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: August 2024
Obtained Date: 11/09/2024
Publication Date: 18/09/2024

Name	Role	Signature	Date
Harry Mills	Environmental Advisor	DocuSigned by: Harry Mills B65BEB8A5407466...	September 19, 2024 | 7:44 AM AEST

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) – 15th August 2024 (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	1:57pm	45	IA	40	1.4 / 216	C	Birds (43), frogs (38), traffic (35), **VCM (IA)**	No
N-AT2 / 8	4:12pm	48	IA	40	1.4 / 173	C	Traffic (45), frogs (43), **VCM (IA)**	No
Table 5 **VCM Operational Noise Monitoring Results Leq(15min) – 15th August 2024 (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	9:28pm	32	IA	35	1.7 / 155	D	Traffic (30), wind (26), **VCM (IA)**	No
N-AT2 / 8	8:19pm	43	IA	37	2.3 / 88	E	Frogs (41), Traffic (37), **VCM (IA)**	No

Table 6

VCM Operational Noise Monitoring Results Leq(15min) – 15th August 2024 (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	10:01pm	33	22	35	0.9 / 158	D	Traffic (30), cattle (30), **VCM (22)**	No
N-AT2 / 8	11:48pm	39	IA	37	1.2 / 165	D	Traffic (37), frogs (34), **VCM (IA)**	No

Table 7

VCM Operational Noise Monitoring Results LA_{max} – 15th August 2024

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	10:01pm	55	26	52	0.9 / 158	D	Bird	No
N-AT2 / 8	11:48pm	61	IA	52	1.2 / 165	D	Horse	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**	5	101.7	109.70	**N/A**	**Nil**	14/08/2024
	Blast Vibration	**mm/s**	**Every Blast**	5	0.87	1.61	**N/A**	**Nil**	5/08/2024

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**	5	105.84	115.20	**N/A**	**Nil**	14/08/2024
	Blast Vibration	**mm/s**	**Every Blast**	5	1.27	1.86	**N/A**	**Nil**	5/08/2024

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**	5	98.18	105.10	**120**	**N/A**	14/08/2024
	Blast Vibration	**mm/s**	**Every Blast**	5	0.47	0.93	**10**	**N/A**	5/08/2024

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	5.1	10.4	19.7
PM2.5 TEOM (µg/m³)	Continuous	2.3	4.9	8.4

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	2.4	8.2	17.9
PM2.5 TEOM (µg/m³)	Continuous	1.1	4.6	12.6

Figure 1 – EPL 21283 Monitoring Locations