

NARRABRI MINE – MONTHLY MONITORING SUMMARY

Site Information

EPL No: 12789

EPA Website Link: <http://www.epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=34050&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: August 2014

Publication Date: 9th September 2014

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	13-Aug-14	21-Aug-14	N/A	N/A	N/A	1.2
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	0						
	TOC	mg/L		0						
	Oil & Grease	mg/L		0						
	pH	pH		0						
	TSS	mg/L		0						
15	Conductivity	µs/cm	Quarterly – Upon discharge	1	27-Aug-14	4-Sep-14	N/A	N/A	N/A	116
	TOC	mg/L		1	27-Aug-14	4-Sep-14	N/A	N/A	N/A	15
	Oil & Grease	mg/L		1	27-Aug-14	4-Sep-14	N/A	N/A	N/A	<5
	pH	pH		1	27-Aug-14	4-Sep-14	N/A	N/A	N/A	7.48
	TSS	mg/L		1	27-Aug-14	4-Sep-14	N/A	N/A	N/A	56



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	27-Aug-14	4-Sep-14	N/A	N/A	N/A	52
	TOC	mg/L		1	27-Aug-14	4-Sep-14	N/A	N/A	N/A	16
	Oil & Grease	mg/L		1	27-Aug-14	4-Sep-14	N/A	N/A	N/A	<5
	pH	pH		1	27-Aug-14	4-Sep-14	N/A	N/A	N/A	6.91
	TSS	mg/L		1	27-Aug-14	4-Sep-14	N/A	N/A	N/A	42
17	Conductivity	µs/cm	Quarterly – Upon discharge	1	27-Aug-14	4-Sep-14	N/A	N/A	N/A	50
	TOC	mg/L		1	27-Aug-14	4-Sep-14	N/A	N/A	N/A	21
	Oil & Grease	mg/L		1	27-Aug-14	4-Sep-14	N/A	N/A	N/A	<5
	pH	pH		1	27-Aug-14	4-Sep-14	N/A	N/A	N/A	6.8
	TSS	mg/L		1	27-Aug-14	4-Sep-14	N/A	N/A	N/A	28
18	Conductivity	µs/cm	Upon discharge	SD7 not yet constructed						
	TOC	mg/L								
19	Conductivity	µs/cm	Quarterly – Upon discharge	1	27-Aug-14	4-Sep-14	N/A	N/A	N/A	353
	TOC	mg/L		1	27-Aug-14	4-Sep-14	N/A	N/A	N/A	11
	Oil & Grease	mg/L		1	27-Aug-14	4-Sep-14	N/A	N/A	N/A	<5
	pH	pH		1	27-Aug-14	4-Sep-14	N/A	N/A	N/A	7.14
	TSS	mg/L		1	27-Aug-14	4-Sep-14	N/A	N/A	N/A	98
20	Conductivity	µs/cm	Quarterly – Upon discharge	1	27-Aug-14	4-Sep-14	N/A	N/A	N/A	203
	TOC	mg/L		1	27-Aug-14	4-Sep-14	N/A	N/A	N/A	11
	Oil & Grease	mg/L		1	27-Aug-14	4-Sep-14	N/A	N/A	N/A	<5
	pH	pH		1	27-Aug-14	4-Sep-14	N/A	N/A	N/A	7.11
	TSS	mg/L		1	27-Aug-14	4-Sep-14	N/A	N/A	N/A	113
21	Conductivity	µs/cm	Quarterly – Upon discharge	1	27-Aug-14	4-Sep-14	N/A	N/A	N/A	98
	TOC	mg/L		1	27-Aug-14	4-Sep-14	N/A	N/A	N/A	12
	Oil & Grease	mg/L		1	27-Aug-14	4-Sep-14	N/A	N/A	N/A	<5
	pH	pH		1	27-Aug-14	4-Sep-14	N/A	N/A	N/A	7.35
	TSS	mg/L		1	27-Aug-14	4-Sep-14	N/A	N/A	N/A	238
22	Conductivity	µs/cm	Quarterly – Upon discharge	1	27-Aug-14	4-Sep-14	N/A	N/A	N/A	77
	TOC	mg/L		1	27-Aug-14	4-Sep-14	N/A	N/A	N/A	12
	Oil & Grease	mg/L		1	27-Aug-14	4-Sep-14	N/A	N/A	N/A	<5
	pH	pH		1	27-Aug-14	4-Sep-14	N/A	N/A	N/A	7.41
	TSS	mg/L		1	27-Aug-14	4-Sep-14	N/A	N/A	N/A	16

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) $L_{eq\ 15min\ Day}$	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 Conditions	Compliant (Yes/No)	Comments
N1	Not Required					<u>Day, Evening & Night:</u> 35 <u>Night</u> $L_{A1\ (1\ min):}$ 45	Day – 1.5 hrs			
							Evening – 0.5 hrs			
								Night – 1 hr		
N3	Not Required					<u>Day, Evening & Night:</u> 35 <u>Night</u> $L_{A1\ (1\ min):}$ 45	Day – 1.5 hrs			
							Evening – 0.5 hrs			
								Night – 1 hr		

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 Conditions	Compliant (Yes/No)	Comments
N5	Not Required					<u>Day, Evening & Night:</u> 35 <u>Night</u> <u>L_{A1} (1 min):</u> 45	Day – 1.5 hrs			
							Evening – 0.5 hrs			
								Night – 1 hr		
N6	Not Required					<u>Day, Evening & Night:</u> 35 <u>Night</u> <u>L_{A1} (1 min):</u> 45	Day – 1.5 hrs			
							Evening – 0.5 hrs			
								Night – 1 hr		
N7	Not Required					<u>Day, Evening & Night:</u> 35 <u>Night</u> <u>L_{A1} (1 min):</u> 45	Day – 1.5 hrs			
							Evening – 0.5 hrs			
								Night – 1 hr		
N8	Monitoring at N8 to commence when surface activities approach the eastern end of the southern longwall panels.									

Figure 1 – EPL 12789 Monitoring Locations

