VICKERY COAL MINE – MONTHLY MONITORING SUMMARY

Site Information

EPL No: 21283
EPA Website Link:
https://whitehavencoal.com.au/Documentations/Vickery%20Extension%20Project/Approvals/Environment%20Protection%20Licence/VIC%20-%20Environmental%20Protection%20Licence.pdf?v=1702936903
Licensee: Vickery Coal Pty Ltd
Licensee Address: Vickery Coal Mine, Blue Vale Road, BOGGABRI NSW 2382
EPL Monitoring Points: See Figure 1 below
Sampling Period: February 2025
Obtained Date: 6/03/2025
Publication Date: 10/03/2025

Name	Role	Signature	Date
Megan Martin	Environmental Superintendent	DocuSigned by: M. Martin 524CD8D3818B4C3...	10 March 2025

Table 1: Surface Water – No Pollutant Limits Apply

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Samples for the Period	Date Sampled	Date of Max. Value Obtained	Min Value	Mean Value	Median Value	Max or Only Value	Comment/s
2	TSS	mg/L	Quarterly (Mar, Jun, Sep & Dec)	-	-	-	-	-	-	-	-
	Conductivity	µS/cm		-	-	-	-	-	-	-	
	Oil & Grease	mg/L		-	-	-	-	-	-	-	
	pH	pH		-	-	-	-	-	-	-	
3	TSS	mg/L	Quarterly (Mar, Jun, Sep & Dec)	-	-	-	-	-	-	-	-
	Conductivity	µS/cm		-	-	-	-	-	-	-	
	Oil & Grease	mg/L		-	-	-	-	-	-	-	
	pH	pH		-	-	-	-	-	-	-	
9	TSS	mg/L	Quarterly (Mar, Jun, Sep & Dec)	-	-	-	-	-	-	-	-
	Conductivity	µS/cm		-	-	-	-	-	-	-	
	Oil & Grease	mg/L		-	-	-	-	-	-	-	
	pH	pH		-	-	-	-	-	-	-	
10	TSS	mg/L	Upon discharge	-	-	-	-	-	-	-	No discharge
	Conductivity	µS/cm		-	-	-	-	-	-	-	
	Oil & Grease	mg/L		-	-	-	-	-	-	-	
	pH	pH		-	-	-	-	-	-	-	

Table 2: Surface Water - Pollutant Limits Apply

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Samples for the Month	Date Sampled	Date of Max. Value Obtained	Min Value	Max or Only Value	100%ile Limit	Exceed -ance (Yes/ No)	Comment/s
14	TSS	mg/L	Upon discharge	-	-	-	-	-	50	-	No discharge
	Conductivity	µS/cm							NA		
	Oil & Grease	mg/L		-	-	-	-	-	10	-	
	pH	pH		-	-	-	-	-	8.5	-	
20	TSS	mg/L	Upon discharge	-	-	-	-	-	50	-	No discharge
	Conductivity	µS/cm							NA		
	Oil & Grease	mg/L		-	-	-	-	-	10	-	
	pH	pH		-	-	-	-	-	8.5	-	
21	TSS	mg/L	Upon discharge	-	-	-	-	-	50	-	No discharge
	Conductivity	µS/cm		-	-	-	-	-	NA	-	
	Oil & Grease	mg/L		-	-	-	-	-	10	-	
	pH	pH		-	-	-	-	-	8.5	-	

Table 3: Groundwater – No Limits apply

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Samples for the Period	Date Sampled	Date of Max. Value Obtained	Min Value	Mean Value	Median Value	Max or Only Value
15	Conductivity	µS/cm	Six Monthly (April & Oct)	-	-	-	-	-	-	-
	Lead	mg/L		-	-	-	-	-	-	-
	pH	pH		-	-	-	-	-	-	-
	Standing Water Level	metres		-	-	-	-	-	-	-
16	Conductivity	µS/cm	Six Monthly (April & Oct)	-	-	-	-	-	-	-
	Lead	mg/L		-	-	-	-	-	-	-
	pH	pH		-	-	-	-	-	-	-
	Standing Water Level	metres		-	-	-	-	-	-	-
17	Conductivity	µS/cm	Six Monthly (April & Oct)	-	-	-	-	-	-	-
	Lead	mg/L		-	-	-	-	-	-	
	pH	pH		-	-	-	-	-	-	
	Standing Water Level	metres		-	-	-	-	-	-	
18	Conductivity	µS/cm	Six Monthly (April & Oct)	-	-	-	-	-	-	-
	Lead	mg/L		-	-	-	-	-	-	-
	pH	pH		-	-	-	-	-	-	-
	Standing Water Level	metres		-	-	-	-	-	-	-

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Samples for the Period	Date Sampled	Date of Max. Value Obtained	Min Value	Mean Value	Median Value	Max or Only Value
19	Conductivity	µS/cm	Six Monthly (April & Oct)	-	-	-	-	-	-	-
	Lead	mg/L		-	-	-	-	-	-	-
	pH	pH		-	-	-	-	-	-	-
	Standing Water Level	metres		-	-	-	-	-	-	-

Table 4 – Monthly Attended Noise Monitoring

(Noise Limits Apply - 40dB LAeq(15min) -Day, 37dB LAeq(15min) Evening and Night; 52dB LA1(1min) -Night)

Table 4 **VCM Operational Noise Monitoring Results Leq(15min) – 14th February 2025 (Day)**								
Location	**Time**	**dB(A), Leq**	**VCM Contribution dB(A),Leq**	**Criterion dB(A),Leq**	**Wind speed (m/s),dir**	**Stability Class**	**Identified Noise Sources dB(A),Leq**	**Exceedance (Yes/No)**
N-AT1 / 7	12:00pm	36	IA	40	2.5 / 297	B	Birds (36), insects (24), **VCM (IA)**	No
N-AT2 / 8	9:33am	42	IA	40	1.6 / 123	A	Birds (39), insects (36), traffic (36), **VCM (IA)**	No
Table 5 **VCM Operational Noise Monitoring Results Leq(15min) – 13th February 2025 (Evening)**								
Location	**Time**	**dB(A), Leq**	**VCM Contribution dB(A),Leq**	**Criterion dB(A),Leq**	**Wind speed (m/s),dir**	**Stability Class**	**Identified Noise Sources dB(A),Leq**	**Exceedance (Yes/No)**
N-AT1 / 7	6:04pm	42	IA	40[1]	3.6 / 061	D	Traffic (42), birds (23), **VCM (IA)**	No
N-AT2 / 8	7:15pm	42	IA	42[1]	3.7 / 290	D	Traffic (40), birds (35), insects (32), **VCM (IA)**	No

Table 6

VCM Operational Noise Monitoring Results Leq(15min) – 13th February 2025 (Night)

Location	Time	dB(A), Leq	VCM Contribution dB(A),Leq	Criterion dB(A),Leq	Wind speed (m/s),dir	Stability Class	Identified Noise Sources dB(A),Leq	Exceedance (Yes/No)
N-AT1 / 7	11:49pm	35	22	35	1.5 / 113	E	Insects (35), **VCM (22)**	No
N-AT2 / 8	10:03pm	39	IA	37	1.2 / 097	E	Insects (36), traffic (36), **VCM (IA)**	No

Table 7

VCM Operational Noise Monitoring Results LA_{max} – 13th February 2025

Location	Time	dB(A), LA_{max}	VCM Contribution dB(A), LA_{max}	Criterion dB(A), LA_{max}	Wind speed (m/s),dir	Stability Class	LA_{max} Noise Source	Exceedance (Yes/No)
N-AT1 / 7	11:49pm	46	26	52	1.5 / 113	E	Insects	No
N-AT2 / 8	10:03pm	50	IA	52	1.2 / 097	E	Insects	No

Table 5 – Monthly Monitoring (Blasts – Limits Apply)

Location	Parameter	Units of Measure	Frequency	No. of Blasts for the Month	Average Value	Max Value	100%ile Limit	(Potential) Non-compliance /breach	Date of Max. Value Obtained
B-01	**Blast Noise**	**dB (Lin Peak)**	**Every Blast**	4	101.7	111.60	**N/A**	**Nil**	25/02/2025
	Blast Vibration	**mm/s**	**Every Blast**	4	0.39	0.49	**N/A**	**Nil**	25/02/2025

Location	Parameter	Units of Measure	Frequency	No. of Blasts for the Month	Average Value	Max Value	100%ile Limit	(Potential) Non-compliance /breach	Date of Max. Value Obtained
B-02	**Blast Noise**	**dB (Lin Peak)**	**Every Blast**	4	104.30	115.40	**N/A**	**Nil**	25/02/2025
	Blast Vibration	**mm/s**	**Every Blast**	4	0.83	1.14	**N/A**	**Nil**	19/02/2025

Location	Parameter	Units of Measure	Frequency	No. of Blasts for the Month	Average Value	Max Value	100%ile Limit	(Potential) Non-compliance /breach	Date of Max. Value Obtained
B-03	**Blast Noise**	**dB (Lin Peak)**	**Every Blast**	4	94.98	107.30	**120**	**N/A**	25/02/2025
	Blast Vibration	**mm/s**	**Every Blast**	4	0.13	0.18	**10**	**N/A**	25/02/2025

Table 6- PM1 Monthly Monitoring (Limits apply)

Location	No. of samples required by licence	Lowest sample value	Mean of sample	Highest sample value
PM10 TEOM (µg/m³)	Continuous	4.9	12.2	21.1
PM2.5 TEOM (µg/m³)	Continuous	2	5.7	10.7

Table 7- PM2 Monthly Monitoring (Limits apply)

Location	No. of samples required by licence	Lowest sample value	Mean of sample	Highest sample value
PM10 TEOM (µg/m³)	Continuous	8.3	15.2	23.9
PM2.5 TEOM (µg/m³)	Continuous	2.6	7.7	13.6

Figure 1 – EPL 21283 Monitoring Locations