



SUNNYSIDE COAL MINE – MONTHLY MONITORING SUMMARY

Site Information

EPL No: 12957

EPA Website Link: <http://epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=40292&SYSUID=1&LICID=12957>

Licensee: Namoi Mining Pty Ltd

Licensee Address: Sunnyside Coal Project, 259 Coocooboona Lane, GUNNEDAH NSW 2380

EPL Monitoring Points: See Figure 1 below

Sampling Period: September 2018

Obtained Date: 10th October 2018

Publication Date: 10th October 2018

Table 1 - No Pollutant Limits Apply

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Samples for the Month	Date(s) Sampled	Date(s) Obtained	Min Value	Mean Value	Median Value	Max or Only Value
1	Particulates-Deposited Matter	g/m ² /month	Continuous	1	18/09/2018	27/09/2018	-	-	-	20.6
2	Particulates-Deposited Matter	g/m ² /month	Continuous	1	18/09/2018	27/09/2018	-	-	-	3.2
4	Particulates-Deposited Matter	g/m ² /month	Continuous	1	18/09/2018	27/09/2018	-	-	-	1.6
5	Particulates-Deposited Matter	g/m ² /month	Continuous	1	18/09/2018	27/09/2018	-	-	-	2.4
6	Particulates-Deposited Matter	g/m ² /month	Continuous	1	18/09/2018	27/09/2018	-	-	-	1.4
7	PM ₁₀	µg/m ³	Every 6 days	3	Various	05/10/2018	7.2	13.67	17.8	28.8
9	Conductivity	µS/cm	Special Frequency 1*	-	-	-	-	-	-	-
	Total organic carbon	mg/L					-	-	-	-
10	Conductivity	µS/cm		-	-	-	-	-	-	-

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	Total organic carbon	mg/L	Special Frequency 1*				-	-	-	-
11	TSS	mg/L	Special Frequency 2**	-	-	-	-	-	-	-
	Conductivity	µS/cm		-			-	-	-	
	Oil & Grease	mg/L		-			-	-	-	
	pH	pH		-			-	-	-	
	Total organic carbon	mg/L		-			-	-	-	
12	TSS	mg/L	Special Frequency 2**	-	-	-	-	-	-	-
	Conductivity	µS /cm		-			-	-	-	
	Oil & Grease	mg/L		-			-	-	-	
	pH	pH		-			-	-	-	
	Total organic carbon	mg/L		-			-	-	-	

Table 2 - Pollutant Limits Apply

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Samples for the Month	Date Sampled	Date Obtained	Min Value	Max Value	100%ile Limit	Exceedance (Yes/No)	Comments
9	TSS	mg/L	Special Frequency 1*	0	-	-	-	-	50	-	No discharge
	Oil & Grease	mg/L		0			-	-	10	-	No discharge
	pH	pH		0			-	-	6.5-8.5	-	No discharge
10	TSS	mg/L	Special Frequency 1*	0	-	-	-	-	50	-	No discharge
	Oil & Grease	mg/L		0			-	-	10	-	No discharge
	pH	pH		0			-	-	6.5-8.5	-	No discharge

* Special Frequency 1 means the collection of samples as soon as practicable after each discharge commences and in any case not more than 12 hours after each discharge commences.

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** Special Frequency 2 means collection of samples quarterly (in the event of flow during the quarter) at a time when there is flow and as soon as practicable after each wet weather discharge from points 9 and 10 commences and in any case not more than 12 hours after each discharge commences.

Table 3- Noise Monitoring (Noise limits apply)

EPL ID	Date	Start Time	Measurement Period	Measured Levels – dB(A)	Measured Levels – dB(A)	Limit	Wind speed/ direction	Compliant (Yes/No)	Comments
				L _{eq} 15min Day	L _{eq} 15min Evening				
13	10/09/2018	09:45	90min	I/A		35 dB(A) Leq (15 min)	4.8 m/s NE/ENE	Y	I/A = inaudible
		18:36	30min		I/A		2.3 m/s SE	Y	
	11/09/2018	09:22	90min	I/A			3.4 m/s N-NW	Y	
		18:07	30min		I/A		0.3 m/s NW-SE	Y	
	12/09/2018	09:15	90min	I/A			4.2 m/s NW	Y	
		18:09	30min		I/A		0.9m/s NW-SW	Y	
14	10/09/2018	11:31	90min	30		35 dB(A) Leq (15 min)	3.3 m/s E	Y	
		19:53	30min		I/A		3.8 m/s SE	Y	
	11/09/2018	11:06	90min	I/A			2.8 m/s W	Y	
		19:55	30min		I/A		2.5 m/s ESE	Y	
	12/09/2018	11:16	90min	I/A			6.3 m/s NW	Y	
		19:40	30min		I/A		2.2 m/s SE	Y	
15	10/09/2018	11:35	90min	28		35 dB(A) Leq (15 min)	3.3 m/s E	Y	
		18:51	30min		I/A		2.2 m/s SSE	Y	
	11/09/2018	11:16	90min	I/A			2.8 m/s W-NW	Y	
		18:49	30min		I/A		1.3 m/s SSE	Y	
	12/09/2018	11:03	90min	N/M			6.3 m/s NE	Y	N/M = not measurable
		18:50	30min		I/A		0.5 m/s SW-E	Y	
16	10/09/2018	7:38	90min	I/A			1.2 m/s E-NNW	Y	

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	11/09/2018	19:50	30min		I/A	35 dB(A) Leq (15 min)	3.8 m/s E-SE	Y	Haul truck & dozer operations
		07:23	90min	34			3.9 m/s E-N	Y	
		19:47	30min		I/A		2.5 m/s ESE	Y	
	12/09/2018	07:18	90min	30			1.9 m/s N	Y	
		19:42	30 min		I/A		2.2 m/s E	Y	
17	10/09/2018	09:31	90min	<25		35 dB(A) Leq (15 min)	4.8 m/s NE/ENE	Y	
		19:09	30min		I/A		2.6 m/s SSE	Y	
	11/09/2018	09:12	90min	<25			3.4 m/s W	Y	
		19:11	30min		I/A		2.1 m/s SE	Y	
	12/09/2018	09:23	90min	31			4.2 m/s NW	Y	
		18:56	30min		I/A		1.1 m/s SE	Y	

Table 4 – Monitoring (Blasts – Limits Apply)

Location	Parameter	Units of Measure	Frequency	No. of Blasts for the Month	Average Value	Max or Only Value	100%ile Limit	(Potential) Non-compliance/breach
19	Blast Noise	dB (Lin Peak)	Every Blast	2	102.3	104	120	No
	Blast Vibration	mm/s			0.59	0.31	10	No
20	Blast Noise	dB (Lin Peak)	Every Blast	2	104.3	105	120	No
	Blast Vibration	mm/s			0.35	0.48	10	No
23	Blast Noise	dB (Lin Peak)	Every Blast	2	101.8	105.7	120	No
	Blast Vibration	mm/s			0.28	0.4	10	No
24	Blast Noise	dB (Lin Peak)	Every Blast	2	109.3	109.6	120	No
	Blast Vibration	mm/s			0.31	0.41	10	No
26	Blast Noise	dB (Lin Peak)	Every Blast	2	102.3	104	120	No
	Blast Vibration	mm/s			0.59	0.8	10	No

Figure 1 – EPL 12957 Monitoring Locations

