

## NARRABRI MINE – MONTHLY MONITORING SUMMARY

### Site Information

**EPL No:** 12789

**EPA Website Link:** <http://www.environment.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=31486&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:** July 2012

**Publication Date:** 2<sup>nd</sup> August 2012

**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 <sup>2</sup> /month	Once a month (min. 4 weeks)	1	18-Jul-2012	25-Jul-2012	N/A	N/A	N/A	0.8
11	Conductivity	µs/cm	Upon discharge	0						
	TOC	mg/L		0						
12	Conductivity	µs/cm	Upon discharge	1	12-Jul-2012	23-Jul-2012	N/A	N/A	N/A	98
	TOC	mg/L		1	12-Jul-2012	23-Jul-2012	N/A	N/A	N/A	16
13	Conductivity	µs/cm	Upon discharge	1	13-Jul-2012	23-Jul-2012	N/A	N/A	N/A	205
	TOC	mg/L		1	13-Jul-2012	23-Jul-2012	N/A	N/A	N/A	14
14	Conductivity	µs/cm	Quarterly – Upon discharge	1	13-Jul-2012	23-Jul-2012	N/A	N/A	N/A	221
	TOC	mg/L		1	13-Jul-2012	23-Jul-2012	N/A	N/A	N/A	21
	Oil & Grease	mg/L		1	13-Jul-2012	23-Jul-2012	N/A	N/A	N/A	<5
	pH	pH		1	13-Jul-2012	23-Jul-2012	N/A	N/A	N/A	7.52
	TSS	mg/L		1	13-Jul-2012	23-Jul-2012	N/A	N/A	N/A	133
15	Conductivity	µs/cm	Quarterly – Upon discharge	1	12-Jul-2012	23-Jul-2012	N/A	N/A	N/A	230
	TOC	mg/L		1	12-Jul-2012	23-Jul-2012	N/A	N/A	N/A	14
	Oil & Grease	mg/L		1	12-Jul-2012	23-Jul-2012	N/A	N/A	N/A	<5
	pH	pH		1	12-Jul-2012	23-Jul-2012	N/A	N/A	N/A	7.65
	TSS	mg/L		1	12-Jul-2012	23-Jul-2012	N/A	N/A	N/A	88



# WHITEHAVEN COAL

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	12-Jul-2012	23-Jul-2012	N/A	N/A	N/A	50
	TOC	mg/L		1	12-Jul-2012	23-Jul-2012	N/A	N/A	N/A	15
	Oil & Grease	mg/L		1	12-Jul-2012	23-Jul-2012	N/A	N/A	N/A	<5
	pH	pH		1	12-Jul-2012	23-Jul-2012	N/A	N/A	N/A	6.86
	TSS	mg/L		1	12-Jul-2012	23-Jul-2012	N/A	N/A	N/A	32
17	Conductivity	µs/cm	Quarterly – Upon discharge	1	12-Jul-2012	23-Jul-2012	N/A	N/A	N/A	85
	TOC	mg/L		1	12-Jul-2012	23-Jul-2012	N/A	N/A	N/A	20
	Oil & Grease	mg/L		1	12-Jul-2012	23-Jul-2012	N/A	N/A	N/A	<5
	pH	pH		1	12-Jul-2012	23-Jul-2012	N/A	N/A	N/A	7.12
	TSS	mg/L		1	12-Jul-2012	23-Jul-2012	N/A	N/A	N/A	108
18	Conductivity	µs/cm	Upon discharge	SD7 not yet constructed						
	TOC	mg/L								
19	Conductivity	µs/cm	Quarterly – Upon discharge	1	12-Jul-2012	23-Jul-2012	N/A	N/A	N/A	62
	TOC	mg/L		1	12-Jul-2012	23-Jul-2012	N/A	N/A	N/A	13
	Oil & Grease	mg/L		1	12-Jul-2012	23-Jul-2012	N/A	N/A	N/A	<5
	pH	pH		1	12-Jul-2012	23-Jul-2012	N/A	N/A	N/A	7.11
	TSS	mg/L		1	12-Jul-2012	23-Jul-2012	N/A	N/A	N/A	229
20	Conductivity	µs/cm	Quarterly – Upon discharge	0			N/A	N/A	N/A	
	TOC	mg/L		0			N/A	N/A	N/A	
	Oil & Grease	mg/L		0			N/A	N/A	N/A	
	pH	pH		0			N/A	N/A	N/A	
	TSS	mg/L		0			N/A	N/A	N/A	
21	Conductivity	µs/cm	Quarterly – Upon discharge	1	12-Jul-2012	23-Jul-2012	N/A	N/A	N/A	47
	TOC	mg/L		1	12-Jul-2012	23-Jul-2012	N/A	N/A	N/A	8
	Oil & Grease	mg/L		1	12-Jul-2012	23-Jul-2012	N/A	N/A	N/A	<5
	pH	pH		1	12-Jul-2012	23-Jul-2012	N/A	N/A	N/A	7.00
	TSS	mg/L		1	12-Jul-2012	23-Jul-2012	N/A	N/A	N/A	142
22	Conductivity	µs/cm	Quarterly – Upon discharge	1	12-Jul-2012	23-Jul-2012	N/A	N/A	N/A	71
	TOC	mg/L		1	12-Jul-2012	23-Jul-2012	N/A	N/A	N/A	10
	Oil & Grease	mg/L		1	12-Jul-2012	23-Jul-2012	N/A	N/A	N/A	<5
	pH	pH		1	12-Jul-2012	23-Jul-2012	N/A	N/A	N/A	7.43
	TSS	mg/L		1	12-Jul-2012	23-Jul-2012	N/A	N/A	N/A	53

**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 or Only 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	1	12-Jul-2012	23-Jul-2012	N/A	N/A	122	50	No	Dam – SD5. TSS not exceeded as received >38.4mm of rain prior to discharge
	Oil & Grease	mg/L		1	12-Jul-2012	23-Jul-2012	N/A	N/A	<5	10	No	
	pH	pH		1	12-Jul-2012	23-Jul-2012	N/A	N/A	7.33	6.5-8.5	No	
13	TSS	mg/L	Upon discharge	1	13-Jul-2012	23-Jul-2012	N/A	N/A	20	50	No	Dam – SD2
	Oil & Grease	mg/L		1	13-Jul-2012	23-Jul-2012	N/A	N/A	<5	10	No	
	pH	pH		1	13-Jul-2012	23-Jul-2012	N/A	N/A	7.83	6.5-8.5	No	
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) $L_{eq}$ 15min Day	Measured Levels – dB(A) $L_{eq}$ 15min Evening	Measured Levels – dB(A) $L_{eq}$ 15min Night	Measured Levels – dB(A) $L_{A1}$ (1 min) Night	Limit(s)	Measurement Periods	Weather	Compliant (Yes/No)	Comments
N1	Not Required					<u>Day, Evening &amp; Night:</u> 35 <u>Night</u> <u><math>L_{A1}</math> (1 min):</u> 45	Day – 1.5 hrs			
							Evening – 0.5 hrs			
								Night – 1 hr		

EPL ID	Date	Measured Levels – dB(A) <small>L<sub>eq</sub> 15min Day</small>	Measured Levels – dB(A) <small>L<sub>eq</sub> 15min Evening</small>	Measured Levels – dB(A) <small>L<sub>eq</sub> 15min Night</small>	Measured Levels – dB(A) <small>L<sub>A1</sub> (1 min) Night</small>	Limit(s)	Measurement Periods	Weather	Compliant (Yes/No)	Comments
N3	Not Required					<u>Day, Evening &amp; Night:</u> 35 <u>Night</u> <u>L<sub>A1</sub> (1 min):</u> 45	Day – 1.5 hrs			
							Evening – 0.5 hrs			
								Night – 1 hr		
N5	Not Required					<u>Day, Evening &amp; Night:</u> 35 <u>Night</u> <u>L<sub>A1</sub> (1 min):</u> 45	Day – 1.5 hrs			
							Evening – 0.5 hrs			
								Night – 1 hr		
N6	Not Required					<u>Day, Evening &amp; Night:</u> 35 <u>Night</u> <u>L<sub>A1</sub> (1 min):</u> 45	Day – 1.5 hrs			
							Evening – 0.5 hrs			
								Night – 1 hr		
N7	Not Required					<u>Day, Evening &amp; Night:</u> 35 <u>Night</u> <u>L<sub>A1</sub> (1 min):</u> 45	Day – 1.5 hrs			
							Evening – 0.5 hrs			
								Night – 1 hr		
N8	<u>Monitoring at N8 to commence when surface activities approach the eastern end of the southern longwall panels.</u>									

Figure 1 – EPL 12789 Monitoring Locations

