

NARRABRI MINE – MONTHLY MONITORING SUMMARY

Site Information

EPL No: 12789

EPA Website Link: <http://www.environment.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=31557&SYSUID=1&LICID=12789>

Licensee: Narrabri Coal Operations Pty Ltd

Licensee Address: Narrabri Mine, 10 Kurrajong Creek Road, BAAN BAA NSW 2390

EPL Monitoring Points: See Figure 1 below

Sampling Period: March 2012

Publication Date: 8th April 2013

Table 1 – No Pollutant Limits Apply

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Samples for the Month	Date Sampled	Date Obtained	Min Value	Mean Value	Median Value	Max or Only Value
ND3	Deposited Matter	g/m ² /month	Once a month (min. 4 weeks)	1	15-Mar-13	26-Mar-13	N/A	N/A	N/A	0.6
11	Conductivity	µs/cm	Upon discharge	0						
	TOC	mg/L		0						
12	Conductivity	µs/cm	Upon discharge	0						
	TOC	mg/L		0						
13	Conductivity	µs/cm	Upon discharge	0						
	TOC	mg/L		0						
14	Conductivity	µs/cm	Quarterly – Upon discharge	1	1-Mar-13	12-Mar-13	-	-	-	88
	TOC	mg/L		1	1-Mar-13	12-Mar-13	-	-	-	11
	Oil & Grease	mg/L		1	1-Mar-13	12-Mar-13	-	-	-	<5
	pH	pH		1	1-Mar-13	12-Mar-13	-	-	-	6.96
	TSS	mg/L		1	1-Mar-13	12-Mar-13	-	-	-	238
15	Conductivity	µs/cm	Quarterly – Upon discharge	1	1-Mar-13	12-Mar-13	-	-	-	206
	TOC	mg/L		1	1-Mar-13	12-Mar-13	-	-	-	10
	Oil & Grease	mg/L		1	1-Mar-13	12-Mar-13	-	-	-	<5
	pH	pH		1	1-Mar-13	12-Mar-13	-	-	-	7.15
	TSS	mg/L		1	1-Mar-13	12-Mar-13	-	-	-	322



EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Samples for the Month	Date Sampled	Date Obtained	Min Value	Mean Value	Median Value	Max or Only Value
16	Conductivity	µs/cm	Quarterly – Upon discharge	1	1-Mar-13	12-Mar-13	-	-	-	45
	TOC	mg/L		1	1-Mar-13	12-Mar-13	-	-	-	9
	Oil & Grease	mg/L		1	1-Mar-13	12-Mar-13	-	-	-	<5
	pH	pH		1	1-Mar-13	12-Mar-13	-	-	-	6.76
	TSS	mg/L		1	1-Mar-13	12-Mar-13	-	-	-	36
17	Conductivity	µs/cm	Quarterly – Upon discharge	1	1-Mar-13	12-Mar-13	-	-	-	204
	TOC	mg/L		1	1-Mar-13	12-Mar-13	-	-	-	17
	Oil & Grease	mg/L		1	1-Mar-13	12-Mar-13	-	-	-	<5
	pH	pH		1	1-Mar-13	12-Mar-13	-	-	-	7.33
	TSS	mg/L		1	1-Mar-13	12-Mar-13	-	-	-	27
18	Conductivity	µs/cm	Upon discharge	SD7 not yet constructed						
	TOC	mg/L								
19	Conductivity	µs/cm	Quarterly – Upon discharge	1	1-Mar-13	12-Mar-13	-	-	-	195
	TOC	mg/L		1	1-Mar-13	12-Mar-13	-	-	-	6
	Oil & Grease	mg/L		1	1-Mar-13	12-Mar-13	-	-	-	<5
	pH	pH		1	1-Mar-13	12-Mar-13	-	-	-	7.13
	TSS	mg/L		1	1-Mar-13	12-Mar-13	-	-	-	750
20	Conductivity	µs/cm	Quarterly – Upon discharge	1	1-Mar-13	12-Mar-13	-	-	-	89
	TOC	mg/L		1	1-Mar-13	12-Mar-13	-	-	-	16
	Oil & Grease	mg/L		1	1-Mar-13	12-Mar-13	-	-	-	<5
	pH	pH		1	1-Mar-13	12-Mar-13	-	-	-	6.83
	TSS	mg/L		1	1-Mar-13	12-Mar-13	-	-	-	322
21	Conductivity	µs/cm	Quarterly – Upon discharge	1	1-Mar-13	12-Mar-13	-	-	-	54
	TOC	mg/L		1	1-Mar-13	12-Mar-13	-	-	-	10
	Oil & Grease	mg/L		1	1-Mar-13	12-Mar-13	-	-	-	<5
	pH	pH		1	1-Mar-13	12-Mar-13	-	-	-	6.83
	TSS	mg/L		1	1-Mar-13	12-Mar-13	-	-	-	358
22	Conductivity	µs/cm	Quarterly – Upon discharge	1	1-Mar-13	12-Mar-13	-	-	-	55
	TOC	mg/L		1	1-Mar-13	12-Mar-13	-	-	-	8
	Oil & Grease	mg/L		1	1-Mar-13	12-Mar-13	-	-	-	<5
	pH	pH		1	1-Mar-13	12-Mar-13	-	-	-	6.78
	TSS	mg/L		1	1-Mar-13	12-Mar-13	-	-	-	234

Table 2 - Pollutant Limits Apply (Water)

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Samples for the Month	Date Sampled	Date Obtained	Min Value	Mean Value	Max Value	EPL Limit	Exceedance (Yes/No)	Comments
11	TSS	mg/L	Upon discharge	0						50		Dam – SD4
	Oil & Grease	mg/L		0						10		
	pH	pH		0						6.5-8.5		
12	TSS	mg/L	Upon discharge	0						50		Dam – SD5
	Oil & Grease	mg/L		0						10		
	pH	pH		0						6.5-8.5		
13	TSS	mg/L	Upon discharge	0						50		Dam – SD2
	Oil & Grease	mg/L		0						10		
	pH	pH		0						6.5-8.5		
18	TSS	mg/L	Upon discharge	SD7 not yet constructed								
	Oil & Grease	mg/L										
	pH	pH										

Table 3 – Monitoring (Quarterly Attended Noise – Limits Apply)

EPL ID	Date	Measured Levels – dB(A) <small>L_{eq} 15min Day</small>	Measured Levels – dB(A) <small>L_{eq} 15min Evening</small>	Measured Levels – dB(A) <small>L_{eq} 15min Night</small>	Measured Levels – dB(A) <small>L_{A1} (1 min) Night</small>	Limit(s)	Measurement Periods	Weather Compliant Conditions	Compliant (Yes/No)	Comments
N1	8-Mar-13	Inaudible	Inaudible	25	38	<u>Day, Evening & Night:</u> 35 <u>Night</u> <u>L_{A1} (1 min):</u> 45	Day – 1.5 hrs	Yes	Yes	Results are NM* sources
	9-Mar-13	Inaudible	Inaudible	Inaudible	n/a		Evening – 0.5 hrs	Yes	Yes	Results are NM sources
	10-Mar-13	<25	Inaudible	22	32		Night – 1 hr	Yes	Yes	Results are NM sources
N3	8-Mar-13	Inaudible	Inaudible	26	30	<u>Day, Evening & Night:</u> 35 <u>Night</u> <u>L_{A1} (1 min):</u> 45	Day – 1.5 hrs	Yes	Yes	Results are NM sources
	9-Mar-13	Inaudible	Inaudible	Inaudible	n/a		Evening – 0.5 hrs	Yes	Yes	Results are NM sources
	10-Mar-13	Inaudible	Inaudible	28	35		Night – 1 hr	Yes	Yes	Results are NM sources

EPL ID	Date	Measured Levels – dB(A) <small>L_{eq} 15min Day</small>	Measured Levels – dB(A) <small>L_{eq} 15min Evening</small>	Measured Levels – dB(A) <small>L_{eq} 15min Night</small>	Measured Levels – dB(A) <small>L_{A1} (1 min) Night</small>	Limit(s)	Measurement Periods	Weather Compliant Conditions	Compliant (Yes/No)	Comments
N5	8-Mar-13	Inaudible	Inaudible	<20	25	<u>Day, Evening & Night:</u> 35 <u>Night</u> <u>L_{A1} (1 min):</u> 45	Day – 1.5 hrs	Yes	Yes	Results are NM sources
	9-Mar-13	Inaudible	Inaudible	25	33		Evening – 0.5 hrs	Yes	Yes	Results are NM sources
	10-Mar-13	Inaudible	Inaudible	Inaudible	n/a		Night – 1 hr	Yes	Yes	Results are NM sources
N6	8-Mar-13	32	32	36	41	<u>Day, Evening & Night:</u> 35 <u>Night</u> <u>L_{A1} (1 min):</u> 45	Day – 1.5 hrs	Yes	Yes	Results are NM sources. Monitoring undertaken at mine boundary therefore levels at residence will be lower than reported.
	9-Mar-13	32	31	29	33		Evening – 0.5 hrs			
	10-Mar-13	34	33	32	36		Night – 1 hr			
N7	8-Mar-13	Inaudible	28	<15	20	<u>Day, Evening & Night:</u> 35 <u>Night</u> <u>L_{A1} (1 min):</u> 45	Day – 1.5 hrs	Yes	Yes	Results are NM sources
	9-Mar-13	Inaudible	Inaudible	Inaudible	n/a		Evening – 0.5 hrs	Yes	Yes	Results are NM sources
	10-Mar-13	<20	35	Inaudible	n/a		Night – 1 hr	Yes	Yes	Results are NM sources
N8	Monitoring at N8 to commence when surface activities approach the eastern end of the southern longwall panels.									

* NM = Narrabri Mine

Figure 1 – EPL 12789 Monitoring Locations

