease	mg/L	Each overflow		-	-	1	-	1	ı
6	Total Organic Carbon	mg/L	event	0			1	-	1	ı
	Total Suspended Solids	mg/L	event				ı	-	1	1
	рН	рН					ı	-	1	1
	Conductivity	μs/cm					1	-	-	1
7	Oil and Grease	mg/L	Quarterly	0	-	-	1	-	-	-
	Total Organic Carbon	mg/L					-	-	-	-



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					ı	-	1	-
	рН	рН					-	-	-	-

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



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



Table 3 – Monitoring (Quarterly Noise – Limits Apply)

EPL	_	Measurement		red levels – P – dB(A)	Limit(s)-			(Potential) Non-
ID	Date	Period	L _{A1} , 1 minute	L _{Aeq} , 15 minute	dB(A)	Wind speed (m/s)	Observations	compliance /breach
	19/06/2023	15 mins day	-	N/M	35	1.1m/s WNW	Dozer operation barely audible, traffic, birds, animals, & train	
N1	19/06/2023	15 mins evening	-	25	35	Calm	Dozer operation, aircraft, animals, & traffic	No
		15 mins night	-	N/M	35	Calm	Dozer operation barely audible, traffic,	
		1 min night	N/M	•	45	Calm	animals, & plane	

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.

LA1, 1 minute: The noise level exceeded for 1% of the 15 minute interval.

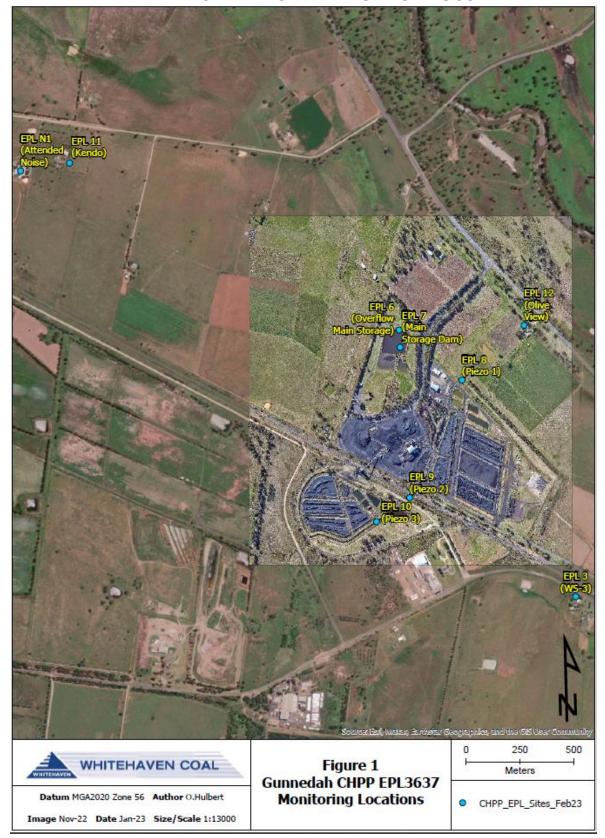
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WHITEHAVEN COAL





Site Information

EPL No: 3637

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Licensee: Whitehaven Coal Mining Limited

Licensee Address: Boggabri Road, Gunnedah NSW 2380

EPL Monitoring Points: See Figure 1 below

Sampling Period: July 2023
Obtained Date: 15th August 2023
Publication Date: 15th August 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/m²/month	Continuous	1	17/07/2023	02/08/2023	-	-	-	1.25
11	PM ₁₀ Kendo	μg/m³	Every 6 days	5	04/07/2023 10/07/2023 16/07/2023 22/07/2023 28/07/2023	15/08/2023 (Last sampled received)	0.4	11.8	12.2	26.7
12	PM ₁₀ Olive View	μg/m³	Every 6 days	5	04/07/2023 10/07/2023 16/07/2023 22/07/2023 28/07/2023	15/08/2023 (Last sampled received)	0.8	6.4	7.5	8.6
	Conductivity	μs/cm					-	-	-	-
	Oil and Grease	mg/L	Each overflow		-	-	-	-	-	-
6	Total Organic Carbon	mg/L	event	0			1	-	1	-
	Total Suspended Solids	mg/L	event				ı	1	1	-
	рН	рН					-	-	-	-
	Conductivity	μs/cm					1	1	-	1360
7	Oil and Grease	mg/L	Quarterly	1	27/07/2023	04/08/2023		-	-	<5
	Total Organic Carbon	mg/L					-	-	-	3



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					-	-	-	21
	рН	рН					ı	-	-	8.1

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
	Ammonia	mg/L					-	-	-	-
	Bicarbonate	mg/L					-	-	-	-
	Calcium	mg/L		0	-	-	ı	1	-	-
	Chloride	mg/L					•	1	-	-
	Conductivity	μs/cm					-	-	-	-
	Lead	mg/L					-	-	-	-
8	Magnesium	mg/L	Quarterly				-	-	-	-
0	Nitrate	mg/L	(P1)				-	-	-	-
	Potassium	mg/L					•	1	-	-
	Sodium	mg/L					•	1	-	-
	Standing Water Level	m					-	-	-	-
	Sulphate	mg/L					-	-	-	-
	рН	рН					1	ı	-	-
	Ammonia	mg/L					-	ı	-	-
9	Bicarbonate	mg/L	Quarterly				-	1	-	-
9	Calcium	mg/L	(P2)	0	-	-	-	1	-	-
	Chloride	mg/L					-	-	-	-



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					-	-	-	-
	Lead	mg/L					-	-	-	-
	Magnesium	mg/L					-	-	-	-
	Nitrate	mg/L					-	-	-	-
	Potassium	mg/L					-	-	-	-
	Sodium	mg/L					-	-	-	-
	Standing Water Level	m					-	-	-	-
	Sulphate	mg/L					-	-	-	-
	pН	рН					-	-	-	-
	Ammonia	mg/L					-	-	-	-
	Bicarbonate	mg/L					-	-	-	-
	Calcium	mg/L		0	-	-	-	-	-	-
	Chloride	mg/L					-	-	-	-
	Conductivity	μs/cm					-	-	-	-
	Lead	mg/L					-	-	-	-
40	Magnesium	mg/L	Quarterly				-	-	-	-
10	Nitrate	mg/L	(P3)				-	-	-	-
	Potassium	mg/L					-	-	-	-
	Sodium	mg/L					-	-	-	-
	Standing Water Level	m					-	-	-	-
	Sulphate	mg/L					-	-	-	-
	pH	рН					-	-	-	-



Table 3 – Monitoring (Quarterly Noise – Limits Apply)

EPL ID	Date	Measurement Period	Measured levels – CHPP – dB(A) La1, 1 Laeq, 15 minute minute		Limit(s)- dB(A)	Wind speed (m/s)	Observations	(Potential) Non- compliance /breach
	-	15 mins day	-	-	35	-	-	
NI1	-	15 mins evening	-	-	35	-	-	
N1		15 mins night	-	-	35	-	-	-
		1 min night	-	-	45	-		

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.

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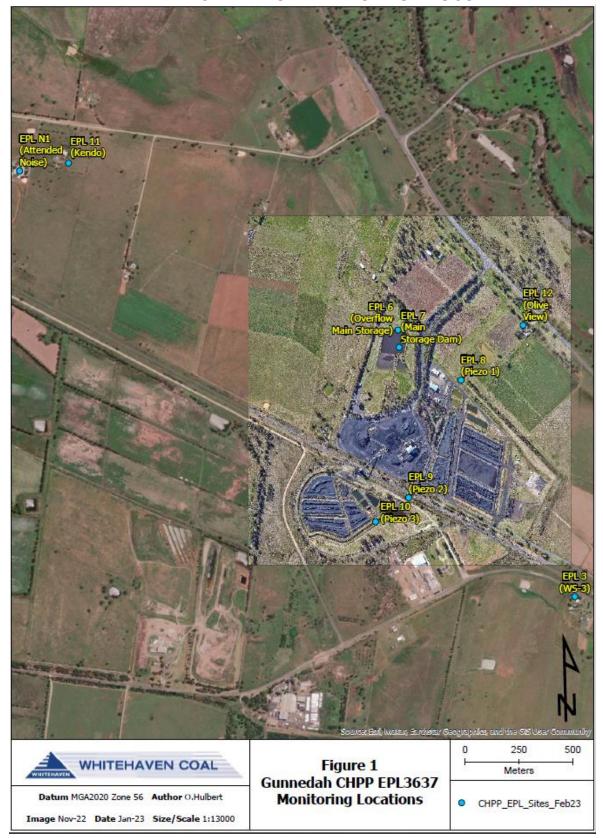
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WHITEHAVEN COAL





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: August 2023
Obtained Date: 15th September 2023
Publication Date: 18th September 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/m²/month	Continuous	1	16/08/2023	29/08/2023	-	-	-	0.31
11	PM ₁₀ Kendo	μg/m³	Every 6 days	5	03/08/2023 09/08/2023 15/08/2023 21/08/2023 27/08/2023	08/09/2023 (Last sampled received)	1.8	18.36	21	37.7
12	PM ₁₀ Olive View	μg/m³	Every 6 days	5	03/08/2023 09/08/2023 15/08/2023 21/08/2023 27/08/2023	08/09/2023 (Last sampled received)	4.9	7.76	8.6	9.4
	Conductivity	μs/cm					1	-	•	ı
	Oil and Grease	mg/L	Each overflow		-	-	1	-	•	ı
6	Total Organic Carbon	mg/L	event	0			1	-	•	ı
	Total Suspended Solids	mg/L	event				ı	-	1	1
	рН	рН					ı	-	1	1
	Conductivity	μs/cm					1	-	-	1
7	Oil and Grease	mg/L	Quarterly	0	-	-	1	-	-	-
	Total Organic Carbon	mg/L					-	-	-	-



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					ı	-	-	-
	рН	рН					-	-	-	-

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
	Ammonia	mg/L					-	-	-	-
	Bicarbonate	mg/L					ı	-	-	-
	Calcium	mg/L		0	-	-	ı	-	-	-
	Chloride	mg/L					ı	-	-	-
	Conductivity	μs/cm					1	-	-	-
	Lead	mg/L					1	-	-	-
8	Magnesium	mg/L	Quarterly				1	-	-	-
0	Nitrate	mg/L	(P1)				-	-	-	-
	Potassium	mg/L					-	-	-	-
	Sodium	mg/L					-	-	-	-
	Standing Water Level	m					-	-	-	-
	Sulphate	mg/L					-	-	-	-
	рН	рН					-	-	-	-
	Ammonia	mg/L					-	-	-	-
_	Bicarbonate	mg/L	Quarterly				-	-	-	-
9	Calcium	mg/L	(P2)	0	-	-	-	-	-	-
	Chloride	mg/L					-	-	-	-



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					-	-	-	-
	Lead	mg/L					-	-	-	-
	Magnesium	mg/L					-	-	-	-
	Nitrate	mg/L					-	-	-	-
	Potassium	mg/L					-	-	-	-
	Sodium	mg/L					-	-	-	-
	Standing Water Level	m					-	-	-	-
	Sulphate	mg/L					-	-	-	-
	pН	рН					-	-	-	-
	Ammonia	mg/L					-	-	-	-
	Bicarbonate	mg/L					-	-	-	-
	Calcium	mg/L		0	-	-	-	-	-	-
	Chloride	mg/L					-	-	-	-
	Conductivity	μs/cm					-	-	-	-
	Lead	mg/L					-	-	-	-
40	Magnesium	mg/L	Quarterly				-	-	-	-
10	Nitrate	mg/L	(P3)				-	-	-	-
	Potassium	mg/L					-	-	-	-
	Sodium	mg/L					-	-	-	-
	Standing Water Level	m					-	-	-	-
	Sulphate	mg/L					-	-	-	-
	pH	рН					-	-	-	-



Table 3 – Monitoring (Quarterly Noise – Limits Apply)

EPL	Date	Measurement	Measured levels –		Wind speed (m/s)	Observations	(Potential) Non-	
ID	- 300	Period	minute	minute	dB(A)			compliance /breach
	-	15 mins day	-	-	35	-	-	
N1	-	15 mins evening	-	-	35	-	-	
INT		15 mins night	-	-	35	-	-	_
		1 min night	-	-	45	-		

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.

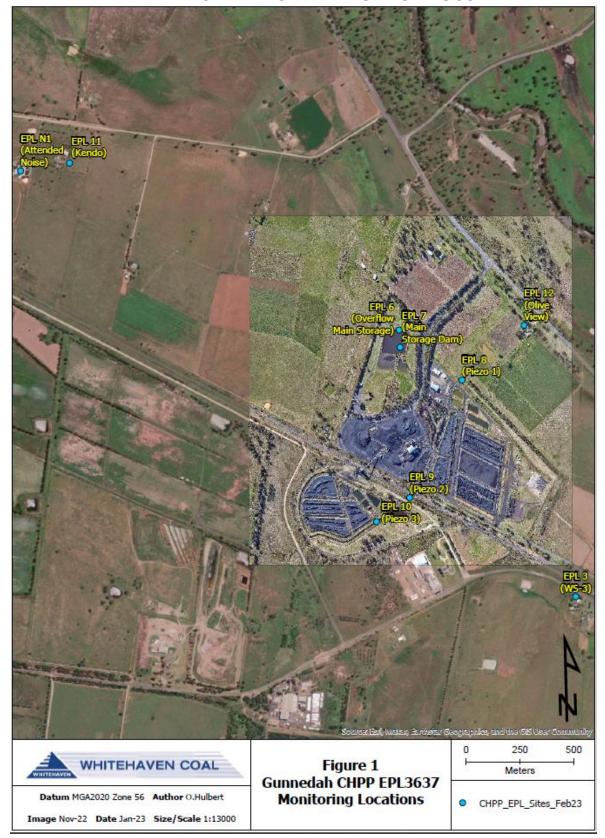
I/A: When site noise is noted as inaudible (I/A), no site noise was audible at the monitoring location.

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



WHITEHAVEN COAL





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: September 2023 **Obtained Date:** 12th October 2023 **Publication Date:** 13th October 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/m²/month	Continuous	1	15/09/2023	12/10/2023	-	-	-	0.8
11	PM ₁₀ Kendo	μg/m³	Every 6 days	5	02/09/2023 08/09/2023 14/09/2023 20/09/2023 26/09/2023	12/10/2023 (Last sampled received)	4.5	26.6	19.6	45.8
12	PM ₁₀ Olive View	μg/m³	Every 6 days	5	02/09/2023 08/09/2023 14/09/2023 20/09/2023 26/09/2023	12/10/2023 (Last sampled received)	5.2	10.7	9.5	18.8
	Conductivity	μs/cm					1	-	•	-
	Oil and Grease	mg/L	Fack averflow		-	-	ı	-	•	-
6	Total Organic Carbon	mg/L	Each overflow event	0			ı	-	•	-
	Total Suspended Solids	mg/L	event				ı	-	1	-
	рН	рН					ı	-	1	-
	Conductivity	μs/cm					1	-	-	-
7	Oil and Grease	mg/L	Quarterly	0	-	-	-	-	-	-
	Total Organic Carbon	mg/L					-	-	-	-



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					ı	-	-	-
	рН	рН					-	-	-	-

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
	Ammonia	mg/L					-	-	-	0.02
	Bicarbonate	mg/L					-	-	-	1240
	Calcium	mg/L		1	06/09/2023	15/09/2023	-	-	-	62
	Chloride	mg/L					-	ı	-	1790
	Conductivity	μs/cm					-	ı	-	9640
	Lead	mg/L					-	ı	-	0.004
8	Magnesium	mg/L	Quarterly				-	ı	-	193
0	Nitrate	mg/L	(P1)				-	ı	-	0.35
	Potassium	mg/L					-	-	-	27
	Sodium	mg/L					-	ı	-	2160
	Standing Water Level	m					-	-	-	4.97
	Sulphate	mg/L					-	-	-	1380
	рН	рН					-	-	-	7.5
	Ammonia	mg/L					-	-	-	0.42
9	Bicarbonate	mg/L	Quarterly				-	-	-	890
9	Calcium	mg/L	(P2)	1	06/09/2023	15/09/2023	-	-	-	277
	Chloride	mg/L					-	-	-	1040



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					-	-	-	5920
	Lead	mg/L					-	-	-	<0.001
	Magnesium	mg/L					-	-	-	239
	Nitrate	mg/L					-	-	-	0.18
	Potassium	mg/L					-	-	-	125
	Sodium	mg/L					-	-	-	718
	Standing Water Level	m					-	-	-	0.43
	Sulphate	mg/L					-	-	-	629
	рН	рН					-	-	-	7.2
	Ammonia	mg/L					-	-	-	0.05
	Bicarbonate	mg/L					-	-	-	705
	Calcium	mg/L		1	06/09/2023	15/09/2023	-	-	-	235
	Chloride	mg/L					-	-	-	1290
	Conductivity	μs/cm					-	-	-	5810
	Lead	mg/L					-	-	-	<0.001
10	Magnesium	mg/L	Quarterly				-	-	-	224
10	Nitrate	mg/L	(P3)				-	-	-	66
	Potassium	mg/L					-	-	-	62
	Sodium	mg/L					-	-	-	716
	Standing Water Level	m					-	-	-	0.37
	Sulphate	mg/L					-	-	-	268
	pH	рН					-	-	-	7.1



Table 3 – Monitoring (Quarterly Noise – Limits Apply)

EPL	_	Measurement		ed levels – P – dB(A)	Limit(s)-			(Potential) Non-
ID	Date	Period	L _{A1} , 1 minute	L _{Aeq} , 15 minute	dB(A)	Wind speed (m/s)	Observations	compliance /breach
	14/09/2023	15 mins day	-	N/M	35	2.9m/s East	General site activity barely audible, wind, birds, traffic, aircraft	
N1	14/09/2023	15 mins evening	-	30	35	1.6m/s South-East	General site activity 29-32dBA, dogs, insects, traffic, impact	No
		15 mins night	-	33	35	2.0m/s East	General site activity, Dozer operations,	
		1 min night	38	-	45	2.0m/s East	dogs, and traffic	

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.

LA1, 1 minute: The noise level exceeded for 1% of the 15 minute interval.

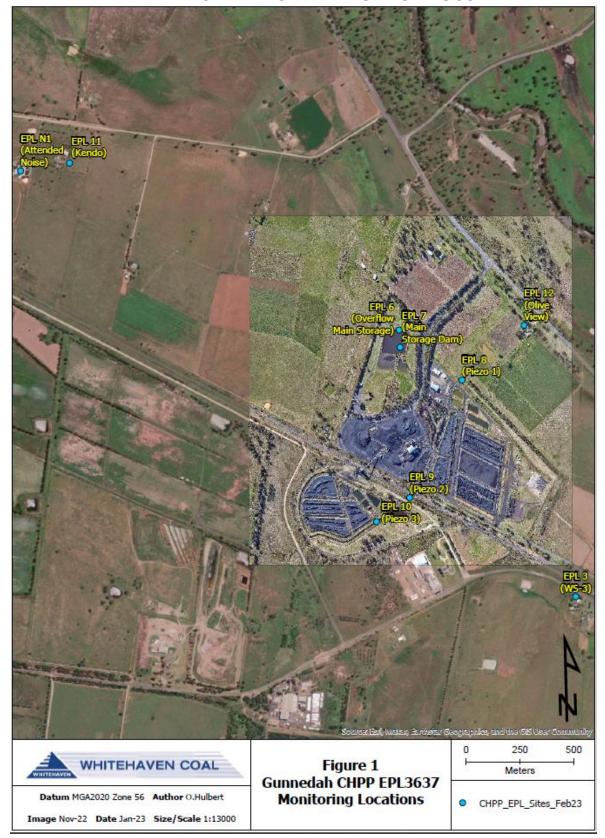
I/A: When site noise is noted as inaudible (I/A), no site noise was audible at the monitoring location.

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





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: October 2023
Obtained Date: 7th November 2023
Publication Date: 8th November 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/m²/month	Continuous	1	17/10/2023	1/11/2023	-	-	-	0.65
11	PM ₁₀ Kendo	μg/m³	Every 6 days	5	02/10/2023 08/10/2023 14/10/2023 20/10/2023 26/10/2023	7/11/2023 (Last sampled received)	9.4	20.6	18.4	37.3
12	PM ₁₀ Olive View	μg/m³	Every 6 days	5	02/10/2023 08/10/2023 14/10/2023 20/10/2023 26/10/2023	7/11/2023 (Last sampled received)	0.05	13.09	15.4	22
	Conductivity	μs/cm					-	-	1	1
	Oil and Grease	mg/L	Each overflow		-	-	-	-	ı	ı
6	Total Organic Carbon	mg/L	event	0			-	-	ı	ı
	Total Suspended Solids	mg/L	event				-	-	1	1
	рН	рН					-	-	1	1
	Conductivity	μs/cm					-	-	ı	ı
7	Oil and Grease	mg/L	Quarterly	0	-	-	-	-	-	-
	Total Organic Carbon	mg/L					-	-	-	-



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					ı	-	-	-
	рН	рН					-	-	-	-

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
	Ammonia	mg/L					-	-	-	-
	Bicarbonate	mg/L					ı	-	-	-
	Calcium	mg/L		0	-	-	ı	-	-	-
	Chloride	mg/L					ı	-	-	-
	Conductivity	μs/cm					1	-	-	-
	Lead	mg/L					1	-	-	-
8	Magnesium	mg/L	Quarterly				1	-	-	-
0	Nitrate	mg/L	(P1)				-	-	-	-
	Potassium	mg/L					-	-	-	-
	Sodium	mg/L					-	-	-	-
	Standing Water Level	m					-	-	-	-
	Sulphate	mg/L					-	-	-	-
	рН	рН					-	-	-	-
	Ammonia	mg/L					-	-	-	-
_	Bicarbonate	mg/L	Quarterly				-	-	-	-
9	Calcium	mg/L	(P2)	0	-	-	-	-	-	-
	Chloride	mg/L					-	-	-	-



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					-	-	-	-
	Lead	mg/L					-	-	-	-
	Magnesium	mg/L					-	-	-	-
	Nitrate	mg/L					-	-	-	-
	Potassium	mg/L					-	-	-	-
	Sodium	mg/L					-	-	-	-
	Standing Water Level	m					-	-	-	-
	Sulphate	mg/L					-	-	-	-
	pН	рН					-	-	-	-
	Ammonia	mg/L					-	-	-	-
	Bicarbonate	mg/L					-	-	-	-
	Calcium	mg/L		0	-	-	-	-	-	-
	Chloride	mg/L					-	-	-	-
	Conductivity	μs/cm					-	-	-	-
	Lead	mg/L					-	-	-	-
40	Magnesium	mg/L	Quarterly				-	-	-	-
10	Nitrate	mg/L	(P3)				-	-	-	-
	Potassium	mg/L					-	-	-	-
	Sodium	mg/L					-	-	-	-
	Standing Water Level	m					-	-	-	-
	Sulphate	mg/L					-	-	-	-
	pH	рН					-	-	-	-



Table 3 – Monitoring (Quarterly Noise – Limits Apply)

EPL ID	Date	Measurement Period		ed levels – – dB(A) L _{Aeq} , 15 minute	Limit(s)- dB(A)	Wind speed (m/s)	Observations	(Potential) Non- compliance
			minute	minute				/breach
	-	15 mins day	-	-	35	-	-	
NI1	-	15 mins evening	-	-	35	-	-	
N1		15 mins night	-	-	35	-	-	-
		1 min night			45	-		

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.

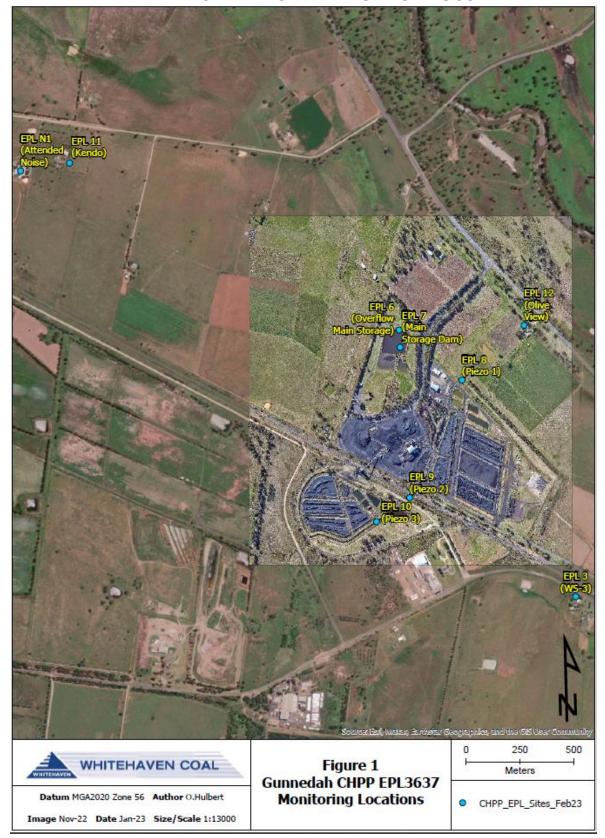
I/A: When site noise is noted as inaudible (I/A), no site noise was audible at the monitoring location.

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
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WHITEHAVEN COAL





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: November 2023
Obtained Date: 02nd January 2024
Publication Date: 02nd January 2024

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/m²/month	Continuous	1	16/11/2023	29/11/2023	-	-	-	1.1
11	PM ₁₀ Kendo	μg/m³	Every 6 days	5	01/11/2023 07/11/2023 13/11/2023 19/11/2023 25/11/2023	11/12/2023 (Last sampled received)	2.2	13.82	13.8	22.6
12	PM ₁₀ Olive View	μg/m³	Every 6 days	5	01/11/2023 07/11/2023 13/11/2023 19/11/2023 29/11/2023	02/01/2024 (Last sampled received)	3	13.3	15.9	18.3
	Conductivity	μs/cm					-	-	-	-
	Oil and Grease	mg/L	Each overflow		-	-	-	-	-	-
6	Total Organic Carbon	mg/L	event	0			1	-	ı	ı
	Total Suspended Solids	mg/L	event				ı	1	1	1
	рН	рН					-	-	-	-
	Conductivity	μs/cm					1	1	1	1270
7	Oil and Grease	mg/L	Quarterly	1	01/11/2023	3 09/11/2023	-	-	-	<5
	Total Organic Carbon	mg/L					-	-	-	4



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					ı	-	1	32
	рН	рН					-	-	-	8.40

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
	Ammonia	mg/L					-	-	-	0.06
	Bicarbonate	mg/L					-	ı	-	1310
	Calcium	mg/L		1	30/11/2023	07/12/2023	-	-	-	52
	Chloride	mg/L					-	-	-	1980
	Conductivity	μs/cm					-	-	-	9750
	Lead	mg/L					-	-	-	<0.001
8	Magnesium	mg/L	Quarterly				-	ı	-	184
0	Nitrate	mg/L	(P1)				-	-	-	<0.01
	Potassium	mg/L					-	-	-	23
	Sodium	mg/L					-	-	-	2020
	Standing Water Level	m					-	-	-	6.09
	Sulphate	mg/L					-	-	-	1300
	рН	рН					-	-	-	7.50
_	Ammonia	mg/L					-	-	-	0.58
9	Bicarbonate	mg/L	Quarterly				-	-	-	928
9	Calcium	mg/L	(P2)	1	30/11/2023	07/12/2023	-	-	-	229
	Chloride	mg/L					-	-	-	1090



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					-	-	-	5910
	Lead	mg/L					-	-	-	<0.001
	Magnesium	mg/L					-	-	-	228
	Nitrate	mg/L					-	-	-	0.04
	Potassium	mg/L					-	-	-	109
	Sodium	mg/L					-	-	-	766
	Standing Water Level	M					-	-	-	1.64
	Sulphate	mg/L					-	-	-	715
	pН	рН					-	-	-	7.10
	Ammonia	mg/L					-	-	-	0.61
	Bicarbonate	mg/L					-	-	-	753
	Calcium	mg/L		1	30/11/2023	07/12/2023	-	-	-	207
	Chloride	mg/L					-	-	-	1340
	Conductivity	μs/cm					-	-	-	5800
	Lead	mg/L					-	-	-	<0.001
10	Magnesium	mg/L	Quarterly				-	-	-	219
10	Nitrate	mg/L	(P3)				-	-	-	0.02
	Potassium	mg/L					-	-	-	63
	Sodium	mg/L					-	-	-	691
	Standing Water Level	M					-	-	-	1.15
	Sulphate	mg/L					-	-	-	249
	pH	pН					-	-	-	7.20



Table 3 – Monitoring (Quarterly Noise – Limits Apply)

EPL		Measurement		ed levels – P – dB(A)	Limit(s)-			(Potential) Non-	
ID	Date	Period	L _{A1} , 1 minute	L _{Aeq} , 15 minute	dB(A)	Wind speed (m/s)	Observations	compliance /breach	
	-	15 mins day	-	N/M	35	1.2 m/s NW	Site Noise: Inaudible Birds 40-61, Aircraft 45, Train 42		
N1	-	15 mins evening	-	31	35	1.1 m/s S	Site Noise: Dozer Dog 45-47, Traffic 35-38, Train 57	No	
		15 mins night	-	<25	35	1.1 m/s S	Site Noise: General Activity		
	1 min night				-	45	1.1 m/s S	Train 63, Insects 28-31, Traffic 30-34	

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.

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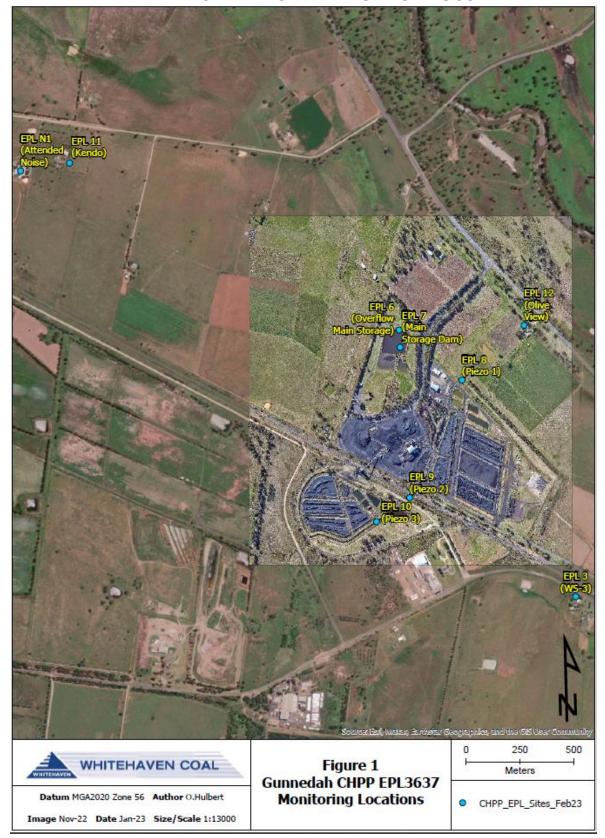
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WHITEHAVEN COAL





CORRECTION LOG – November 2023

Month of EPL Monitoring	Sample point	Date of original publishing	Date of Correction	Date of Republishing	Correction/s made:
November 2023	12	15/12/2023	02/01/2024	02/01/2024	 Changed No. of samples for month. Original data: 4, corrected data: 5 Added sample date 29/11/2023 Changed mean value. Original data:12.65, corrected Data: 13.3 Changed median value. Original data: 14.65, corrected Data: 15.9



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 2023
Obtained Date: 18th January 2024
Publication Date: 22nd January 2024

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/m²/month	Continuous	1	18/12/2023	18/01/2024	-	-	-	0.6
11	PM ₁₀ Kendo	μg/m³	Every 6 days	6	01/12/2023 07/12/2023 13/12/2023 19/12/2023 25/12/2023 31/12/2023	16/01/2024 (Last sampled received)	6.3	27.37	19.65	78.2
12	PM ₁₀ Olive View	μg/m³	Every 6 days	6	01/12/2023 07/12/2023 13/12/2023 19/12/2023 25/12/2023 31/12/2023	16/01/2024 (Last sampled received)	5.5	23.64	18.2	61.2
	Conductivity	μs/cm					-	-	-	-
	Oil and Grease	mg/L	Each overflow		-	-	-	-	-	-
6	Total Organic Carbon	mg/L	event	0			-	-	-	-
	Total Suspended Solids	mg/L	event				ı	-	ı	ı
	рН	рН					ı	-	ı	-
7	Conductivity	μs/cm	Quarterly				1	-	-	-
	Oil and Grease	mg/L	Quarterly	0			-	-	-	-



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 Organic Carbon	mg/L					-	-	-	-
	Total Suspended Solids	mg/L					-	-	-	-
	рН	рН					-	-	-	-

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
	Ammonia	mg/L					-	-	-	-
	Bicarbonate	mg/L					-	-	-	-
	Calcium	mg/L		0			-	-	-	-
	Chloride	mg/L					-	-	-	ı
	Conductivity	μs/cm					-	-	-	-
	Lead	mg/L					-	-	-	-
8	Magnesium	mg/L	Quarterly				-	-	-	-
0	Nitrate	mg/L	(P1)				-	-	-	-
	Potassium	mg/L					-	-	-	-
	Sodium	mg/L					-	-	-	-
	Standing Water Level	m					-	-	-	-
	Sulphate	mg/L					-	-	-	-
	pH	рН					-	-	-	-
	Ammonia	mg/L	Overseli				-	-	-	-
9	Bicarbonate	mg/L	Quarterly				-	-	-	-
	Calcium	mg/L	(P2)	0			-	-	-	-



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
	Chloride	mg/L					-	-	-	1
	Conductivity	μs/cm					-	-	-	-
	Lead	mg/L					-	-	-	-
	Magnesium	mg/L					-	-	-	-
	Nitrate	mg/L					-	-	-	-
	Potassium	mg/L					-	-	-	-
	Sodium	mg/L					-	-	-	-
	Standing Water Level	М					-	-	-	-
	Sulphate	mg/L					-	-	-	-
	рН	рН					-	-	-	-
	Ammonia	mg/L	Quarterly (P3)	0			-	-	-	-
	Bicarbonate	mg/L					-	-	-	-
	Calcium	mg/L					-	-	-	-
	Chloride	mg/L					-	-	-	-
	Conductivity	μs/cm					-	-	-	1
	Lead	mg/L					-	-	-	-
10	Magnesium	mg/L					-	-	-	-
	Nitrate	mg/L					-	-	-	ı
	Potassium	mg/L					-	-	-	-
	Sodium	mg/L					-	-	-	-
	Standing Water Level	М					-	-	-	-
	Sulphate	mg/L					-	-	-	-
	pH	рН					-	-	-	-



Table 3 – Monitoring (Quarterly Noise – Limits Apply)

EPL ID	Date	Measurement Period	Measured levels – CHPP – dB(A) La1, 1 Laeq, 15		Limit(s)- dB(A)	Wind speed (m/s)	Observations	(Potential) Non- compliance
			minute	minute				/breach
	-	15 mins day	-		35			
N1	-	15 mins evening	1		35			
INT		15 mins night	-		35			
		1 min night	·	-	45			

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



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