

**NARRABRI MINE – MONTHLY MONITORING SUMMARY**

**Site Information**

**EPL No:** 12789

**EPA Website Link:** <http://www.epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=106922&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:** January 2017

**Obtained Date:** 17 January 2017

**Publication Date:** 25 January 2017

**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	10-Jan-17	17-Jan-17	N/A	N/A	N/A	0.7
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	0						
	TOC	mg/L		0						
	Oil & Grease	mg/L		0						
	pH	pH		0						
	TSS	mg/L		0						

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	0						
	TOC	mg/L		0						
	Oil & Grease	mg/L		0						
	pH	pH		0						
	TSS	mg/L		0						
17	Conductivity	µs/cm	Quarterly – Upon discharge	0						
	TOC	mg/L		0						
	Oil & Grease	mg/L		0						
	pH	pH		0						
	TSS	mg/L		0						
18	Conductivity	µs/cm	Upon discharge	SD7 not yet constructed						
	TOC	mg/L								
19	Conductivity	µs/cm	Quarterly – Upon discharge	0						
	TOC	mg/L		0						
	Oil & Grease	mg/L		0						
	pH	pH		0						
	TSS	mg/L		0						
20	Conductivity	µs/cm	Quarterly – Upon discharge	0						
	TOC	mg/L		0						
	Oil & Grease	mg/L		0						
	pH	pH		0						
	TSS	mg/L		0						
21	Conductivity	µs/cm	Quarterly – Upon discharge	0						
	TOC	mg/L		0						
	Oil & Grease	mg/L		0						
	pH	pH		0						
	TSS	mg/L		0						
22	Conductivity	µs/cm	Quarterly – Upon discharge	0						
	TOC	mg/L		0						
	Oil & Grease	mg/L		0						
	pH	pH		0						



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
	TSS	mg/L		0						

**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								Dam – SD5
	Oil & Grease	mg/L		0								
	pH	pH		0								
13	TSS	mg/L	Upon discharge	0								Dam – SD2
	Oil & Grease	mg/L		0								
	pH	pH		0								
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) Leq 15min Day	Measured Levels – dB(A) Leq 15min Evening	Measured Levels – dB(A) Leq 15min Night	Measured Levels – dB(A) LA1 (1 min) Night	Limit(s)	Measurement Periods	Weather Compliant Conditions	Compliant (Yes/No)	Comments	Date Obtained
N5	Not required					<u>Day, Evening &amp; Night:</u> 35 <u>Night</u> <u>LA1 (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>LA1 (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>LA1 (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



**NARRABRI MINE – MONTHLY MONITORING SUMMARY**

**Site Information**

**EPL No:** 12789

**EPA Website Link:** <http://www.epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=106922&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:** February 2017

**Obtained Date:** 20 February 2017

**Publication Date:** 21 February 2017

**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	10-Feb-17	20-Feb-17	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	0						
	TOC	mg/L		0						
	Oil & Grease	mg/L		0						
	pH	pH		0						
	TSS	mg/L		0						
15	Conductivity	µs/cm	Quarterly – Upon discharge	0						
	TOC	mg/L		0						
	Oil & Grease	mg/L		0						
	pH	pH		0						
	TSS	mg/L		0						

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	0						
	TOC	mg/L		0						
	Oil & Grease	mg/L		0						
	pH	pH		0						
	TSS	mg/L		0						
17	Conductivity	µs/cm	Quarterly – Upon discharge	0						
	TOC	mg/L		0						
	Oil & Grease	mg/L		0						
	pH	pH		0						
	TSS	mg/L		0						
18	Conductivity	µs/cm	Upon discharge	SD7 not yet constructed						
	TOC	mg/L								
19	Conductivity	µs/cm	Quarterly – Upon discharge	0						
	TOC	mg/L		0						
	Oil & Grease	mg/L		0						
	pH	pH		0						
	TSS	mg/L		0						
20	Conductivity	µs/cm	Quarterly – Upon discharge	0						
	TOC	mg/L		0						
	Oil & Grease	mg/L		0						
	pH	pH		0						
	TSS	mg/L		0						
21	Conductivity	µs/cm	Quarterly – Upon discharge	0						
	TOC	mg/L		0						
	Oil & Grease	mg/L		0						
	pH	pH		0						
	TSS	mg/L		0						
22	Conductivity	µs/cm	Quarterly – Upon discharge	0						
	TOC	mg/L		0						
	Oil & Grease	mg/L		0						
	pH	pH		0						



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
	TSS	mg/L		0						

**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								Dam – SD5
	Oil & Grease	mg/L		0								
	pH	pH		0								
13	TSS	mg/L	Upon discharge	0								Dam – SD2
	Oil & Grease	mg/L		0								
	pH	pH		0								
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) Leq 15min Day	Measured Levels – dB(A) Leq 15min Evening	Measured Levels – dB(A) Leq 15min Night	Measured Levels – dB(A) LA1 (1 min) Night	Limit(s)	Measurement Periods	Weather Compliant Conditions	Compliant (Yes/No)	Comments	Date Obtained
N5	Not required					<u>Day, Evening &amp; Night:</u> 35 <u>Night</u> <u>LA1 (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>LA1 (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>LA1 (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



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**Site Information**

**EPL No:** 12789

**EPA Website Link:** <http://www.epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=106922&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 2017

**Obtained Date:** 3 May 2017

**Publication Date:** 4 May 2017

**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	14-Mar-17	22-Mar-17	N/A	N/A	N/A	0.9
11	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	14-Mar-17	21-Mar-17	N/A	N/A	N/A	107
	TOC	mg/L		1	14-Mar-17	21-Mar-17	N/A	N/A	N/A	15
	Oil & Grease	mg/L		1	14-Mar-17	21-Mar-17	N/A	N/A	N/A	<5
	pH	pH		1	14-Mar-17	21-Mar-17	N/A	N/A	N/A	6.89
	TSS	mg/L		1	14-Mar-17	21-Mar-17	N/A	N/A	N/A	189
16	Conductivity	µs/cm	Quarterly – Upon	1	14-Mar-17	21-Mar-17	N/A	N/A	N/A	78
	TOC	mg/L		1	14-Mar-17	21-Mar-17	N/A	N/A	N/A	17

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
	Oil & Grease	mg/L	discharge	1	14-Mar-17	21-Mar-17	N/A	N/A	N/A	<5
	pH	pH		1	14-Mar-17	21-Mar-17	N/A	N/A	N/A	6.57
	TSS	mg/L		1	14-Mar-17	21-Mar-17	N/A	N/A	N/A	37
17	Conductivity	µs/cm	Quarterly – Upon discharge	0						
	TOC	mg/L		0						
	Oil & Grease	mg/L		0						
	pH	pH		0						
	TSS	mg/L		0						
18	Conductivity	µs/cm	Upon discharge	SD7 not yet constructed						
	TOC	mg/L								
19	Conductivity	µs/cm	Quarterly – Upon discharge	1	14-Mar-17	21-Mar-17	N/A	N/A	N/A	294
	TOC	mg/L		1	14-Mar-17	21-Mar-17	N/A	N/A	N/A	15
	Oil & Grease	mg/L		1	14-Mar-17	21-Mar-17	N/A	N/A	N/A	<5
	pH	pH		1	14-Mar-17	21-Mar-17	N/A	N/A	N/A	6.98
	TSS	mg/L		1	14-Mar-17	21-Mar-17	N/A	N/A	N/A	2180
20	Conductivity	µs/cm	Quarterly – Upon discharge	0						
	TOC	mg/L		0						
	Oil & Grease	mg/L		0						
	pH	pH		0						
	TSS	mg/L		0						
21	Conductivity	µs/cm	Quarterly – Upon discharge	1	14-Mar-17	21-Mar-17	N/A	N/A	N/A	77
	TOC	mg/L		1	14-Mar-17	21-Mar-17	N/A	N/A	N/A	14
	Oil & Grease	mg/L		1	14-Mar-17	21-Mar-17	N/A	N/A	N/A	<5
	pH	pH		1	14-Mar-17	21-Mar-17	N/A	N/A	N/A	6.79
	TSS	mg/L		1	14-Mar-17	21-Mar-17	N/A	N/A	N/A	626
22	Conductivity	µs/cm	Quarterly – Upon discharge	1	14-Mar-17	21-Mar-17	N/A	N/A	N/A	55
	TOC	mg/L		1	14-Mar-17	21-Mar-17	N/A	N/A	N/A	17
	Oil & Grease	mg/L		1	14-Mar-17	21-Mar-17	N/A	N/A	N/A	<5
	pH	pH		1	14-Mar-17	21-Mar-17	N/A	N/A	N/A	6.73
	TSS	mg/L		1	14-Mar-17	21-Mar-17	N/A	N/A	N/A	1210





**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		
13	TSS	mg/L	Upon discharge	0								Dam – SD2
	Oil & Grease	mg/L		0								
	pH	pH		0								
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) Leq 15min Day	Measured Levels – dB(A) Leq 15min Evening	Measured Levels – dB(A) Leq 15min Night	Measured Levels – dB(A) LA1 (1 min) Night	Limit(s)	Measurement Periods	Weather Compliant Conditions	Compliant (Yes/No)	Comments	Date Obtained
N5	27-Mar-17	<25	25	30	32	<u>Day, Evening &amp; Night:</u> 35 <u>Night</u> <u>LA1 (1 min):</u> 45	Day – 1.5 hrs	Yes	Yes	NM Sources Only	3-May-17
	28-Mar-17	20	<20	24	33		Evening – 0.5 hrs	Yes	Yes	NM Sources Only	3-May-17
	29-Mar-17	28	NA	NA	NA		Night – 1 hr	No	Yes	NM Sources Only	3-May-17
N6	27-Mar-17	<20	IA	20	24	<u>Day, Evening &amp; Night:</u> 35 <u>Night</u> <u>LA1 (1 min):</u> 45	Day – 1.5 hrs	Yes	Yes	NM Sources Only	3-May-17
	28-Mar-17	26	23	26	32		Evening – 0.5 hrs	Yes	Yes	NM Sources Only	3-May-17
	29-Mar-17	<30	IA	NA	NA		Night – 1 hr	No	Yes	NM Sources Only	3-May-17
N8	Monitoring at N8 to commence when surface activities approach the eastern end of the southern longwall panels.										

Note: 'NA' – denotes criteria were not applicable due to meteorological conditions for all measurements at this location during this period. 'IA' – Inaudible.



Figure 1 – EPL 12789 Monitoring Locations



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**Site Information**

**EPL No:** 12789

**EPA Website Link:** <http://www.epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=106922&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:** April 2017

**Obtained Date:** 1 May 2017

**Publication Date:** 4 May 2017

**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	12-Apr-17	1-May-17	N/A	N/A	N/A	0.5
11	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	0						
	TOC	mg/L		0						
	Oil & Grease	mg/L		0						
	pH	pH		0						
	TSS	mg/L		0						
16	Conductivity	µs/cm	Quarterly –	0						

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
	TOC	mg/L	Upon discharge	0						
	Oil & Grease	mg/L		0						
	pH	pH		0						
	TSS	mg/L		0						
17	Conductivity	µs/cm	Quarterly – Upon discharge	0						
	TOC	mg/L		0						
	Oil & Grease	mg/L		0						
	pH	pH		0						
	TSS	mg/L		0						
18	Conductivity	µs/cm	Upon discharge	SD7 not yet constructed						
	TOC	mg/L								
19	Conductivity	µs/cm	Quarterly – Upon discharge	0						
	TOC	mg/L		0						
	Oil & Grease	mg/L		0						
	pH	pH		0						
	TSS	mg/L		0						
20	Conductivity	µs/cm	Quarterly – Upon discharge	0						
	TOC	mg/L		0						
	Oil & Grease	mg/L		0						
	pH	pH		0						
	TSS	mg/L		0						
21	Conductivity	µs/cm	Quarterly – Upon discharge	0						
	TOC	mg/L		0						
	Oil & Grease	mg/L		0						
	pH	pH		0						
	TSS	mg/L		0						
22	Conductivity	µs/cm	Quarterly – Upon discharge	0						
	TOC	mg/L		0						
	Oil & Grease	mg/L		0						



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
	pH	pH		0						
	TSS	mg/L		0						

**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		
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) Leq 15min Day	Measured Levels – dB(A) Leq 15min Evening	Measured Levels – dB(A) Leq 15min Night	Measured Levels – dB(A) LA1 (1 min) Night	Limit(s)	Measurement Periods	Weather Compliant Conditions	Compliant (Yes/No)	Comments	Date Obtained	
N5	Not required					<u>Day, Evening &amp; Night:</u> 35 <u>Night</u> <u>LA1 (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>LA1 (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





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**Site Information**

**EPL No:** 12789

**EPA Website Link:** <http://www.epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=106922&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:** May 2017

**Obtained Date:** 22 May 2017

**Publication Date:** 25 May 2017

**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	12-May-17	22-May-17	N/A	N/A	N/A	1.2
11	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	0						
	TOC	mg/L		0						
	Oil & Grease	mg/L		0						
	pH	pH		0						
	TSS	mg/L		0						
16	Conductivity	µs/cm	Quarterly –	0						

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
	TOC	mg/L	Upon discharge	0						
	Oil & Grease	mg/L		0						
	pH	pH		0						
	TSS	mg/L		0						
17	Conductivity	µs/cm	Quarterly – Upon discharge	0						
	TOC	mg/L		0						
	Oil & Grease	mg/L		0						
	pH	pH		0						
	TSS	mg/L		0						
18	Conductivity	µs/cm	Upon discharge	SD7 not yet constructed						
	TOC	mg/L								
19	Conductivity	µs/cm	Quarterly – Upon discharge	0						
	TOC	mg/L		0						
	Oil & Grease	mg/L		0						
	pH	pH		0						
	TSS	mg/L		0						
20	Conductivity	µs/cm	Quarterly – Upon discharge	0						
	TOC	mg/L		0						
	Oil & Grease	mg/L		0						
	pH	pH		0						
	TSS	mg/L		0						
21	Conductivity	µs/cm	Quarterly – Upon discharge	0						
	TOC	mg/L		0						
	Oil & Grease	mg/L		0						
	pH	pH		0						
	TSS	mg/L		0						
22	Conductivity	µs/cm	Quarterly – Upon discharge	0						
	TOC	mg/L		0						
	Oil & Grease	mg/L		0						



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
	pH	pH		0						
	TSS	mg/L		0						

**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		
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) Leq 15min Day	Measured Levels – dB(A) Leq 15min Evening	Measured Levels – dB(A) Leq 15min Night	Measured Levels – dB(A) LA1 (1 min) Night	Limit(s)	Measurement Periods	Weather Compliant Conditions	Compliant (Yes/No)	Comments	Date Obtained
N5	Not required					<u>Day, Evening &amp; Night:</u> 35 <u>Night</u> <u>LA1 (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>LA1 (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



**NARRABRI MINE – MONTHLY MONITORING SUMMARY**

**Site Information**

**EPL No:** 12789

**EPA Website Link:** <http://www.epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=106922&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:** June 2017

**Obtained Date:** 2 August 2017

**Publication Date:** 8 August 2017

**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	13-Jun-17	20-Jun-17	N/A	N/A	N/A	1.5
11	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	29-Jun-17	7-Jul-17	NA	NA	NA	180
	TOC	mg/L		1	29-Jun-17	7-Jul-17	NA	NA	NA	20
	Oil & Grease	mg/L		1	29-Jun-17	7-Jul-17	NA	NA	NA	<5
	pH	pH		1	29-Jun-17	7-Jul-17	NA	NA	NA	7.78
	TSS	mg/L		1	29-Jun-17	7-Jul-17	NA	NA	NA	103
16	Conductivity	µs/cm	Quarterly – Upon	1	29-Jun-17	7-Jul-17	NA	NA	NA	70
	TOC	mg/L		1	29-Jun-17	7-Jul-17	NA	NA	NA	28



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
	Oil & Grease	mg/L	discharge	1	29-Jun-17	7-Jul-17	NA	NA	NA	<5
	pH	pH		1	29-Jun-17	7-Jul-17	NA	NA	NA	7.14
	TSS	mg/L		1	29-Jun-17	7-Jul-17	NA	NA	NA	40
17	Conductivity	µs/cm	Quarterly – Upon discharge	0						
	TOC	mg/L		0						
	Oil & Grease	mg/L		0						
	pH	pH		0						
	TSS	mg/L		0						
18	Conductivity	µs/cm	Upon discharge	SD7 not yet constructed						
	TOC	mg/L								
19	Conductivity	µs/cm	Quarterly – Upon discharge	1	29-Jun-17	7-Jul-17	NA	NA	NA	82
	TOC	mg/L		1	29-Jun-17	7-Jul-17	NA	NA	NA	14
	Oil & Grease	mg/L		1	29-Jun-17	7-Jul-17	NA	NA	NA	<5
	pH	pH		1	29-Jun-17	7-Jul-17	NA	NA	NA	7.23
	TSS	mg/L		1	29-Jun-17	7-Jul-17	NA	NA	NA	222
20	Conductivity	µs/cm	Quarterly – Upon discharge	0						
	TOC	mg/L		0						
	Oil & Grease	mg/L		0						
	pH	pH		0						
	TSS	mg/L		0						
21	Conductivity	µs/cm	Quarterly – Upon discharge	1	29-Jun-17	7-Jul-17	NA	NA	NA	58
	TOC	mg/L		1	29-Jun-17	7-Jul-17	NA	NA	NA	10
	Oil & Grease	mg/L		1	29-Jun-17	7-Jul-17	NA	NA	NA	<5
	pH	pH		1	29-Jun-17	7-Jul-17	NA	NA	NA	7.12
	TSS	mg/L		1	29-Jun-17	7-Jul-17	NA	NA	NA	144
22	Conductivity	µs/cm	Quarterly – Upon discharge	2	12, 29-Jun-17	7-Jul-17	697	797	797	897
	TOC	mg/L		2	12, 29-Jun-17	7-Jul-17	20	24	24	28
	Oil & Grease	mg/L		2	12, 29-Jun-17	7-Jul-17	<5	<5	<5	<5



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
	pH	pH		2	12, 29-Jun-17	7-Jul-17	9.42	9.48	9.48	9.54
	TSS	mg/L		2	12, 29-Jun-17	7-Jul-17	152	189	189	225

**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		
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) Leq 15min Day	Measured Levels – dB(A) Leq 15min Evening	Measured Levels – dB(A) Leq 15min Night	Measured Levels – dB(A) LA1 (1 min) Night	Limit(s)	Measurement Periods	Weather Compliant Conditions	Compliant (Yes/No)	Comments	Date Obtained
N5	26-Jun-17	IA	IA	<20	20	<u>Day, Evening &amp; Night:</u> 35 <u>Night</u> <u>LA1 (1 min):</u> 45	Day – 1.5 hrs	Yes	Yes	NM sources only	2-Aug-17
	27-Jun-17	33	<25	<b>37</b>	<b>46</b>		Evening – 0.5 hrs	Yes	No	NM sources only	2-Aug-17
	28, 29-Jun-17	28	<25	IA	IA		Night – 1 hr	Yes	Yes	NM sources only	2-Aug-17
N6	26-Jun-17	<25	31	32	44	<u>Day, Evening &amp; Night:</u> 35 <u>Night</u> <u>LA1 (1 min):</u> 45	Day – 1.5 hrs	Yes	Yes	NM sources only	2-Aug-17
	27-Jun-17	31	IA	NM	33		Evening – 0.5 hrs	Yes	Yes	NM sources only	2-Aug-17
	28, 29-Jun-17	34	33	<b>38</b>	42		Night – 1 hr	Yes	No	NM sources only	2-Aug-17
<b>N8</b>	<u>Monitoring at N8 to commence when surface activities approach the eastern end of the southern longwall panels.</u>										

Note: 'NM' – Not Measurable. 'IA' – Inaudible.

Figure 1 – EPL 12789 Monitoring Locations





**NARRABRI MINE – MONTHLY MONITORING SUMMARY**

**Site Information**

**EPL No:** 12789

**EPA Website Link:** <http://www.epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=106922&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 2017

**Obtained Date:** 26 July 2017

**Publication Date:** 28 July 2017

**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	14-Jul-17	26-Jul-17	N/A	N/A	N/A	2.3
11	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	0						
	TOC	mg/L		0						
	Oil & Grease	mg/L		0						
	pH	pH		0						
	TSS	mg/L		0						
16	Conductivity	µs/cm	Quarterly –	0						



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
	TOC	mg/L	Upon discharge	0						
	Oil & Grease	mg/L		0						
	pH	pH		0						
	TSS	mg/L		0						
17	Conductivity	µs/cm	Quarterly – Upon discharge	0						
	TOC	mg/L		0						
	Oil & Grease	mg/L		0						
	pH	pH		0						
	TSS	mg/L		0						
18	Conductivity	µs/cm	Upon discharge	SD7 not yet constructed						
	TOC	mg/L								
19	Conductivity	µs/cm	Quarterly – Upon discharge	0						
	TOC	mg/L		0						
	Oil & Grease	mg/L		0						
	pH	pH		0						
	TSS	mg/L		0						
20	Conductivity	µs/cm	Quarterly – Upon discharge	0						
	TOC	mg/L		0						
	Oil & Grease	mg/L		0						
	pH	pH		0						
	TSS	mg/L		0						
21	Conductivity	µs/cm	Quarterly – Upon discharge	0						
	TOC	mg/L		0						
	Oil & Grease	mg/L		0						
	pH	pH		0						
	TSS	mg/L		0						
22	Conductivity	µs/cm	Quarterly – Upon discharge	0						
	TOC	mg/L		0						
	Oil & Grease	mg/L		0						





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
	pH	pH		0						
	TSS	mg/L		0						

**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		
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) Leq 15min Day	Measured Levels – dB(A) Leq 15min Evening	Measured Levels – dB(A) Leq 15min Night	Measured Levels – dB(A) LA1 (1 min) Night	Limit(s)	Measurement Periods	Weather Compliant Conditions	Compliant (Yes/No)	Comments	Date Obtained
N5	Not required					<u>Day, Evening &amp; Night:</u> 35 <u>Night</u> <u>LA1 (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>LA1 (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



**NARRABRI MINE – MONTHLY MONITORING SUMMARY**

**Site Information**

**EPL No:** 12789

**EPA Website Link:** <http://www.epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=106922&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 2017

**Obtained Date:** 28 August 2017

**Publication Date:** 29 August 2017

**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	15-Aug-17	28-Aug-17	N/A	N/A	N/A	1.9
11	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	0						
	TOC	mg/L		0						
	Oil & Grease	mg/L		0						
	pH	pH		0						
	TSS	mg/L		0						
16	Conductivity	µs/cm	Quarterly –	0						



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
	TOC	mg/L	Upon discharge	0						
	Oil & Grease	mg/L		0						
	pH	pH		0						
	TSS	mg/L		0						
17	Conductivity	µs/cm	Quarterly – Upon discharge	0						
	TOC	mg/L		0						
	Oil & Grease	mg/L		0						
	pH	pH		0						
	TSS	mg/L		0						
18	Conductivity	µs/cm	Upon discharge	SD7 not yet constructed						
	TOC	mg/L								
19	Conductivity	µs/cm	Quarterly – Upon discharge	0						
	TOC	mg/L		0						
	Oil & Grease	mg/L		0						
	pH	pH		0						
	TSS	mg/L		0						
20	Conductivity	µs/cm	Quarterly – Upon discharge	0						
	TOC	mg/L		0						
	Oil & Grease	mg/L		0						
	pH	pH		0						
	TSS	mg/L		0						
21	Conductivity	µs/cm	Quarterly – Upon discharge	0						
	TOC	mg/L		0						
	Oil & Grease	mg/L		0						
	pH	pH		0						
	TSS	mg/L		0						
22	Conductivity	µs/cm	Quarterly – Upon discharge	0						
	TOC	mg/L		0						
	Oil & Grease	mg/L		0						





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
	pH	pH		0						
	TSS	mg/L		0						

**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		
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) Leq 15min Day	Measured Levels – dB(A) Leq 15min Evening	Measured Levels – dB(A) Leq 15min Night	Measured Levels – dB(A) LA1 (1 min) Night	Limit(s)	Measurement Periods	Weather Compliant Conditions	Compliant (Yes/No)	Comments	Date Obtained	
N5	Not required					<u>Day, Evening &amp; Night:</u> 35 <u>Night</u> <u>LA1 (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>LA1 (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



**NARRABRI MINE – MONTHLY MONITORING SUMMARY**

**Site Information**

**EPL No:** 12789

**EPA Website Link:** <http://www.epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=106922&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:** September 2017

**Obtained Date:** 14 December 2017

**Publication Date:** 14 December 2017

**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	15-Sep-17	27-Sep-17	N/A	N/A	N/A	1.2
11	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	0						
	TOC	mg/L		0						
	Oil & Grease	mg/L		0						
	pH	pH		0						
	TSS	mg/L		0						
16	Conductivity	µs/cm	Quarterly –	0						



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
	TOC	mg/L	Upon discharge	0						
	Oil & Grease	mg/L		0						
	pH	pH		0						
	TSS	mg/L		0						
17	Conductivity	µs/cm	Quarterly – Upon discharge	0						
	TOC	mg/L		0						
	Oil & Grease	mg/L		0						
	pH	pH		0						
	TSS	mg/L		0						
18	Conductivity	µs/cm	Upon discharge	SD7 not yet constructed						
	TOC	mg/L								
19	Conductivity	µs/cm	Quarterly – Upon discharge	0						
	TOC	mg/L		0						
	Oil & Grease	mg/L		0						
	pH	pH		0						
	TSS	mg/L		0						
20	Conductivity	µs/cm	Quarterly – Upon discharge	0						
	TOC	mg/L		0						
	Oil & Grease	mg/L		0						
	pH	pH		0						
	TSS	mg/L		0						
21	Conductivity	µs/cm	Quarterly – Upon discharge	0						
	TOC	mg/L		0						
	Oil & Grease	mg/L		0						
	pH	pH		0						
	TSS	mg/L		0						
22	Conductivity	µs/cm	Quarterly – Upon discharge	0						
	TOC	mg/L		0						
	Oil & Grease	mg/L		0						





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
	pH	pH		0						
	TSS	mg/L		0						

**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		
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<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 Conditions	Compliant (Yes/No)	Comments	Date Obtained
<b>N5</b>	5-Sep-17	NA	<25	NA	NA	<u>Day, Evening &amp; Night:</u> 35 <u>Night</u> <u>L<sub>A1</sub> (1 min):</u> 45	Day – 1.5 hrs	No	Yes	NM Sources Only	14-Dec-17
	6-Sep-17	NA	NA	NA	NA		Evening – 0.5 hrs	No	Yes	NM Sources Only	14-Dec-17
	7-Sep-17	NA	<30	24	27		Night – 1 hr	No	Yes	NM Sources Only	14-Dec-17
<b>N6</b>	5-Sep-17	NA	35	NA	NA	<u>Day, Evening &amp; Night:</u> 35 <u>Night</u> <u>L<sub>A1</sub> (1 min):</u> 45	Day – 1.5 hrs	No	Yes	NM Sources Only	14-Dec-17
	6-Sep-17	NA	NA	NA	NA		Evening – 0.5 hrs	No	Yes	NM Sources Only	14-Dec-17
	7-Sep-17	30	33	<b>36</b>	45		Night – 1 hr	Yes	<b>No</b>	NM Sources Only	14-Dec-17
<b>N8</b>	Monitoring at N8 to commence when surface activities approach the eastern end of the southern longwall panels.										

Figure 1 – EPL 12789 Monitoring Locations





## NARRABRI MINE – MONTHLY MONITORING SUMMARY

### Site Information

**EPL No:** 12789

**EPA Website Link:** <http://www.epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=106922&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:** October 2017

**Obtained Date:** 26 October 2017

**Publication Date:** 1 November 2017

**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	13-Oct-17	26-Oct-17	N/A	N/A	N/A	2
11	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	0						
	TOC	mg/L		0						
	Oil & Grease	mg/L		0						
	pH	pH		0						
	TSS	mg/L		0						
16	Conductivity	µs/cm	Quarterly –	0						

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
	TOC	mg/L	Upon discharge	0						
	Oil & Grease	mg/L		0						
	pH	pH		0						
	TSS	mg/L		0						
17	Conductivity	µs/cm	Quarterly – Upon discharge	0						
	TOC	mg/L		0						
	Oil & Grease	mg/L		0						
	pH	pH		0						
	TSS	mg/L		0						
18	Conductivity	µs/cm	Upon discharge	SD7 not yet constructed						
	TOC	mg/L								
19	Conductivity	µs/cm	Quarterly – Upon discharge	0						
	TOC	mg/L		0						
	Oil & Grease	mg/L		0						
	pH	pH		0						
	TSS	mg/L		0						
20	Conductivity	µs/cm	Quarterly – Upon discharge	0						
	TOC	mg/L		0						
	Oil & Grease	mg/L		0						
	pH	pH		0						
	TSS	mg/L		0						
21	Conductivity	µs/cm	Quarterly – Upon discharge	0						
	TOC	mg/L		0						
	Oil & Grease	mg/L		0						
	pH	pH		0						
	TSS	mg/L		0						
22	Conductivity	µs/cm	Quarterly – Upon discharge	0						
	TOC	mg/L		0						
	Oil & Grease	mg/L		0						





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
	pH	pH		0						
	TSS	mg/L		0						

**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		
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) Leq 15min Day	Measured Levels – dB(A) Leq 15min Evening	Measured Levels – dB(A) Leq 15min Night	Measured Levels – dB(A) LA1 (1 min) Night	Limit(s)	Measurement Periods	Weather Compliant Conditions	Compliant (Yes/No)	Comments	Date Obtained
N5	Not required					<u>Day, Evening &amp; Night:</u> 35 <u>Night</u> <u>LA1 (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>LA1 (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



**NARRABRI MINE – MONTHLY MONITORING SUMMARY**

**Site Information**

**EPL No:** 12789

**EPA Website Link:** <http://www.epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=106922&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:** November 2017

**Obtained Date:** 27 November 2017

**Publication Date:** 14 December 2017

**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	13-Nov-17	27-Nov-17	N/A	N/A	N/A	1
11	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	0						
	TOC	mg/L		0						
	Oil & Grease	mg/L		0						
	pH	pH		0						
	TSS	mg/L		0						
16	Conductivity	µs/cm	Quarterly –	0						

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
	TOC	mg/L	Upon discharge	0						
	Oil & Grease	mg/L		0						
	pH	pH		0						
	TSS	mg/L		0						
17	Conductivity	µs/cm	Quarterly – Upon discharge	0						
	TOC	mg/L		0						
	Oil & Grease	mg/L		0						
	pH	pH		0						
	TSS	mg/L		0						
18	Conductivity	µs/cm	Upon discharge	SD7 not yet constructed						
	TOC	mg/L								
19	Conductivity	µs/cm	Quarterly – Upon discharge	0						
	TOC	mg/L		0						
	Oil & Grease	mg/L		0						
	pH	pH		0						
	TSS	mg/L		0						
20	Conductivity	µs/cm	Quarterly – Upon discharge	0						
	TOC	mg/L		0						
	Oil & Grease	mg/L		0						
	pH	pH		0						
	TSS	mg/L		0						
21	Conductivity	µs/cm	Quarterly – Upon discharge	0						
	TOC	mg/L		0						
	Oil & Grease	mg/L		0						
	pH	pH		0						
	TSS	mg/L		0						
22	Conductivity	µs/cm	Quarterly – Upon discharge	0						
	TOC	mg/L		0						
	Oil & Grease	mg/L		0						





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
	pH	pH		0						
	TSS	mg/L		0						

**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		
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) <i>L<sub>eq</sub> 15min Day</i>	Measured Levels – dB(A) <i>L<sub>eq</sub> 15min Evening</i>	Measured Levels – dB(A) <i>L<sub>eq</sub> 15min Night</i>	Measured Levels – dB(A) <i>L<sub>A1</sub> (1 min) Night</i>	Limit(s)	Measurement Periods	Weather Compliant Conditions	Compliant (Yes/No)	Comments	Date Obtained
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			
N8	Monitoring at N8 to commence when surface activities approach the eastern end of the southern longwall panels.										

Figure 1 – EPL 12789 Monitoring Locations



**NARRABRI MINE – MONTHLY MONITORING SUMMARY**

**Site Information**

**EPL No:** 12789

**EPA Website Link:** <http://www.epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=106922&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:** December 2017

**Obtained Date:** 2 February 2018

**Publication Date:** 7 February 2018

**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	14-Dec-17	21-Dec-17	N/A	N/A	N/A	7.3
11	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	0						
	TOC	mg/L		0						
	Oil & Grease	mg/L		0						
	pH	pH		0						
	TSS	mg/L		0						
16	Conductivity	µs/cm	Quarterly –	0						

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
	TOC	mg/L	Upon discharge	0						
	Oil & Grease	mg/L		0						
	pH	pH		0						
	TSS	mg/L		0						
17	Conductivity	µs/cm	Quarterly – Upon discharge	0						
	TOC	mg/L		0						
	Oil & Grease	mg/L		0						
	pH	pH		0						
	TSS	mg/L		0						
18	Conductivity	µs/cm	Upon discharge	SD7 not yet constructed						
	TOC	mg/L								
19	Conductivity	µs/cm	Quarterly – Upon discharge	0						
	TOC	mg/L		0						
	Oil & Grease	mg/L		0						
	pH	pH		0						
	TSS	mg/L		0						
20	Conductivity	µs/cm	Quarterly – Upon discharge	0						
	TOC	mg/L		0						
	Oil & Grease	mg/L		0						
	pH	pH		0						
	TSS	mg/L		0						
21	Conductivity	µs/cm	Quarterly – Upon discharge	0						
	TOC	mg/L		0						
	Oil & Grease	mg/L		0						
	pH	pH		0						
	TSS	mg/L		0						
22	Conductivity	µs/cm	Quarterly – Upon discharge	0						
	TOC	mg/L		0						
	Oil & Grease	mg/L		0						





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
	pH	pH		0						
	TSS	mg/L		0						

**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		
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<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 Conditions	Compliant (Yes/No)	Comments	Date Obtained
N5	18-Dec-17	NA	NA	<30	33	<u>Day, Evening &amp; Night:</u> 35 <u>Night</u> <u>L<sub>A1</sub> (1 min):</u> 45	Day – 1.5 hrs	No	Yes	NM Sources Only	2-Feb-18
	19-Dec-17	NA	<25	<30	30		Evening – 0.5 hrs	No	Yes	NM Sources Only	2-Feb-18
	20-Dec-17	NA	NA	NA	NA		Night – 1 hr	No	Yes	NM Sources Only	2-Feb-18
N6	18-Dec-17	NA	IA	NA	NA	<u>Day, Evening &amp; Night:</u> 35 <u>Night</u> <u>L<sub>A1</sub> (1 min):</u> 45	Day – 1.5 hrs	No	Yes	NM Sources Only	2-Feb-18
	19-Dec-17	NA	NA	NA	NA		Evening – 0.5 hrs	No	Yes	NM Sources Only	2-Feb-18
	20-Dec-17	NA	NA	NA	NA		Night – 1 hr	No	Yes	NM Sources Only	2-Feb-18
N8	Monitoring at N8 to commence when surface activities approach the eastern end of the southern longwall panels.										

Figure 1 – EPL 12789 Monitoring Locations

