

SUNNYSIDE COAL MINE – MONTHLY MONITORING SUMMARY
Site Information

EPL No: 12957

EPA Website Link: <http://www.environment.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=31541&SYSUID=1&LICID=12957> (Licence version 15-Jun-2012)

Licensee: Namoi Mining Pty Ltd

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

EPL Monitoring Points: See Figure 1 below

Sampling Period: April 2012 (Licence version 20-Dec-2011)

Publication Date: 22nd June 2012 (re-published 9th September 2014)

Table 1 - No Pollutant Limits Apply

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Samples for the Month	Date(s) Sampled	Date Obtained	Min Value	Mean Value	Median Value	Max Value
1	Particulates-Deposited Matter	g/m ² /month	Continuous	1	18/4/2012	27/4/2012	0.8	0.8	0.8	0.8
2	Particulates-Deposited Matter	g/m ² /month	Continuous	1	18/4/2012	27/4/2012	3.3	3.3	3.3	3.3
3	Particulates-Deposited Matter	g/m ² /month	Continuous	1	18/4/2012	27/4/2012	0.4	0.4	0.4	0.4
4	Particulates-Deposited Matter	g/m ² /month	Continuous	1	18/4/2012	27/4/2012	1.7	1.7	1.7	1.7
5	Particulates-Deposited Matter	g/m ² /month	Continuous	1	18/4/2012	27/4/2012	1.1	1.1	1.1	1.1
6	Particulates-Deposited Matter	g/m ² /month	Continuous	1	18/4/2012	27/4/2012	1.1	1.1	1.1	1.1
7	PM ₁₀	µg/m ³	Continuous*	5	2,8,14,20,26/5/2012	7/5/2012	9.0	14.6	15	22.4
8	PM ₁₀	µg/m ³	Continuous*	5	2,8,14,20,26/5/2012	7/5/2012	2.7	9.6	6.7	17.5
9	Conductivity	µS/cm	Special Frequency 1**	0	-	-	-	-	-	-
	Total organic carbon	mg/L		0	-	-	-	-	-	-
10	Conductivity	µS/cm	Special Frequency 1**	0	-	-	-	-	-	-
	Total organic carbon	mg/L		0	-	-	-	-	-	-

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11	TSS	mg/L	Special Frequency 2***	0	-	-	-	-	-	-
	Conductivity	µS/cm		0	-	-	-	-	-	-
	Oil & Grease	mg/L		0	-	-	-	-	-	-
	pH	pH		0	-	-	-	-	-	-
	Total organic carbon	mg/L		0	-	-	-	-	-	-
12	TSS	mg/L	Special Frequency 2***	0	-	-	-	-	-	-
	Conductivity	µS/cm		0	-	-	-	-	-	-
	Oil & Grease	mg/L		0	-	-	-	-	-	-
	pH	pH		0	-	-	-	-	-	-
	Total organic carbon	mg/L		0	-	-	-	-	-	-

* This frequency is an error; this licence has since been varied to a frequency of every 6 days.

** 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.

*** 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 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



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Table 3 – Monitoring (Noise – Limits Apply)

EPL ID	Date	Start Time	Measurement Period	Measured Levels – dB(A)	Measured Levels – dB(A)	Measured Levels – dB(A)	Measured Levels – dB(A)	Limit(s)	Weather	Compliant (Yes/No)	Comments
				L _{eq} 15min Day	L _{eq} 15min Evening	L _{eq} 15min Night	L _{A1} (1 min) Night				
R2	-	-	-	-	-	-	-	Day, Evening & Night~: 35	-	-	No monitoring for month
R4	-	-	-	-	-	-	-	Day, Evening & Night~: 35	-	-	No monitoring for month
R5	-	-	-	-	-	-	-	Day, Evening & Night~: 35	-	-	No monitoring for month
R6	-	-	-	-	-	-	-	Day, Evening & Night~: 35	-	-	No monitoring for month

~Note Sunnyside mine does not operate during night hours, hence no measurements are taken.



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Table 4 – 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
R1	Blast Noise	dB (Lin Peak)	Every Blast	1	101.3	101.3	120	No
	Blast Vibration	mm/s	Every Blast	1	0.29	0.29	10	No
R2	Blast Noise	dB (Lin Peak)	Every Blast	1	DNT	DNT	120	No
	Blast Vibration	mm/s	Every Blast	1	DNT	DNT	10	No
R4	Blast Noise	dB (Lin Peak)	Every Blast	1	DNT	DNT	120	No
	Blast Vibration	mm/s	Every Blast	1	DNT	DNT	10	No
R6	Blast Noise	dB (Lin Peak)	Every Blast	1	98.6	98.6	120	No
	Blast Vibration	mm/s	Every Blast	1	0.37	0.37	10	No

DNT – Indicates the blast did not trigger a result at the monitor.

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Figure 1 – EPL 12957 Monitoring Locations

