



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 2023

Obtained Date: 30/01/2023

Publication Date: 14/02/2023

Table 1 – No Pollutant Limits Apply

EPL	Pollutant	Units of Measure	Sample Method	Monitoring Frequency	No. of Samples for the Month	Dates Sampled	Date Obtained	Min Value	Mean Value	Median Value	Max or Only Value
ND3	Deposited Matter	g/m ² /month	Lab Analysis	Once a month (min. 4 weeks)	1	11/01/2023	30/01/2023	NA	NA	NA	0.3
11	Conductivity	µs/cm	In situ	Upon discharge (within 12 hours)	<i>No discharge occurred during sampling period (SD4)</i>						
	TOC	mg/L	Lab Analysis								
13	Conductivity	µs/cm	In situ	Upon discharge (within 12 hours)	<i>No discharge occurred during sampling period (SD2)</i>						
	TOC	mg/L	Lab Analysis								
14	Conductivity	µs/cm	In situ	In the event of flow during the quarter & after each wet weather discharge from points 11, 13, 18,27	<i>No flow events and/or mine discharge occurred during sampling period (KC1US)</i>						
	TOC	mg/L	Lab Analysis								
	Oil & Grease	mg/L	Lab Analysis								
	pH	pH	In situ								
15	TSS	mg/L	Lab Analysis	In the event of flow during the quarter & after each wet weather discharge from points 11, 13, 18,27	<i>No flow events and/or mine discharge occurred during sampling period (KC1DS)</i>						
	Conductivity	µs/cm	In situ								
	TOC	mg/L	Lab Analysis								
	Oil & Grease	mg/L	Lab Analysis								
	pH	pH	In situ								

16	Conductivity	µs/cm	In situ	In the event of flow during the quarter & after each wet weather discharge from points 11, 13, 18,27	<i>No flow events and/or mine discharge occurred during sampling period (KC2US)</i>
	TOC	mg/L	Lab Analysis		
	Oil & Grease	mg/L	Lab Analysis		
	pH	pH	In situ		
	TSS	mg/L	Lab Analysis		
17	Conductivity	µs/cm	In situ	In the event of flow during the quarter & after each wet weather discharge from points 11, 13, 18,27	<i>No flow events and/or mine discharge occurred during sampling period (KC2DS)</i>
	TOC	mg/L	Lab Analysis		
	Oil & Grease	mg/L	Lab Analysis		
	pH	pH	In situ		
	TSS	mg/L	Lab Analysis		
18	Conductivity	µs/cm	In Situ	Upon discharge (within 12 hours)	<i>No discharge occurred during sampling period (SD7)</i>
	TOC	mg/L	Lab Analysis		
19	Conductivity	µs/cm	In situ	In the event of flow during the quarter & after each wet weather discharge from points 11, 13, 18,27	<i>No flow events and/or mine discharge occurred during sampling period (KCUS)</i>
	TOC	mg/L	Lab Analysis		
	Oil & Grease	mg/L	Lab Analysis		
	pH	pH	In situ		
	TSS	mg/L	Lab Analysis		
20	Conductivity	µs/cm	In situ	In the event of flow during the quarter & after each wet weather discharge	<i>No flow events and/or mine discharge occurred during sampling period (KCDS)</i>
	TOC	mg/L	Lab Analysis		
	Oil & Grease	mg/L	Lab Analysis		
	pH	pH	In situ		

	TSS	mg/L	Lab Analysis	from points 11, 13, 18,27		
21	Conductivity	µs/cm	In situ	In the event of flow during the quarter & after each wet weather discharge from points 11, 13, 18,27	<i>No flow events and/or mine discharge occurred during sampling period (PCa)</i>	
	TOC	mg/L	Lab Analysis			
	Oil & Grease	mg/L	Lab Analysis			
	pH	pH	In situ			
	TSS	mg/L	Lab Analysis			
22	Conductivity	µs/cm	In situ	In the event of flow during the quarter & after each wet weather discharge from points 11, 13, 18,27	<i>No flow events and/or mine discharge occurred during sampling period (PC1)</i>	
	TOC	mg/L	Lab Analysis			
	Oil & Grease	mg/L	Lab Analysis			
	pH	pH	In situ			
	TSS	mg/L	Lab Analysis			
24	pH	pH	In situ	Upon Discharge (within 4 hrs)	<i>Namoi discharge point – Not constructed or currently utilised (NR1).</i>	
	TDS	mg/L	Lab Analysis			
25	pH	pH	In situ	Upon Discharge (within 4 hrs)	<i>Namoi discharge point – Not constructed or currently utilised (NRUS).</i>	
	TDS	mg/L	Lab Analysis			
26	pH	pH	In situ	Upon Discharge (within 4 hrs)	<i>Namoi discharge point – Not constructed or currently utilised (NRDS).</i>	
	TDS	mg/L	Lab Analysis			
28	Conductivity	µs/cm	In situ	Quarterly	0	<i>Not scheduled for sampling during sampling period</i>
	pH	pH	In situ		0	
	SWL	mbtoc	In situ		0	
	Bicarbonate	mg/L	Lab Analysis		0	

	Calcium	mg/L	Lab Analysis		0	
	Carbonate	mg/L	Lab Analysis		0	
	Chloride	mg/L	Lab Analysis		0	
	Magnesium	mg/L	Lab Analysis		0	
	Potassium	mg/L	Lab Analysis		0	
	Sodium	mg/L	Lab Analysis		0	
	Sulfate	mg/L	Lab Analysis		0	
29	Conductivity	µs/cm	In situ	Quarterly	0	<i>Not scheduled for sampling during sampling period</i>
	pH	pH	In situ		0	
	SWL	mbtoc	In situ		0	
	Bicarbonate	mg/L	Lab Analysis		0	
	Calcium	mg/L	Lab Analysis		0	
	Carbonate	mg/L	Lab Analysis		0	
	Chloride	mg/L	Lab Analysis		0	
	Magnesium	mg/L	Lab Analysis		0	
	Potassium	mg/L	Lab Analysis		0	
	Sodium	mg/L	Lab Analysis		0	
	Sulfate	mg/L	Lab Analysis		0	

30	Conductivity	µs/cm	In situ	Quarterly	0	<i>Not scheduled for sampling during sampling period</i>
	pH	pH	In situ		0	
	SWL	mbtoc	In situ		0	
	Bicarbonate	mg/L	Lab Analysis		0	
	Calcium	mg/L	Lab Analysis		0	
	Carbonate	mg/L	Lab Analysis		0	
	Chloride	mg/L	Lab Analysis		0	
	Magnesium	mg/L	Lab Analysis		0	
	Potassium	mg/L	Lab Analysis		0	
	Sodium	mg/L	Lab Analysis		0	
	Sulfate	mg/L	Lab Analysis		0	
31	Conductivity	µs/cm	In situ	Quarterly	0	<i>Not scheduled for sampling during sampling period</i>
	pH	pH	In situ		0	
	SWL	mbtoc	In situ		0	
	Bicarbonate	mg/L	Lab Analysis		0	
	Calcium	mg/L	Lab Analysis		0	
	Carbonate	mg/L	Lab Analysis		0	
	Chloride	mg/L	Lab Analysis		0	
	Magnesium	mg/L	Lab Analysis		0	
	Potassium	mg/L	Lab Analysis		0	

	Sodium	mg/L	Lab Analysis		0	
	Sulfate	mg/L	Lab Analysis		0	
32	Conductivity	µs/cm	In situ	Quarterly	0	<i>Not scheduled for sampling during sampling period</i>
	pH	pH	In situ		0	
	SWL	mbtoc	In situ		0	
	Bicarbonate	mg/L	Lab Analysis		0	
	Calcium	mg/L	Lab Analysis		0	
	Carbonate	mg/L	Lab Analysis		0	
	Chloride	mg/L	Lab Analysis		0	
	Magnesium	mg/L	Lab Analysis		0	
	Potassium	mg/L	Lab Analysis		0	
	Sodium	mg/L	Lab Analysis		0	
	Sulfate	mg/L	Lab Analysis		0	
33	Conductivity	µs/cm	In situ	Quarterly	0	<i>Not scheduled for sampling during sampling period</i>
	pH	pH	In situ		0	
	SWL	mbtoc	In situ		0	
	Bicarbonate	mg/L	Lab Analysis		0	
	Calcium	mg/L	Lab Analysis		0	
	Carbonate	mg/L	Lab Analysis		0	
	Chloride	mg/L	Lab Analysis		0	

	Magnesium	mg/L	Lab Analysis		0	
	Potassium	mg/L	Lab Analysis		0	
	Sodium	mg/L	Lab Analysis		0	
	Sulfate	mg/L	Lab Analysis		0	
34	Conductivity	µs/cm	In situ	Quarterly	0	<i>Not scheduled for sampling during sampling period</i>
	pH	pH	In situ		0	
	SWL	mbtoc	In situ		0	
	Bicarbonate	mg/L	Lab Analysis		0	
	Calcium	mg/L	Lab Analysis		0	
	Carbonate	mg/L	Lab Analysis		0	
	Chloride	mg/L	Lab Analysis		0	
	Magnesium	mg/L	Lab Analysis		0	
	Potassium	mg/L	Lab Analysis		0	
	Sodium	mg/L	Lab Analysis		0	
	Sulfate	mg/L	Lab Analysis		0	
35	Conductivity	µs/cm	In situ	Quarterly	0	<i>Not scheduled for sampling during sampling period</i>
	pH	pH	In situ		0	
	SWL	mbtoc	In situ		0	
	Bicarbonate	mg/L	Lab Analysis		0	
	Calcium	mg/L	Lab Analysis		0	



	Carbonate	mg/L	Lab Analysis		0	
	Chloride	mg/L	Lab Analysis		0	
	Magnesium	mg/L	Lab Analysis		0	
	Potassium	mg/L	Lab Analysis		0	
	Sodium	mg/L	Lab Analysis		0	
	Sulfate	mg/L	Lab Analysis		0	

Table 2 - Pollutant Limits Apply (Water)

EPL ID	Pollutant	Units of Measure	Sample Method	Monitoring Frequency	No. of Samples for the Month	Date Sampled	Date Obtained	Min Value	Mean Value	Max Value	EPL Limit	Exceedance (Yes/No)	Comments (Mine Site Sample ID)
11	TSS	mg/L	Lab Analysis	Upon discharge	0	<i>No discharge occurred during sampling period</i>					50	No	SD4
	Oil & Grease	mg/L	Lab Analysis		0						10	No	
	pH	pH	In situ		0						6.5-8.5	No	
13	TSS	mg/L	Lab Analysis	Upon discharge	0	<i>No discharge occurred during sampling period</i>					50	No	SD2
	Oil & Grease	mg/L	Lab Analysis		0						10	No	
	pH	pH	In situ		0						6.5-8.5	No	
18	TSS	mg/L	Lab Analysis	Upon discharge	0	<i>No discharge occurred during sampling period</i>					50	No	SD7
	Oil & Grease	mg/L	Lab Analysis		0						10	No	
	pH	pH	In situ		0						6.5-8.5	No	
24	TDS	mg/L	Lab Analysis	Upon discharge	0	<i>Namoi discharge point – Not constructed or currently utilised.</i>					350	N/A	NR1
	pH	pH	In situ		0						6.5-8.5	N/A	
27	TSS	mg/L	Lab Analysis	Upon discharge	0	<i>No discharge occurred during reporting period</i>					50	N/A	SD8
	Oil & Grease	mg/L	Lab Analysis		0						10	N/A	
	pH	pH	In situ		0						6.5-8.5	N/A	

Table 3 – Quarterly Attended Noise Monitoring results summary table

Not scheduled for sampling during reporting period. Next scheduled sampling is for March 2023.

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 ² (D/E/N)			Compliant (Yes/No)	Date Obtained
N5 ¹						<u>Day, Evening & Night:</u> 35 <u>Night</u> <u>LA1 (1 min):</u> 45	Day – 1.5 hrs					
							Evening – 0.5 hrs					
								Night – 1 hr				
N6						<u>Day, Evening & Night:</u> 35 <u>Night</u> <u>LA1 (1 min):</u> 45	Day – 1.5 hrs					
							Evening – 0.5 hrs					
								Night – 1 hr				
N8 ¹						<u>Day, Evening & Night:</u> 35 <u>Night</u> <u>LA1 (1 min):</u> 45	Day – 1.5 hrs					
							Evening – 0.5 hrs					
								Night – 1 hr				
N9 ¹						<u>Day, Evening & Night:</u> 35 <u>Night</u> <u>LA1 (1 min):</u> 45	Day – 1.5 hrs					
							Evening – 0.5 hrs					
								Night – 1 hr				

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 2023

Obtained Date: 28/2/2023

Publication Date: 20/03/2023

Table 1 – No Pollutant Limits Apply

EPL	Pollutant	Units of Measure	Sample Method	Monitoring Frequency	No. of Samples for the Month	Dates Sampled	Date Obtained	Min Value	Mean Value	Median Value	Max or Only Value
ND3	Deposited Matter	g/m ² /month	Lab Analysis	Once a month (min. 4 weeks)	1	9/02/2023	28/02/2023	NA	NA	NA	0.2
11	Conductivity	µs/cm	In situ	Upon discharge (within 12 hours)	<i>No discharge occurred during sampling period (SD4)</i>						
	TOC	mg/L	Lab Analysis								
13	Conductivity	µs/cm	In situ	Upon discharge (within 12 hours)	<i>No discharge occurred during sampling period (SD2)</i>						
	TOC	mg/L	Lab Analysis								
14	Conductivity	µs/cm	In situ	In the event of flow during the quarter & after each wet weather discharge from points 11, 13, 18,27	<i>No flow events and/or mine discharge occurred during sampling period (KC1US)</i>						
	TOC	mg/L	Lab Analysis								
	Oil & Grease	mg/L	Lab Analysis								
	pH	pH	In situ								
15	TSS	mg/L	Lab Analysis	In the event of flow during the quarter & after each wet weather discharge from points 11, 13, 18,27	<i>No flow events and/or mine discharge occurred during sampling period (KC1DS)</i>						
	Conductivity	µs/cm	In situ								
	TOC	mg/L	Lab Analysis								
	Oil & Grease	mg/L	Lab Analysis								
	pH	pH	In situ								

16	Conductivity	µs/cm	In situ	In the event of flow during the quarter & after each wet weather discharge from points 11, 13, 18,27	<i>No flow events and/or mine discharge occurred during sampling period (KC2US)</i>
	TOC	mg/L	Lab Analysis		
	Oil & Grease	mg/L	Lab Analysis		
	pH	pH	In situ		
	TSS	mg/L	Lab Analysis		
17	Conductivity	µs/cm	In situ	In the event of flow during the quarter & after each wet weather discharge from points 11, 13, 18,27	<i>No flow events and/or mine discharge occurred during sampling period (KC2DS)</i>
	TOC	mg/L	Lab Analysis		
	Oil & Grease	mg/L	Lab Analysis		
	pH	pH	In situ		
	TSS	mg/L	Lab Analysis		
18	Conductivity	µs/cm	In Situ	Upon discharge (within 12 hours)	<i>No discharge occurred during sampling period (SD7)</i>
	TOC	mg/L	Lab Analysis		
19	Conductivity	µs/cm	In situ	In the event of flow during the quarter & after each wet weather discharge from points 11, 13, 18,27	<i>No flow events and/or mine discharge occurred during sampling period (KCUS)</i>
	TOC	mg/L	Lab Analysis		
	Oil & Grease	mg/L	Lab Analysis		
	pH	pH	In situ		
	TSS	mg/L	Lab Analysis		
20	Conductivity	µs/cm	In situ	In the event of flow during the quarter & after each wet weather discharge	<i>No flow events and/or mine discharge occurred during sampling period (KCDS)</i>
	TOC	mg/L	Lab Analysis		
	Oil & Grease	mg/L	Lab Analysis		
	pH	pH	In situ		

	TSS	mg/L	Lab Analysis	from points 11, 13, 18,27		
21	Conductivity	µs/cm	In situ	In the event of flow during the quarter & after each wet weather discharge from points 11, 13, 18,27	<i>No flow events and/or mine discharge occurred during sampling period (PCa)</i>	
	TOC	mg/L	Lab Analysis			
	Oil & Grease	mg/L	Lab Analysis			
	pH	pH	In situ			
	TSS	mg/L	Lab Analysis			
22	Conductivity	µs/cm	In situ	In the event of flow during the quarter & after each wet weather discharge from points 11, 13, 18,27	<i>No flow events and/or mine discharge occurred during sampling period (PC1)</i>	
	TOC	mg/L	Lab Analysis			
	Oil & Grease	mg/L	Lab Analysis			
	pH	pH	In situ			
	TSS	mg/L	Lab Analysis			
24	pH	pH	In situ	Upon Discharge (within 4 hrs)	<i>Namoi discharge point – Not constructed or currently utilised (NR1).</i>	
	TDS	mg/L	Lab Analysis			
25	pH	pH	In situ	Upon Discharge (within 4 hrs)	<i>Namoi discharge point – Not constructed or currently utilised (NRUS).</i>	
	TDS	mg/L	Lab Analysis			
26	pH	pH	In situ	Upon Discharge (within 4 hrs)	<i>Namoi discharge point – Not constructed or currently utilised (NRDS).</i>	
	TDS	mg/L	Lab Analysis			
28	Conductivity	µs/cm	In situ	Quarterly	0	<i>Not scheduled for sampling during sampling period</i>
	pH	pH	In situ		0	
	SWL	mbtoc	In situ		0	
	Bicarbonate	mg/L	Lab Analysis		0	

	Calcium	mg/L	Lab Analysis		0	
	Carbonate	mg/L	Lab Analysis		0	
	Chloride	mg/L	Lab Analysis		0	
	Magnesium	mg/L	Lab Analysis		0	
	Potassium	mg/L	Lab Analysis		0	
	Sodium	mg/L	Lab Analysis		0	
	Sulfate	mg/L	Lab Analysis		0	
29	Conductivity	µs/cm	In situ	Quarterly	0	<i>Not scheduled for sampling during sampling period</i>
	pH	pH	In situ		0	
	SWL	mbtoc	In situ		0	
	Bicarbonate	mg/L	Lab Analysis		0	
	Calcium	mg/L	Lab Analysis		0	
	Carbonate	mg/L	Lab Analysis		0	
	Chloride	mg/L	Lab Analysis		0	
	Magnesium	mg/L	Lab Analysis		0	
	Potassium	mg/L	Lab Analysis		0	
	Sodium	mg/L	Lab Analysis		0	
	Sulfate	mg/L	Lab Analysis		0	

30	Conductivity	µs/cm	In situ	Quarterly	0	<i>Not scheduled for sampling during sampling period</i>
	pH	pH	In situ		0	
	SWL	mbtoc	In situ		0	
	Bicarbonate	mg/L	Lab Analysis		0	
	Calcium	mg/L	Lab Analysis		0	
	Carbonate	mg/L	Lab Analysis		0	
	Chloride	mg/L	Lab Analysis		0	
	Magnesium	mg/L	Lab Analysis		0	
	Potassium	mg/L	Lab Analysis		0	
	Sodium	mg/L	Lab Analysis		0	
	Sulfate	mg/L	Lab Analysis		0	
31	Conductivity	µs/cm	In situ	Quarterly	0	<i>Not scheduled for sampling during sampling period</i>
	pH	pH	In situ		0	
	SWL	mbtoc	In situ		0	
	Bicarbonate	mg/L	Lab Analysis		0	
	Calcium	mg/L	Lab Analysis		0	
	Carbonate	mg/L	Lab Analysis		0	
	Chloride	mg/L	Lab Analysis		0	
	Magnesium	mg/L	Lab Analysis		0	
	Potassium	mg/L	Lab Analysis		0	

	Sodium	mg/L	Lab Analysis		0	
	Sulfate	mg/L	Lab Analysis		0	
32	Conductivity	µs/cm	In situ	Quarterly	0	<i>Not scheduled for sampling during sampling period</i>
	pH	pH	In situ		0	
	SWL	mbtoc	In situ		0	
	Bicarbonate	mg/L	Lab Analysis		0	
	Calcium	mg/L	Lab Analysis		0	
	Carbonate	mg/L	Lab Analysis		0	
	Chloride	mg/L	Lab Analysis		0	
	Magnesium	mg/L	Lab Analysis		0	
	Potassium	mg/L	Lab Analysis		0	
	Sodium	mg/L	Lab Analysis		0	
	Sulfate	mg/L	Lab Analysis		0	
33	Conductivity	µs/cm	In situ	Quarterly	0	<i>Not scheduled for sampling during sampling period</i>
	pH	pH	In situ		0	
	SWL	mbtoc	In situ		0	
	Bicarbonate	mg/L	Lab Analysis		0	
	Calcium	mg/L	Lab Analysis		0	
	Carbonate	mg/L	Lab Analysis		0	
	Chloride	mg/L	Lab Analysis		0	

	Magnesium	mg/L	Lab Analysis		0	
	Potassium	mg/L	Lab Analysis		0	
	Sodium	mg/L	Lab Analysis		0	
	Sulfate	mg/L	Lab Analysis		0	
34	Conductivity	µs/cm	In situ	Quarterly	0	<i>Not scheduled for sampling during sampling period</i>
	pH	pH	In situ		0	
	SWL	mbtoc	In situ		0	
	Bicarbonate	mg/L	Lab Analysis		0	
	Calcium	mg/L	Lab Analysis		0	
	Carbonate	mg/L	Lab Analysis		0	
	Chloride	mg/L	Lab Analysis		0	
	Magnesium	mg/L	Lab Analysis		0	
	Potassium	mg/L	Lab Analysis		0	
	Sodium	mg/L	Lab Analysis		0	
	Sulfate	mg/L	Lab Analysis		0	
35	Conductivity	µs/cm	In situ	Quarterly	0	<i>Not scheduled for sampling during sampling period</i>
	pH	pH	In situ		0	
	SWL	mbtoc	In situ		0	
	Bicarbonate	mg/L	Lab Analysis		0	
	Calcium	mg/L	Lab Analysis		0	



	Carbonate	mg/L	Lab Analysis		0	
	Chloride	mg/L	Lab Analysis		0	
	Magnesium	mg/L	Lab Analysis		0	
	Potassium	mg/L	Lab Analysis		0	
	Sodium	mg/L	Lab Analysis		0	
	Sulfate	mg/L	Lab Analysis		0	

Table 2 - Pollutant Limits Apply (Water)

EPL ID	Pollutant	Units of Measure	Sample Method	Monitoring Frequency	No. of Samples for the Month	Date Sampled	Date Obtained	Min Value	Mean Value	Max Value	EPL Limit	Exceedance (Yes/No)	Comments (Mine Site Sample ID)
11	TSS	mg/L	Lab Analysis	Upon discharge	0	<i>No discharge occurred during sampling period</i>					50	No	SD4
	Oil & Grease	mg/L	Lab Analysis		0						10	No	
	pH	pH	In situ		0						6.5-8.5	No	
13	TSS	mg/L	Lab Analysis	Upon discharge	0	<i>No discharge occurred during sampling period</i>					50	No	SD2
	Oil & Grease	mg/L	Lab Analysis		0						10	No	
	pH	pH	In situ		0						6.5-8.5	No	
18	TSS	mg/L	Lab Analysis	Upon discharge	0	<i>No discharge occurred during sampling period</i>					50	No	SD7
	Oil & Grease	mg/L	Lab Analysis		0						10	No	
	pH	pH	In situ		0						6.5-8.5	No	
24	TDS	mg/L	Lab Analysis	Upon discharge	0	<i>Namoi discharge point – Not constructed or currently utilised.</i>					350	N/A	NR1
	pH	pH	In situ		0						6.5-8.5	N/A	
27	TSS	mg/L	Lab Analysis	Upon discharge	0	<i>No discharge occurred during reporting period</i>					50	N/A	SD8
	Oil & Grease	mg/L	Lab Analysis		0						10	N/A	
	pH	pH	In situ		0						6.5-8.5	N/A	



Table 3 – Quarterly Attended Noise Monitoring results summary table

Not scheduled for sampling during reporting period. Next scheduled sampling is for March 2023.

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 ² (D/E/N)			Compliant (Yes/No)	Date Obtained
N5 ¹						<u>Day, Evening & Night:</u> 35 <u>Night</u> <u>LA1 (1 min):</u> 45	Day – 1.5 hrs					
							Evening – 0.5 hrs					
								Night – 1 hr				
N6						<u>Day, Evening & Night:</u> 35 <u>Night</u> <u>LA1 (1 min):</u> 45	Day – 1.5 hrs					
							Evening – 0.5 hrs					
								Night – 1 hr				
N8 ¹						<u>Day, Evening & Night:</u> 35 <u>Night</u> <u>LA1 (1 min):</u> 45	Day – 1.5 hrs					
							Evening – 0.5 hrs					
								Night – 1 hr				
N9 ¹						<u>Day, Evening & Night:</u> 35 <u>Night</u> <u>LA1 (1 min):</u> 45	Day – 1.5 hrs					
							Evening – 0.5 hrs					
								Night – 1 hr				

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 2023

Obtained Date: 04/04/2023 *Noise Monitoring results not received for March at time of publication

Publication Date: 24/04/2023

Table 1 – No Pollutant Limits Apply

EPL	Pollutant	Units of Measure	Sample Method	Monitoring Frequency	No. of Samples for the Month	Dates Sampled	Date Obtained	Min Value	Mean Value	Median Value	Max or Only Value
ND3	Deposited Matter	g/m ² /month	Lab Analysis	Once a month (min. 4 weeks)	1	08/03/2023	27/03/2023	NA	NA	NA	0.3
11	Conductivity	µs/cm	In situ	Upon discharge (within 12 hours)	<i>No discharge occurred during sampling period (SD4)</i>						
	TOC	mg/L	Lab Analysis								
13	Conductivity	µs/cm	In situ	Upon discharge (within 12 hours)	<i>No discharge occurred during sampling period (SD2)</i>						
	TOC	mg/L	Lab Analysis								
14	Conductivity	µs/cm	In situ	In the event of flow during the quarter & after each wet weather discharge from points 11, 13, 18,27	0	Ambient Flow 14/3/23 (check completed, no flow)	NA	NA	NA	NA	
	TOC	mg/L	Lab Analysis		0		NA	NA	NA	NA	
	Oil & Grease	mg/L	Lab Analysis		0		Controlled discharge: 30/3/2023 (check completed, no flow)	NA	NA	NA	NA
	pH	pH	In situ		0			NA	NA	NA	NA
	TSS	mg/L	Lab Analysis		0			NA	NA	NA	NA
15	Conductivity	µs/cm	In situ	In the event of flow during the quarter & after each wet weather discharge from points 11, 13, 18,27	0	Ambient Flow 14/3/23 (check completed, no flow)	NA	NA	NA	NA	
	TOC	mg/L	Lab Analysis		0		NA	NA	NA	NA	
	Oil & Grease	mg/L	Lab Analysis		0		Controlled discharge: 30/3/2023 (check completed, no flow)	NA	NA	NA	NA
	pH	pH	In situ		0			NA	NA	NA	NA
	TSS	mg/L	Lab Analysis		0			NA	NA	NA	NA

16	Conductivity	µs/cm	In situ	In the event of flow during the quarter & after each wet weather discharge from points 11, 13, 18,27	0	Ambient Flow 14/3/23 (check completed, no flow)		NA	NA	NA	NA	
	TOC	mg/L	Lab Analysis		0			NA	NA	NA	NA	
	Oil & Grease	mg/L	Lab Analysis		0			Controlled discharge: 30/3/2023 (check completed, no flow)	NA	NA	NA	NA
	pH	pH	In situ		0				NA	NA	NA	NA
	TSS	mg/L	Lab Analysis		0				NA	NA	NA	NA
17	Conductivity	µs/cm	In situ	In the event of flow during the quarter & after each wet weather discharge from points 11, 13, 18,27	0	Ambient Flow 14/3/23 (check completed, no flow)		NA	NA	NA	NA	
	TOC	mg/L	Lab Analysis		0			NA	NA	NA	NA	
	Oil & Grease	mg/L	Lab Analysis		0			Controlled discharge: 30/3/2023 (check completed, no flow)	NA	NA	NA	NA
	pH	pH	In situ		0				NA	NA	NA	NA
	TSS	mg/L	Lab Analysis		0				NA	NA	NA	NA
18	Conductivity	µs/cm	In Situ	Upon discharge (within 12 hours)	1	30/3/2023	4/4/2023	NA	NA	NA	349	
	TOC	mg/L	Lab Analysis		1	30/3/2023	4/4/2023	NA	NA	NA	42	
19	Conductivity	µs/cm	In situ	In the event of flow during the quarter & after each wet weather discharge from points 11, 13, 18,27	1	Ambient Flow 14/3/23 (check completed, no flow)	4/4/2023	NA	NA	NA	110	
	TOC	mg/L	Lab Analysis		1			NA	NA	NA	16	
	Oil & Grease	mg/L	Lab Analysis		1			NA	NA	NA	<5	
	pH	pH	In situ		1			Controlled discharge: 30/3/2023	NA	NA	NA	7.45
	TSS	mg/L	Lab Analysis		1				NA	NA	NA	72
20	Conductivity	µs/cm	In situ	In the event of flow during the quarter & after each wet weather discharge	0	Ambient Flow 14/3/23 (check completed, no flow)		NA	NA	NA	NA	
	TOC	mg/L	Lab Analysis		0			NA	NA	NA	NA	
	Oil & Grease	mg/L	Lab Analysis		0			Controlled discharge: 30/3/2023 (check completed, no flow)	NA	NA	NA	NA
	pH	pH	In situ		0				NA	NA	NA	NA

	TSS	mg/L	Lab Analysis	from points 11, 13, 18,27	0		NA	NA	NA	NA
21	Conductivity	µs/cm	In situ	In the event of flow during the quarter & after each wet weather discharge from points 11, 13, 18,27	0	Ambient Flow 14/3/23 (check completed, no flow) Controlled discharge: 30/3/2023 (check completed, no flow)	NA	NA	NA	NA
	TOC	mg/L	Lab Analysis		0		NA	NA	NA	NA
	Oil & Grease	mg/L	Lab Analysis		0		NA	NA	NA	NA
	pH	pH	In situ		0		NA	NA	NA	NA
	TSS	mg/L	Lab Analysis		0		NA	NA	NA	NA
22	Conductivity	µs/cm	In situ	In the event of flow during the quarter & after each wet weather discharge from points 11, 13, 18,27	0	Ambient Flow 14/3/23 (check completed, no flow) Controlled discharge: 30/3/2023 (check completed, no flow)	NA	NA	NA	NA
	TOC	mg/L	Lab Analysis		0		NA	NA	NA	NA
	Oil & Grease	mg/L	Lab Analysis		0		NA	NA	NA	NA
	pH	pH	In situ		0		NA	NA	NA	NA
	TSS	mg/L	Lab Analysis		0		NA	NA	NA	NA
24	pH	pH	In situ	Upon Discharge (within 4 hrs)	<i>Namoi discharge point – Not constructed or currently utilised (NR1).</i>					
	TDS	mg/L	Lab Analysis							
25	pH	pH	In situ	Upon Discharge (within 4 hrs)	<i>Namoi discharge point – Not constructed or currently utilised (NRUS).</i>					
	TDS	mg/L	Lab Analysis							
26	pH	pH	In situ	Upon Discharge (within 4 hrs)	<i>Namoi discharge point – Not constructed or currently utilised (NRDS).</i>					
	TDS	mg/L	Lab Analysis							
28	Conductivity	µs/cm	In situ	Quarterly	0	<i>Bore was dry during sampling period</i>				
	pH	pH	In situ		0					
	SWL	mbtoc	In situ		0					
	Bicarbonate	mg/L	Lab Analysis		0					

	Calcium	mg/L	Lab Analysis		0						
	Carbonate	mg/L	Lab Analysis		0						
	Chloride	mg/L	Lab Analysis		0						
	Magnesium	mg/L	Lab Analysis		0						
	Potassium	mg/L	Lab Analysis		0						
	Sodium	mg/L	Lab Analysis		0						
	Sulfate	mg/L	Lab Analysis		0						
29	Conductivity	µs/cm	In situ	Quarterly	1	15/03/2023	27/03/2023	NA	NA	NA	15640
	pH	pH	In situ		1	15/03/2023	27/03/2023	NA	NA	NA	7.81
	SWL	mbtoc	In situ		1	15/03/2023	27/03/2023	NA	NA	NA	4.63
	Bicarbonate	mg/L	Lab Analysis		1	15/03/2023	27/03/2023	NA	NA	NA	618
	Calcium	mg/L	Lab Analysis		1	15/03/2023	27/03/2023	NA	NA	NA	102
	Carbonate	mg/L	Lab Analysis		1	15/03/2023	27/03/2023	NA	NA	NA	<1
	Chloride	mg/L	Lab Analysis		1	15/03/2023	27/03/2023	NA	NA	NA	5230
	Magnesium	mg/L	Lab Analysis		1	15/03/2023	27/03/2023	NA	NA	NA	246
	Potassium	mg/L	Lab Analysis		1	15/03/2023	27/03/2023	NA	NA	NA	8
	Sodium	mg/L	Lab Analysis		1	15/03/2023	27/03/2023	NA	NA	NA	3090
	Sulfate	mg/L	Lab Analysis		1	15/03/2023	27/03/2023	NA	NA	NA	624

30	Conductivity	µs/cm	In situ	Quarterly	1	15/03/2023	27/03/2023	NA	NA	NA	17350
	pH	pH	In situ		1	15/03/2023	27/03/2023	NA	NA	NA	6.89
	SWL	mbtoc	In situ		1	15/03/2023	27/03/2023	NA	NA	NA	12.68
	Bicarbonate	mg/L	Lab Analysis		1	15/03/2023	27/03/2023	NA	NA	NA	820
	Calcium	mg/L	Lab Analysis		1	15/03/2023	27/03/2023	NA	NA	NA	144
	Carbonate	mg/L	Lab Analysis		1	15/03/2023	27/03/2023	NA	NA	NA	<1
	Chloride	mg/L	Lab Analysis		1	15/03/2023	27/03/2023	NA	NA	NA	5610
	Magnesium	mg/L	Lab Analysis		1	15/03/2023	27/03/2023	NA	NA	NA	369
	Potassium	mg/L	Lab Analysis		1	15/03/2023	27/03/2023	NA	NA	NA	18
	Sodium	mg/L	Lab Analysis		1	15/03/2023	27/03/2023	NA	NA	NA	3370
	Sulfate	mg/L	Lab Analysis		1	15/03/2023	27/03/2023	NA	NA	NA	1160
31	Conductivity	µs/cm	In situ	Quarterly	1	15/03/2023	27/03/2023	NA	NA	NA	7120
	pH	pH	In situ		1	15/03/2023	27/03/2023	NA	NA	NA	7.26
	SWL	mbtoc	In situ		1	15/03/2023	27/03/2023	NA	NA	NA	16.61
	Bicarbonate	mg/L	Lab Analysis		1	15/03/2023	27/03/2023	NA	NA	NA	825
	Calcium	mg/L	Lab Analysis		1	15/03/2023	27/03/2023	NA	NA	NA	89
	Carbonate	mg/L	Lab Analysis		1	15/03/2023	27/03/2023	NA	NA	NA	<1
	Chloride	mg/L	Lab Analysis		1	15/03/2023	27/03/2023	NA	NA	NA	1710
	Magnesium	mg/L	Lab Analysis		1	15/03/2023	27/03/2023	NA	NA	NA	162
	Potassium	mg/L	Lab Analysis		1	15/03/2023	27/03/2023	NA	NA	NA	13

	Sodium	mg/L	Lab Analysis		1	15/03/2023	27/03/2023	NA	NA	NA	1240
	Sulfate	mg/L	Lab Analysis		1	15/03/2023	27/03/2023	NA	NA	NA	344
32	Conductivity	µs/cm	In situ	Quarterly	1	15/03/2023	27/03/2023	NA	NA	NA	1902
	pH	pH	In situ		1	15/03/2023	27/03/2023	NA	NA	NA	8.3
	SWL	mbtoc	In situ		1	15/03/2023	27/03/2023	NA	NA	NA	7.54
	Bicarbonate	mg/L	Lab Analysis		1	15/03/2023	27/03/2023	NA	NA	NA	835
	Calcium	mg/L	Lab Analysis		1	15/03/2023	27/03/2023	NA	NA	NA	<1
	Carbonate	mg/L	Lab Analysis		1	15/03/2023	27/03/2023	NA	NA	NA	31
	Chloride	mg/L	Lab Analysis		1	15/03/2023	27/03/2023	NA	NA	NA	73
	Magnesium	mg/L	Lab Analysis		1	15/03/2023	27/03/2023	NA	NA	NA	3
	Potassium	mg/L	Lab Analysis		1	15/03/2023	27/03/2023	NA	NA	NA	<1
	Sodium	mg/L	Lab Analysis		1	15/03/2023	27/03/2023	NA	NA	NA	487
Sulfate	mg/L	Lab Analysis	1	15/03/2023	27/03/2023	NA	NA	NA	57		
33	Conductivity	µs/cm	In situ	Quarterly	0	<i>Bore was dry during sampling period</i>					
	pH	pH	In situ		0						
	SWL	mbtoc	In situ		0						
	Bicarbonate	mg/L	Lab Analysis		0						
	Calcium	mg/L	Lab Analysis		0						
	Carbonate	mg/L	Lab Analysis		0						
	Chloride	mg/L	Lab Analysis		0						

	Magnesium	mg/L	Lab Analysis		0						
	Potassium	mg/L	Lab Analysis		0						
	Sodium	mg/L	Lab Analysis		0						
	Sulfate	mg/L	Lab Analysis		0						
34	Conductivity	µs/cm	In situ	Quarterly	0	<i>Bore was dry during sampling period</i>					
	pH	pH	In situ		0						
	SWL	mbtoc	In situ		0						
	Bicarbonate	mg/L	Lab Analysis		0						
	Calcium	mg/L	Lab Analysis		0						
	Carbonate	mg/L	Lab Analysis		0						
	Chloride	mg/L	Lab Analysis		0						
	Magnesium	mg/L	Lab Analysis		0						
	Potassium	mg/L	Lab Analysis		0						
	Sodium	mg/L	Lab Analysis		0						
	Sulfate	mg/L	Lab Analysis		0						
35	Conductivity	µs/cm	In situ	Quarterly	1	14/03/2023	27/03/2023	NA	NA	NA	11360
	pH	pH	In situ		1	14/03/2023	27/03/2023	NA	NA	NA	7.11
	SWL	mbtoc	In situ		1	14/03/2023	27/03/2023	NA	NA	NA	18.17
	Bicarbonate	mg/L	Lab Analysis		1	14/03/2023	27/03/2023	NA	NA	NA	4670
	Calcium	mg/L	Lab Analysis		1	14/03/2023	27/03/2023	NA	NA	NA	38

	Carbonate	mg/L	Lab Analysis		1	14/03/2023	27/03/2023	NA	NA	NA	<1
	Chloride	mg/L	Lab Analysis		1	14/03/2023	27/03/2023	NA	NA	NA	1570
	Magnesium	mg/L	Lab Analysis		1	14/03/2023	27/03/2023	NA	NA	NA	71
	Potassium	mg/L	Lab Analysis		1	14/03/2023	27/03/2023	NA	NA	NA	78
	Sodium	mg/L	Lab Analysis		1	14/03/2023	27/03/2023	NA	NA	NA	3160
	Sulfate	mg/L	Lab Analysis		1	14/03/2023	27/03/2023	NA	NA	NA	124

Table 2 - Pollutant Limits Apply (Water)

EPL ID	Pollutant	Units of Measure	Sample Method	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 (Mine Site Sample ID)
11	TSS	mg/L	Lab Analysis	Upon discharge	0	<i>No discharge occurred during sampling period</i>					50	No	SD4
	Oil & Grease	mg/L	Lab Analysis		0						10	No	
	pH	pH	In situ		0						6.5-8.5	No	
13	TSS	mg/L	Lab Analysis	Upon discharge	0	<i>No discharge occurred during sampling period</i>					50	No	SD2
	Oil & Grease	mg/L	Lab Analysis		0						10	No	
	pH	pH	In situ		0						6.5-8.5	No	
18	TSS	mg/L	Lab Analysis	Upon discharge	1	30/03/2023	4/04/2023	NA	NA	3350	50	No ¹	SD7
	Oil & Grease	mg/L	Lab Analysis		1			NA	NA	<5	10	No	
	pH	pH	In situ		1			NA	NA	8.25	6.5-8.5	No	
24	TDS	mg/L	Lab Analysis	Upon discharge	0	<i>Namoi discharge point – Not constructed or currently utilised.</i>					350	N/A	NR1
	pH	pH	In situ		0						6.5-8.5	N/A	
27	TSS	mg/L	Lab Analysis	Upon discharge	0	<i>No discharge occurred during reporting period</i>					50	N/A	SD8
	Oil & Grease	mg/L	Lab Analysis		0						10	N/A	
	pH	pH	In situ		0						6.5-8.5	N/A	

Note 1: Total Suspended Solids (TSS) concentration limit did not apply as per EPL12789 Condition L2.5(a) as the controlled discharge occurred solely as a result of rainfall exceeding 38.4mm over a consecutive 5-day period (triggered 29/03/2023)

Table 3 – Quarterly Attended Noise Monitoring results summary table

EPL ID	Date	Measured Levels – dB(A)	Limit(s)	Measurement Periods	Weather Compliant Conditions ² (D/E/N)			Compliant (Yes/No)	Date Obtained			
		Leq 15min Day	Leq 15min Evening	Leq 15min Night	LA1 (1 min) Night							
N5 ¹						<u>Day, Evening & Night:</u> 35 <u>Night</u> <u>LA1 (1 min):</u> 45	Day – 1.5 hrs					
							Evening – 0.5 hrs					
								Night – 1 hr				
N6						<u>Day, Evening & Night:</u> 35 <u>Night</u> <u>LA1 (1 min):</u> 45	Day – 1.5 hrs					
							Evening – 0.5 hrs					
								Night – 1 hr				
N8 ¹						<u>Day, Evening & Night:</u> 35 <u>Night</u> <u>LA1 (1 min):</u> 45	Day – 1.5 hrs					
							Evening – 0.5 hrs					
								Night – 1 hr				
N9 ¹						<u>Day, Evening & Night:</u> 35 <u>Night</u> <u>LA1 (1 min):</u> 45	Day – 1.5 hrs					
							Evening – 0.5 hrs					
								Night – 1 hr				

Note: Noise Monitoring completed March 27 – 30, however results have not been received. Results will be published when available.

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: April 2023

Obtained Date: 28/4/2023

Publication Date: 9/5/2023

Table 1 – No Pollutant Limits Apply

EPL	Pollutant	Units of Measure	Sample Method	Monitoring Frequency	No. of Samples for the Month	Dates Sampled	Date Obtained	Min Value	Mean Value	Median Value	Max or Only Value
ND3	Deposited Matter	g/m ² /month	Lab Analysis	Once a month (min. 4 weeks)	1	11/04/2023	28/04/2023	NA	NA	NA	0.7
11	Conductivity	µs/cm	In situ	Upon discharge (within 12 hours)	<i>No discharge occurred during sampling period (SD4)</i>						
	TOC	mg/L	Lab Analysis								
13	Conductivity	µs/cm	In situ	Upon discharge (within 12 hours)	<i>No discharge occurred during sampling period (SD2)</i>						
	TOC	mg/L	Lab Analysis								
14	Conductivity	µs/cm	In situ	In the event of flow during the quarter & after each wet weather discharge from points 11, 13, 18,27	<i>No flow events and/or mine discharge occurred during sampling period (KC1US)</i>						
	TOC	mg/L	Lab Analysis								
	Oil & Grease	mg/L	Lab Analysis								
	pH	pH	In situ								
15	TSS	mg/L	Lab Analysis	In the event of flow during the quarter & after each wet weather discharge from points 11, 13, 18,27	<i>No flow events and/or mine discharge occurred during sampling period (KC1DS)</i>						
	Conductivity	µs/cm	In situ								
	TOC	mg/L	Lab Analysis								
	Oil & Grease	mg/L	Lab Analysis								
	pH	pH	In situ								

16	Conductivity	µs/cm	In situ	In the event of flow during the quarter & after each wet weather discharge from points 11, 13, 18,27	<i>No flow events and/or mine discharge occurred during sampling period (KC2US)</i>
	TOC	mg/L	Lab Analysis		
	Oil & Grease	mg/L	Lab Analysis		
	pH	pH	In situ		
	TSS	mg/L	Lab Analysis		
17	Conductivity	µs/cm	In situ	In the event of flow during the quarter & after each wet weather discharge from points 11, 13, 18,27	<i>No flow events and/or mine discharge occurred during sampling period (KC2DS)</i>
	TOC	mg/L	Lab Analysis		
	Oil & Grease	mg/L	Lab Analysis		
	pH	pH	In situ		
	TSS	mg/L	Lab Analysis		
18	Conductivity	µs/cm	In Situ	Upon discharge (within 12 hours)	<i>No discharge occurred during sampling period (SD7)</i>
	TOC	mg/L	Lab Analysis		
19	Conductivity	µs/cm	In situ	In the event of flow during the quarter & after each wet weather discharge from points 11, 13, 18,27	<i>No flow events and/or mine discharge occurred during sampling period (KCUS)</i>
	TOC	mg/L	Lab Analysis		
	Oil & Grease	mg/L	Lab Analysis		
	pH	pH	In situ		
	TSS	mg/L	Lab Analysis		
20	Conductivity	µs/cm	In situ	In the event of flow during the quarter & after each wet weather discharge	<i>No flow events and/or mine discharge occurred during sampling period (KCDS)</i>
	TOC	mg/L	Lab Analysis		
	Oil & Grease	mg/L	Lab Analysis		
	pH	pH	In situ		

	TSS	mg/L	Lab Analysis	from points 11, 13, 18,27		
21	Conductivity	µs/cm	In situ	In the event of flow during the quarter & after each wet weather discharge from points 11, 13, 18,27	<i>No flow events and/or mine discharge occurred during sampling period (PCa)</i>	
	TOC	mg/L	Lab Analysis			
	Oil & Grease	mg/L	Lab Analysis			
	pH	pH	In situ			
	TSS	mg/L	Lab Analysis			
22	Conductivity	µs/cm	In situ	In the event of flow during the quarter & after each wet weather discharge from points 11, 13, 18,27	<i>No flow events and/or mine discharge occurred during sampling period (PC1)</i>	
	TOC	mg/L	Lab Analysis			
	Oil & Grease	mg/L	Lab Analysis			
	pH	pH	In situ			
	TSS	mg/L	Lab Analysis			
24	pH	pH	In situ	Upon Discharge (within 4 hrs)	<i>Namoi discharge point – Not constructed or currently utilised (NR1).</i>	
	TDS	mg/L	Lab Analysis			
25	pH	pH	In situ	Upon Discharge (within 4 hrs)	<i>Namoi discharge point – Not constructed or currently utilised (NRUS).</i>	
	TDS	mg/L	Lab Analysis			
26	pH	pH	In situ	Upon Discharge (within 4 hrs)	<i>Namoi discharge point – Not constructed or currently utilised (NRDS).</i>	
	TDS	mg/L	Lab Analysis			
28	Conductivity	µs/cm	In situ	Quarterly	0	<i>Not scheduled for sampling during sampling period</i>
	pH	pH	In situ		0	
	SWL	mbtoc	In situ		0	
	Bicarbonate	mg/L	Lab Analysis		0	

	Calcium	mg/L	Lab Analysis		0	
	Carbonate	mg/L	Lab Analysis		0	
	Chloride	mg/L	Lab Analysis		0	
	Magnesium	mg/L	Lab Analysis		0	
	Potassium	mg/L	Lab Analysis		0	
	Sodium	mg/L	Lab Analysis		0	
	Sulfate	mg/L	Lab Analysis		0	
29	Conductivity	µs/cm	In situ	Quarterly	0	<i>Not scheduled for sampling during sampling period</i>
	pH	pH	In situ		0	
	SWL	mbtoc	In situ		0	
	Bicarbonate	mg/L	Lab Analysis		0	
	Calcium	mg/L	Lab Analysis		0	
	Carbonate	mg/L	Lab Analysis		0	
	Chloride	mg/L	Lab Analysis		0	
	Magnesium	mg/L	Lab Analysis		0	
	Potassium	mg/L	Lab Analysis		0	
	Sodium	mg/L	Lab Analysis		0	
	Sulfate	mg/L	Lab Analysis		0	

30	Conductivity	µs/cm	In situ	Quarterly	0	<i>Not scheduled for sampling during sampling period</i>
	pH	pH	In situ		0	
	SWL	mbtoc	In situ		0	
	Bicarbonate	mg/L	Lab Analysis		0	
	Calcium	mg/L	Lab Analysis		0	
	Carbonate	mg/L	Lab Analysis		0	
	Chloride	mg/L	Lab Analysis		0	
	Magnesium	mg/L	Lab Analysis		0	
	Potassium	mg/L	Lab Analysis		0	
	Sodium	mg/L	Lab Analysis		0	
	Sulfate	mg/L	Lab Analysis		0	
31	Conductivity	µs/cm	In situ	Quarterly	0	<i>Not scheduled for sampling during sampling period</i>
	pH	pH	In situ		0	
	SWL	mbtoc	In situ		0	
	Bicarbonate	mg/L	Lab Analysis		0	
	Calcium	mg/L	Lab Analysis		0	
	Carbonate	mg/L	Lab Analysis		0	
	Chloride	mg/L	Lab Analysis		0	
	Magnesium	mg/L	Lab Analysis		0	
	Potassium	mg/L	Lab Analysis		0	

	Sodium	mg/L	Lab Analysis		0	
	Sulfate	mg/L	Lab Analysis		0	
32	Conductivity	µs/cm	In situ	Quarterly	0	<i>Not scheduled for sampling during sampling period</i>
	pH	pH	In situ		0	
	SWL	mbtoc	In situ		0	
	Bicarbonate	mg/L	Lab Analysis		0	
	Calcium	mg/L	Lab Analysis		0	
	Carbonate	mg/L	Lab Analysis		0	
	Chloride	mg/L	Lab Analysis		0	
	Magnesium	mg/L	Lab Analysis		0	
	Potassium	mg/L	Lab Analysis		0	
	Sodium	mg/L	Lab Analysis		0	
	Sulfate	mg/L	Lab Analysis		0	
33	Conductivity	µs/cm	In situ	Quarterly	0	<i>Not scheduled for sampling during sampling period</i>
	pH	pH	In situ		0	
	SWL	mbtoc	In situ		0	
	Bicarbonate	mg/L	Lab Analysis		0	
	Calcium	mg/L	Lab Analysis		0	
	Carbonate	mg/L	Lab Analysis		0	
	Chloride	mg/L	Lab Analysis		0	

	Magnesium	mg/L	Lab Analysis		0	
	Potassium	mg/L	Lab Analysis		0	
	Sodium	mg/L	Lab Analysis		0	
	Sulfate	mg/L	Lab Analysis		0	
34	Conductivity	µs/cm	In situ	Quarterly	0	<i>Not scheduled for sampling during sampling period</i>
	pH	pH	In situ		0	
	SWL	mbtoc	In situ		0	
	Bicarbonate	mg/L	Lab Analysis		0	
	Calcium	mg/L	Lab Analysis		0	
	Carbonate	mg/L	Lab Analysis		0	
	Chloride	mg/L	Lab Analysis		0	
	Magnesium	mg/L	Lab Analysis		0	
	Potassium	mg/L	Lab Analysis		0	
	Sodium	mg/L	Lab Analysis		0	
	Sulfate	mg/L	Lab Analysis		0	
35	Conductivity	µs/cm	In situ	Quarterly	0	<i>Not scheduled for sampling during sampling period</i>
	pH	pH	In situ		0	
	SWL	mbtoc	In situ		0	
	Bicarbonate	mg/L	Lab Analysis		0	
	Calcium	mg/L	Lab Analysis		0	

	Carbonate	mg/L	Lab Analysis		0	
	Chloride	mg/L	Lab Analysis		0	
	Magnesium	mg/L	Lab Analysis		0	
	Potassium	mg/L	Lab Analysis		0	
	Sodium	mg/L	Lab Analysis		0	
	Sulfate	mg/L	Lab Analysis		0	

Table 2 - Pollutant Limits Apply (Water)

EPL ID	Pollutant	Units of Measure	Sample Method	Monitoring Frequency	No. of Samples for the Month	Date Sampled	Date Obtained	Min Value	Mean Value	Max Value	EPL Limit	Exceedance (Yes/No)	Comments (Mine Site Sample ID)
11	TSS	mg/L	Lab Analysis	Upon discharge	0	<i>No discharge occurred during sampling period</i>					50	No	SD4
	Oil & Grease	mg/L	Lab Analysis		0						10	No	
	pH	pH	In situ		0						6.5-8.5	No	
13	TSS	mg/L	Lab Analysis	Upon discharge	0	<i>No discharge occurred during sampling period</i>					50	No	SD2
	Oil & Grease	mg/L	Lab Analysis		0						10	No	
	pH	pH	In situ		0						6.5-8.5	No	
18	TSS	mg/L	Lab Analysis	Upon discharge	0	<i>No discharge occurred during sampling period</i>					50	No	SD7
	Oil & Grease	mg/L	Lab Analysis		0						10	No	
	pH	pH	In situ		0						6.5-8.5	No	
24	TDS	mg/L	Lab Analysis	Upon discharge	0	<i>Namoi discharge point – Not constructed or currently utilised.</i>					350	N/A	NR1
	pH	pH	In situ		0						6.5-8.5	N/A	
27	TSS	mg/L	Lab Analysis	Upon discharge	0	<i>No discharge occurred during reporting period</i>					50	N/A	SD8
	Oil & Grease	mg/L	Lab Analysis		0						10	N/A	
	pH	pH	In situ		0						6.5-8.5	N/A	

Table 3 – Quarterly Attended Noise Monitoring results summary table

Attended Noise Monitoring Results for Quarter 1, March 2023.

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 (D/E/N)			Compliant (Yes/No)	Date Obtained
N5 ¹	27/3/2023 ²	32 ³	26	28	34	<u>Day, Evening & Night:</u> 35 <u>Night</u> <u>LA1 (1 min):</u> 45	Day – 1.5 hrs	Y	Y	Y	Yes	26/04/2023
	28/3/2023 ²	N/M	I/A	I/A	I/A		Evening – 0.5 hrs	Y	Y	Y	Yes	
	29/3/2023 ²	I/A	35	33	39		Night – 1 hr	Y	Y	Y	Yes	
N6	27/3/2023	I/A	I/A	27	30	<u>Day, Evening & Night:</u> 35 <u>Night</u> <u>LA1 (1 min):</u> 45	Day – 1.5 hrs	Y	Y	Y	Yes	
	28/3/2023	I/A	25	N/M	N/M		Evening – 0.5 hrs	Y	Y	Y	Yes	
	29/3/2023	N/M	30	33	40		Night – 1 hr	Y	Y	Y	Yes	
N8 ¹	28/3/2023	39 ³	32	27	30	<u>Day, Evening & Night:</u> 35 <u>Night</u> <u>LA1 (1 min):</u> 45	Day – 1.5 hrs	Y	N	Y	Yes	
	29/3/2023	33	32	33	38		Evening – 0.5 hrs	N	Y	Y	Yes	
	30/3/2023	I/A	I/A	I/A	I/A		Night – 1 hr	N	N	N	Yes	
N9 ¹	28/3/2023	I/A	32	I/A	I/A	<u>Day, Evening & Night:</u> 35 <u>Night</u> <u>LA1 (1 min):</u> 45	Day – 1.5 hrs	Y	Y	Y	Yes	
	29/3/2023	I/A	34	29	34		Evening – 0.5 hrs	Y	Y	Y	Yes	
	30/3/2023	26	25	I/A	I/A		Night – 1 hr	Y	N	Y	Yes	

Note 1: Property is owned by Narrabri Coal Operations. Noise limits contained in Conditions 1-3, Schedule 4 of PA 08_0144 Mod 2 and the identical limits contained in condition L3 of Environment Protection Licence No 12789 are not applicable.

Note 2: Evening and Night monitoring conducted on this date, Day monitoring conducted during the following day period.

Note 3: Noise levels dominated by a-typical construction activities occurring onsite.

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: May 2023

Obtained Date: 25/5/2023

Publication Date: 1/6/2023

Table 1 – No Pollutant Limits Apply

EPL	Pollutant	Units of Measure	Sample Method	Monitoring Frequency	No. of Samples for the Month	Dates Sampled	Date Obtained	Min Value	Mean Value	Median Value	Max or Only Value
ND3	Deposited Matter	g/m ² /month	Lab Analysis	Once a month (min. 4 weeks)	1	11/05/2023	25/05/2023	NA	NA	NA	0.6
11	Conductivity	µs/cm	In situ	Upon discharge (within 12 hours)	<i>No discharge occurred during sampling period (SD4)</i>						
	TOC	mg/L	Lab Analysis								
13	Conductivity	µs/cm	In situ	Upon discharge (within 12 hours)	<i>No discharge occurred during sampling period (SD2)</i>						
	TOC	mg/L	Lab Analysis								
14	Conductivity	µs/cm	In situ	In the event of flow during the quarter & after each wet weather discharge from points 11, 13, 18,27	<i>No flow events and/or mine discharge occurred during sampling period (KC1US)</i>						
	TOC	mg/L	Lab Analysis								
	Oil & Grease	mg/L	Lab Analysis								
	pH	pH	In situ								
15	TSS	mg/L	Lab Analysis	In the event of flow during the quarter & after each wet weather discharge from points 11, 13, 18,27	<i>No flow events and/or mine discharge occurred during sampling period (KC1DS)</i>						
	Conductivity	µs/cm	In situ								
	TOC	mg/L	Lab Analysis								
	Oil & Grease	mg/L	Lab Analysis								
	pH	pH	In situ								



16	Conductivity	µs/cm	In situ	In the event of flow during the quarter & after each wet weather discharge from points 11, 13, 18,27	<i>No flow events and/or mine discharge occurred during sampling period (KC2US)</i>
	TOC	mg/L	Lab Analysis		
	Oil & Grease	mg/L	Lab Analysis		
	pH	pH	In situ		
	TSS	mg/L	Lab Analysis		
17	Conductivity	µs/cm	In situ	In the event of flow during the quarter & after each wet weather discharge from points 11, 13, 18,27	<i>No flow events and/or mine discharge occurred during sampling period (KC2DS)</i>
	TOC	mg/L	Lab Analysis		
	Oil & Grease	mg/L	Lab Analysis		
	pH	pH	In situ		
	TSS	mg/L	Lab Analysis		
18	Conductivity	µs/cm	In Situ	Upon discharge (within 12 hours)	<i>No discharge occurred during sampling period (SD7)</i>
	TOC	mg/L	Lab Analysis		
19	Conductivity	µs/cm	In situ	In the event of flow during the quarter & after each wet weather discharge from points 11, 13, 18,27	<i>No flow events and/or mine discharge occurred during sampling period (KCUS)</i>
	TOC	mg/L	Lab Analysis		
	Oil & Grease	mg/L	Lab Analysis		
	pH	pH	In situ		
	TSS	mg/L	Lab Analysis		
20	Conductivity	µs/cm	In situ	In the event of flow during the quarter & after each wet weather discharge	<i>No flow events and/or mine discharge occurred during sampling period (KCDS)</i>
	TOC	mg/L	Lab Analysis		
	Oil & Grease	mg/L	Lab Analysis		
	pH	pH	In situ		

	TSS	mg/L	Lab Analysis	from points 11, 13, 18,27		
21	Conductivity	µs/cm	In situ	In the event of flow during the quarter & after each wet weather discharge from points 11, 13, 18,27	<i>No flow events and/or mine discharge occurred during sampling period (PCa)</i>	
	TOC	mg/L	Lab Analysis			
	Oil & Grease	mg/L	Lab Analysis			
	pH	pH	In situ			
	TSS	mg/L	Lab Analysis			
22	Conductivity	µs/cm	In situ	In the event of flow during the quarter & after each wet weather discharge from points 11, 13, 18,27	<i>No flow events and/or mine discharge occurred during sampling period (PC1)</i>	
	TOC	mg/L	Lab Analysis			
	Oil & Grease	mg/L	Lab Analysis			
	pH	pH	In situ			
	TSS	mg/L	Lab Analysis			
24	pH	pH	In situ	Upon Discharge (within 4 hrs)	<i>Namoi discharge point – Not constructed or currently utilised (NR1).</i>	
	TDS	mg/L	Lab Analysis			
25	pH	pH	In situ	Upon Discharge (within 4 hrs)	<i>Namoi discharge point – Not constructed or currently utilised (NRUS).</i>	
	TDS	mg/L	Lab Analysis			
26	pH	pH	In situ	Upon Discharge (within 4 hrs)	<i>Namoi discharge point – Not constructed or currently utilised (NRDS).</i>	
	TDS	mg/L	Lab Analysis			
28	Conductivity	µs/cm	In situ	Quarterly	0	<i>Not scheduled for sampling during sampling period</i>
	pH	pH	In situ		0	
	SWL	mbtoc	In situ		0	
	Bicarbonate	mg/L	Lab Analysis		0	

	Calcium	mg/L	Lab Analysis		0	
	Carbonate	mg/L	Lab Analysis		0	
	Chloride	mg/L	Lab Analysis		0	
	Magnesium	mg/L	Lab Analysis		0	
	Potassium	mg/L	Lab Analysis		0	
	Sodium	mg/L	Lab Analysis		0	
	Sulfate	mg/L	Lab Analysis		0	
29	Conductivity	µs/cm	In situ	Quarterly	0	<i>Not scheduled for sampling during sampling period</i>
	pH	pH	In situ		0	
	SWL	mbtoc	In situ		0	
	Bicarbonate	mg/L	Lab Analysis		0	
	Calcium	mg/L	Lab Analysis		0	
	Carbonate	mg/L	Lab Analysis		0	
	Chloride	mg/L	Lab Analysis		0	
	Magnesium	mg/L	Lab Analysis		0	
	Potassium	mg/L	Lab Analysis		0	
	Sodium	mg/L	Lab Analysis		0	
	Sulfate	mg/L	Lab Analysis		0	

30	Conductivity	µs/cm	In situ	Quarterly	0	<i>Not scheduled for sampling during sampling period</i>
	pH	pH	In situ		0	
	SWL	mbtoc	In situ		0	
	Bicarbonate	mg/L	Lab Analysis		0	
	Calcium	mg/L	Lab Analysis		0	
	Carbonate	mg/L	Lab Analysis		0	
	Chloride	mg/L	Lab Analysis		0	
	Magnesium	mg/L	Lab Analysis		0	
	Potassium	mg/L	Lab Analysis		0	
	Sodium	mg/L	Lab Analysis		0	
	Sulfate	mg/L	Lab Analysis		0	
31	Conductivity	µs/cm	In situ	Quarterly	0	<i>Not scheduled for sampling during sampling period</i>
	pH	pH	In situ		0	
	SWL	mbtoc	In situ		0	
	Bicarbonate	mg/L	Lab Analysis		0	
	Calcium	mg/L	Lab Analysis		0	
	Carbonate	mg/L	Lab Analysis		0	
	Chloride	mg/L	Lab Analysis		0	
	Magnesium	mg/L	Lab Analysis		0	
	Potassium	mg/L	Lab Analysis		0	

	Sodium	mg/L	Lab Analysis		0	
	Sulfate	mg/L	Lab Analysis		0	
32	Conductivity	µs/cm	In situ	Quarterly	0	<i>Not scheduled for sampling during sampling period</i>
	pH	pH	In situ		0	
	SWL	mbtoc	In situ		0	
	Bicarbonate	mg/L	Lab Analysis		0	
	Calcium	mg/L	Lab Analysis		0	
	Carbonate	mg/L	Lab Analysis		0	
	Chloride	mg/L	Lab Analysis		0	
	Magnesium	mg/L	Lab Analysis		0	
	Potassium	mg/L	Lab Analysis		0	
	Sodium	mg/L	Lab Analysis		0	
	Sulfate	mg/L	Lab Analysis		0	
	33	Conductivity	µs/cm		In situ	
pH		pH	In situ	0		
SWL		mbtoc	In situ	0		
Bicarbonate		mg/L	Lab Analysis	0		
Calcium		mg/L	Lab Analysis	0		
Carbonate		mg/L	Lab Analysis	0		
Chloride		mg/L	Lab Analysis	0		

	Magnesium	mg/L	Lab Analysis		0	
	Potassium	mg/L	Lab Analysis		0	
	Sodium	mg/L	Lab Analysis		0	
	Sulfate	mg/L	Lab Analysis		0	
34	Conductivity	µs/cm	In situ	Quarterly	0	<i>Not scheduled for sampling during sampling period</i>
	pH	pH	In situ		0	
	SWL	mbtoc	In situ		0	
	Bicarbonate	mg/L	Lab Analysis		0	
	Calcium	mg/L	Lab Analysis		0	
	Carbonate	mg/L	Lab Analysis		0	
	Chloride	mg/L	Lab Analysis		0	
	Magnesium	mg/L	Lab Analysis		0	
	Potassium	mg/L	Lab Analysis		0	
	Sodium	mg/L	Lab Analysis		0	
	Sulfate	mg/L	Lab Analysis		0	
35	Conductivity	µs/cm	In situ	Quarterly	0	<i>Not scheduled for sampling during sampling period</i>
	pH	pH	In situ		0	
	SWL	mbtoc	In situ		0	
	Bicarbonate	mg/L	Lab Analysis		0	
	Calcium	mg/L	Lab Analysis		0	



	Carbonate	mg/L	Lab Analysis		0	
	Chloride	mg/L	Lab Analysis		0	
	Magnesium	mg/L	Lab Analysis		0	
	Potassium	mg/L	Lab Analysis		0	
	Sodium	mg/L	Lab Analysis		0	
	Sulfate	mg/L	Lab Analysis		0	



Table 2 - Pollutant Limits Apply (Water)

EPL ID	Pollutant	Units of Measure	Sample Method	Monitoring Frequency	No. of Samples for the Month	Date Sampled	Date Obtained	Min Value	Mean Value	Max Value	EPL Limit	Exceedance (Yes/No)	Comments (Mine Site Sample ID)
11	TSS	mg/L	Lab Analysis	Upon discharge	0	<i>No discharge occurred during sampling period</i>					50	No	SD4
	Oil & Grease	mg/L	Lab Analysis		0						10	No	
	pH	pH	In situ		0						6.5-8.5	No	
13	TSS	mg/L	Lab Analysis	Upon discharge	0	<i>No discharge occurred during sampling period</i>					50	No	SD2
	Oil & Grease	mg/L	Lab Analysis		0						10	No	
	pH	pH	In situ		0						6.5-8.5	No	
18	TSS	mg/L	Lab Analysis	Upon discharge	0	<i>No discharge occurred during sampling period</i>					50	No	SD7
	Oil & Grease	mg/L	Lab Analysis		0						10	No	
	pH	pH	In situ		0						6.5-8.5	No	
24	TDS	mg/L	Lab Analysis	Upon discharge	0	<i>Namoi discharge point – Not constructed or currently utilised.</i>					350	N/A	NR1
	pH	pH	In situ		0						6.5-8.5	N/A	
27	TSS	mg/L	Lab Analysis	Upon discharge	0	<i>No discharge occurred during reporting period</i>					50	N/A	SD8
	Oil & Grease	mg/L	Lab Analysis		0						10	N/A	
	pH	pH	In situ		0						6.5-8.5	N/A	



Table 3 – Quarterly Attended Noise Monitoring results summary table

Not scheduled for sampling during reporting period. Next scheduled sampling is for Quarter 2, June 2023.

EPL ID	Date	Measured Levels – dB(A)	Limit(s)	Measurement Periods	Weather Compliant Conditions (D/E/N)			Compliant (Yes/No)	Date Obtained			
		Leq 15min Day	Leq 15min Evening	Leq 15min Night	LA1 (1 min) Night							
N5 ¹						<u>Day, Evening & Night:</u> 35 <u>Night</u> <u>LA1 (1 min):</u> 45	Day – 1.5 hrs Evening – 0.5 hrs Night – 1 hr					
N6						<u>Day, Evening & Night:</u> 35 <u>Night</u> <u>LA1 (1 min):</u> 45	Day – 1.5 hrs Evening – 0.5 hrs Night – 1 hr					
N8 ¹						<u>Day, Evening & Night:</u> 35 <u>Night</u> <u>LA1 (1 min):</u> 45	Day – 1.5 hrs Evening – 0.5 hrs Night – 1 hr					
N9 ¹						<u>Day, Evening & Night:</u> 35 <u>Night</u> <u>LA1 (1 min):</u> 45	Day – 1.5 hrs Evening – 0.5 hrs Night – 1 hr					

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 2023

Obtained Date: 03/07/2023

Publication Date: 17/07/2023

Publication Date (v2): 25/07/2023 *updated upon receipt of Noise Monitoring Results

Table 1 – No Pollutant Limits Apply

EPL	Pollutant	Units of Measure	Sample Method	Monitoring Frequency	No. of Samples for the Month	Dates Sampled	Date Obtained	Min Value	Mean Value	Median Value	Max or Only Value
ND3	Deposited Matter	g/m ² /month	Lab Analysis	Once a month (min. 4 weeks)	1	13/06/2023	27/06/2023	NA	NA	NA	0.4
11	Conductivity	µs/cm	In situ	Upon discharge (within 12 hours)	<i>No discharge occurred during sampling period (SD4)</i>						
	TOC	mg/L	Lab Analysis								
13	Conductivity	µs/cm	In situ	Upon discharge (within 12 hours)	<i>No discharge occurred during sampling period (SD2)</i>						
	TOC	mg/L	Lab Analysis								
14	Conductivity	µs/cm	In situ	In the event of flow during the quarter & after each wet weather discharge from points 11, 13, 18,27	0	Ambient Flow 29/06/23 (quarterly check completed, no flow)	NA	NA	NA	NA	
	TOC	mg/L	Lab Analysis		0		NA	NA	NA	NA	
	Oil & Grease	mg/L	Lab Analysis		0		NA	NA	NA	NA	
	pH	pH	In situ		0		NA	NA	NA	NA	
	TSS	mg/L	Lab Analysis		0		NA	NA	NA	NA	
15	Conductivity	µs/cm	In situ	In the event of flow during the quarter & after each wet weather discharge from points 11, 13, 18,27	0	Ambient Flow 29/06/23 (quarterly check completed, no flow)	NA	NA	NA	NA	
	TOC	mg/L	Lab Analysis		0		NA	NA	NA	NA	
	Oil & Grease	mg/L	Lab Analysis		0		NA	NA	NA	NA	
	pH	pH	In situ		0		NA	NA	NA	NA	
	TSS	mg/L	Lab Analysis		0		NA	NA	NA	NA	

16	Conductivity	µs/cm	In situ	In the event of flow during the quarter & after each wet weather discharge from points 11, 13, 18,27	0	Ambient Flow 29/06/23 (quarterly check completed, no flow)	NA	NA	NA	NA
	TOC	mg/L	Lab Analysis		0		NA	NA	NA	NA
	Oil & Grease	mg/L	Lab Analysis		0		NA	NA	NA	NA
	pH	pH	In situ		0		NA	NA	NA	NA
	TSS	mg/L	Lab Analysis		0		NA	NA	NA	NA
17	Conductivity	µs/cm	In situ	In the event of flow during the quarter & after each wet weather discharge from points 11, 13, 18,27	0	Ambient Flow 29/06/23 (quarterly check completed, no flow)	NA	NA	NA	NA
	TOC	mg/L	Lab Analysis		0		NA	NA	NA	NA
	Oil & Grease	mg/L	Lab Analysis		0		NA	NA	NA	NA
	pH	pH	In situ		0		NA	NA	NA	NA
	TSS	mg/L	Lab Analysis		0		NA	NA	NA	NA
18	Conductivity	µs/cm	In Situ	Upon discharge (within 12 hours)	<i>No discharge occurred during sampling period (SD7)</i>					
	TOC	mg/L	Lab Analysis							
19	Conductivity	µs/cm	In situ	In the event of flow during the quarter & after each wet weather discharge from points 11, 13, 18,27	0	Ambient Flow 29/06/23 (quarterly check completed, no flow)	NA	NA	NA	NA
	TOC	mg/L	Lab Analysis		0		NA	NA	NA	NA
	Oil & Grease	mg/L	Lab Analysis		0		NA	NA	NA	NA
	pH	pH	In situ		0		NA	NA	NA	NA
	TSS	mg/L	Lab Analysis		0		NA	NA	NA	NA
20	Conductivity	µs/cm	In situ	In the event of flow during the quarter & after each wet weather discharge	0	Ambient Flow 29/06/23 (quarterly check completed, no flow)	NA	NA	NA	NA
	TOC	mg/L	Lab Analysis		0		NA	NA	NA	NA
	Oil & Grease	mg/L	Lab Analysis		0		NA	NA	NA	NA
	pH	pH	In situ		0		NA	NA	NA	NA

	TSS	mg/L	Lab Analysis	from points 11, 13, 18,27	0		NA	NA	NA	NA
21	Conductivity	µs/cm	In situ	In the event of flow during the quarter & after each wet weather discharge from points 11, 13, 18,27	0	Ambient Flow 29/06/23 (quarterly check completed, no flow)	NA	NA	NA	NA
	TOC	mg/L	Lab Analysis		0		NA	NA	NA	NA
	Oil & Grease	mg/L	Lab Analysis		0		NA	NA	NA	NA
	pH	pH	In situ		0		NA	NA	NA	NA
	TSS	mg/L	Lab Analysis		0		NA	NA	NA	NA
22	Conductivity	µs/cm	In situ	In the event of flow during the quarter & after each wet weather discharge from points 11, 13, 18,27	0	Ambient Flow 29/06/23 (quarterly check completed, no flow)	NA	NA	NA	NA
	TOC	mg/L	Lab Analysis		0		NA	NA	NA	NA
	Oil & Grease	mg/L	Lab Analysis		0		NA	NA	NA	NA
	pH	pH	In situ		0		NA	NA	NA	NA
	TSS	mg/L	Lab Analysis		0		NA	NA	NA	NA
24	pH	pH	In situ	Upon Discharge (within 4 hrs)	<i>Namoi discharge point – Not constructed or currently utilised (NR1).</i>					
	TDS	mg/L	Lab Analysis							
25	pH	pH	In situ	Upon Discharge (within 4 hrs)	<i>Namoi discharge point – Not constructed or currently utilised (NRUS).</i>					
	TDS	mg/L	Lab Analysis							
26	pH	pH	In situ	Upon Discharge (within 4 hrs)	<i>Namoi discharge point – Not constructed or currently utilised (NRDS).</i>					
	TDS	mg/L	Lab Analysis							
28	Conductivity	µs/cm	In situ	Quarterly	0	<i>Bore was dry during sampling period</i>				
	pH	pH	In situ		0					
	SWL	mbtoc	In situ		0					
	Bicarbonate	mg/L	Lab Analysis		0					

	Calcium	mg/L	Lab Analysis		0						
	Carbonate	mg/L	Lab Analysis		0						
	Chloride	mg/L	Lab Analysis		0						
	Magnesium	mg/L	Lab Analysis		0						
	Potassium	mg/L	Lab Analysis		0						
	Sodium	mg/L	Lab Analysis		0						
	Sulfate	mg/L	Lab Analysis		0						
29	Conductivity	µs/cm	In situ	Quarterly	1	23/06/2023	3/07/2023	NA	NA	NA	15480
	pH	pH	In situ		1	23/06/2023	3/07/2023	NA	NA	NA	7.08
	SWL	mbtoc	In situ		1	23/06/2023	3/07/2023	NA	NA	NA	4.50
	Bicarbonate	mg/L	Lab Analysis		1	23/06/2023	3/07/2023	NA	NA	NA	658
	Calcium	mg/L	Lab Analysis		1	23/06/2023	3/07/2023	NA	NA	NA	120
	Carbonate	mg/L	Lab Analysis		1	23/06/2023	3/07/2023	NA	NA	NA	<1
	Chloride	mg/L	Lab Analysis		1	23/06/2023	3/07/2023	NA	NA	NA	4680
	Magnesium	mg/L	Lab Analysis		1	23/06/2023	3/07/2023	NA	NA	NA	262
	Potassium	mg/L	Lab Analysis		1	23/06/2023	3/07/2023	NA	NA	NA	4
	Sodium	mg/L	Lab Analysis		1	23/06/2023	3/07/2023	NA	NA	NA	3010
	Sulfate	mg/L	Lab Analysis		1	23/06/2023	3/07/2023	NA	NA	NA	638

30	Conductivity	µs/cm	In situ	Quarterly	1	23/06/2023	3/07/2023	NA	NA	NA	18990
	pH	pH	In situ		1	23/06/2023	3/07/2023	NA	NA	NA	6.94
	SWL	mbtoc	In situ		1	23/06/2023	3/07/2023	NA	NA	NA	12.74
	Bicarbonate	mg/L	Lab Analysis		1	23/06/2023	3/07/2023	NA	NA	NA	841
	Calcium	mg/L	Lab Analysis		1	23/06/2023	3/07/2023	NA	NA	NA	152
	Carbonate	mg/L	Lab Analysis		1	23/06/2023	3/07/2023	NA	NA	NA	<1
	Chloride	mg/L	Lab Analysis		1	23/06/2023	3/07/2023	NA	NA	NA	4990
	Magnesium	mg/L	Lab Analysis		1	23/06/2023	3/07/2023	NA	NA	NA	350
	Potassium	mg/L	Lab Analysis		1	23/06/2023	3/07/2023	NA	NA	NA	16
	Sodium	mg/L	Lab Analysis		1	23/06/2023	3/07/2023	NA	NA	NA	3080
	Sulfate	mg/L	Lab Analysis		1	23/06/2023	3/07/2023	NA	NA	NA	1080
31	Conductivity	µs/cm	In situ	Quarterly	1	23/06/2023	3/07/2023	NA	NA	NA	6940
	pH	pH	In situ		1	23/06/2023	3/07/2023	NA	NA	NA	7.07
	SWL	mbtoc	In situ		1	23/06/2023	3/07/2023	NA	NA	NA	16.62
	Bicarbonate	mg/L	Lab Analysis		1	23/06/2023	3/07/2023	NA	NA	NA	840
	Calcium	mg/L	Lab Analysis		1	23/06/2023	3/07/2023	NA	NA	NA	98
	Carbonate	mg/L	Lab Analysis		1	23/06/2023	3/07/2023	NA	NA	NA	<1
	Chloride	mg/L	Lab Analysis		1	23/06/2023	3/07/2023	NA	NA	NA	1590
	Magnesium	mg/L	Lab Analysis		1	23/06/2023	3/07/2023	NA	NA	NA	168
	Potassium	mg/L	Lab Analysis		1	23/06/2023	3/07/2023	NA	NA	NA	12

	Sodium	mg/L	Lab Analysis		1	23/06/2023	3/07/2023	NA	NA	NA	1220
	Sulfate	mg/L	Lab Analysis		1	23/06/2023	3/07/2023	NA	NA	NA	309
32	Conductivity	µs/cm	In situ	Quarterly	1	23/06/2023	3/07/2023	NA	NA	NA	1918
	pH	pH	In situ		1	23/06/2023	3/07/2023	NA	NA	NA	8.32
	SWL	mbtoc	In situ		1	23/06/2023	3/07/2023	NA	NA	NA	7.78
	Bicarbonate	mg/L	Lab Analysis		1	23/06/2023	3/07/2023	NA	NA	NA	845
	Calcium	mg/L	Lab Analysis		1	23/06/2023	3/07/2023	NA	NA	NA	<1
	Carbonate	mg/L	Lab Analysis		1	23/06/2023	3/07/2023	NA	NA	NA	44
	Chloride	mg/L	Lab Analysis		1	23/06/2023	3/07/2023	NA	NA	NA	59
	Magnesium	mg/L	Lab Analysis		1	23/06/2023	3/07/2023	NA	NA	NA	3
	Potassium	mg/L	Lab Analysis		1	23/06/2023	3/07/2023	NA	NA	NA	<1
	Sodium	mg/L	Lab Analysis		1	23/06/2023	3/07/2023	NA	NA	NA	456
	Sulfate	mg/L	Lab Analysis		1	23/06/2023	3/07/2023	NA	NA	NA	51
33	Conductivity	µs/cm	In situ	Quarterly	0	<i>Bore was dry during sampling period</i>					
	pH	pH	In situ		0						
	SWL	mbtoc	In situ		0						
	Bicarbonate	mg/L	Lab Analysis		0						
	Calcium	mg/L	Lab Analysis		0						
	Carbonate	mg/L	Lab Analysis		0						
	Chloride	mg/L	Lab Analysis		0						

	Magnesium	mg/L	Lab Analysis		0						
	Potassium	mg/L	Lab Analysis		0						
	Sodium	mg/L	Lab Analysis		0						
	Sulfate	mg/L	Lab Analysis		0						
34	Conductivity	µs/cm	In situ	Quarterly	0	<i>Bore was dry during sampling period</i>					
	pH	pH	In situ		0						
	SWL	mbtoc	In situ		0						
	Bicarbonate	mg/L	Lab Analysis		0						
	Calcium	mg/L	Lab Analysis		0						
	Carbonate	mg/L	Lab Analysis		0						
	Chloride	mg/L	Lab Analysis		0						
	Magnesium	mg/L	Lab Analysis		0						
	Potassium	mg/L	Lab Analysis		0						
	Sodium	mg/L	Lab Analysis		0						
	Sulfate	mg/L	Lab Analysis		0						
35	Conductivity	µs/cm	In situ	Quarterly	1	23/06/2023	3/07/2023	NA	NA	NA	11480
	pH	pH	In situ		1	23/06/2023	3/07/2023	NA	NA	NA	6.88
	SWL	mbtoc	In situ		1	23/06/2023	3/07/2023	NA	NA	NA	18.42
	Bicarbonate	mg/L	Lab Analysis		1	23/06/2023	3/07/2023	NA	NA	NA	5030
	Calcium	mg/L	Lab Analysis		1	23/06/2023	3/07/2023	NA	NA	NA	15

	Carbonate	mg/L	Lab Analysis		1	23/06/2023	3/07/2023	NA	NA	NA	<1
	Chloride	mg/L	Lab Analysis		1	23/06/2023	3/07/2023	NA	NA	NA	1380
	Magnesium	mg/L	Lab Analysis		1	23/06/2023	3/07/2023	NA	NA	NA	59
	Potassium	mg/L	Lab Analysis		1	23/06/2023	3/07/2023	NA	NA	NA	74
	Sodium	mg/L	Lab Analysis		1	23/06/2023	3/07/2023	NA	NA	NA	3270
	Sulfate	mg/L	Lab Analysis		1	23/06/2023	3/07/2023	NA	NA	NA	88

Table 2 - Pollutant Limits Apply (Water)

EPL ID	Pollutant	Units of Measure	Sample Method	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 (Mine Site Sample ID)
11	TSS	mg/L	Lab Analysis	Upon discharge	0	<i>No discharge occurred during sampling period</i>					50	No	SD4
	Oil & Grease	mg/L	Lab Analysis		0						10	No	
	pH	pH	In situ		0						6.5-8.5	No	
13	TSS	mg/L	Lab Analysis	Upon discharge	0	<i>No discharge occurred during sampling period</i>					50	No	SD2
	Oil & Grease	mg/L	Lab Analysis		0						10	No	
	pH	pH	In situ		0						6.5-8.5	No	
18	TSS	mg/L	Lab Analysis	Upon discharge	0	<i>No discharge occurred during sampling period</i>					50	No	SD7
	Oil & Grease	mg/L	Lab Analysis		0						10	No	
	pH	pH	In situ		0						6.5-8.5	No	
24	TDS	mg/L	Lab Analysis	Upon discharge	0	<i>Namoi discharge point – Not constructed or currently utilised.</i>					350	N/A	NR1
	pH	pH	In situ		0						6.5-8.5	N/A	
27	TSS	mg/L	Lab Analysis	Upon discharge	0	<i>No discharge occurred during reporting period</i>					50	N/A	SD8
	Oil & Grease	mg/L	Lab Analysis		0						10	N/A	
	pH	pH	In situ		0						6.5-8.5	N/A	

Table 3 – Quarterly Attended Noise Monitoring results summary table

EPL ID	Date	Measured Levels – dB(A)	Limit(s)	Measurement Periods	Weather Compliant Conditions (D/E/N)			Compliant (Yes/No)	Date Obtained			
		Leq 15min Day	Leq 15min Evening	Leq 15min Night	LA1 (1 min) Night							
N5 ¹	19/06/2023 ²	I/A	27	30	38	<u>Day, Evening & Night:</u> 35 <u>Night</u> <u>LA1 (1 min):</u> 45	Day – 1.5 hrs	N	N	N	Yes	19/07/2023
	20/06/2023 ²	34	I/A	I/A	I/A		Evening – 0.5 hrs	Y	Y	Y	Yes	
	21/06/2023 ²	34	N/M	25	27		Night – 1 hr	Y	Y	N	Yes	
N6	19/06/2023 ²	N/M	28	32	38	<u>Day, Evening & Night:</u> 35 <u>Night</u> <u>LA1 (1 min):</u> 45	Day – 1.5 hrs	N	N	N	Yes	
	20/06/2023 ²	28	25	25	31		Evening – 0.5 hrs	N	Y	Y	Yes	
	21/06/2023 ²	N/M	I/A	<25	25		Night – 1 hr	Y	Y	Y	Yes	
N8 ¹	19/06/2023 ²	I/A	N/M	25	28	<u>Day, Evening & Night:</u> 35 <u>Night</u> <u>LA1 (1 min):</u> 45	Day – 1.5 hrs	Y	N	N	Yes	
	20/06/2023 ²	I/A	I/A	I/A	I/A		Evening – 0.5 hrs	Y	Y	Y	Yes	
	21/06/2023 ²	34	I/A	I/A	I/A		Night – 1 hr	Y	Y	Y	Yes	
N9 ¹	19/06/2023 ²	25	25	31	34	<u>Day, Evening & Night:</u> 35 <u>Night</u> <u>LA1 (1 min):</u> 45	Day – 1.5 hrs	Y	N	N	Yes	
	20/06/2023 ²	I/A	I/A	I/A	I/A		Evening – 0.5 hrs	Y	Y	Y	Yes	
	21/06/2023 ²	I/A	I/A	I/A	I/A		Night – 1 hr	Y	Y	Y	Yes	

Note 1: Property is owned by Narrabri Coal Operations. Noise limits contained in Conditions 1-3, Schedule 4 of PA 08_0144 Mod 2 and the identical limits contained in Condition L3 of Environment Protection Licence No 12789 are not applicable.

Note 2: Evening and Night monitoring conducted on this date, Day monitoring conducted during the following day period.

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 2023

Obtained Date: 26/07/2023

Publication Date: 03/08/2023

Table 1 – No Pollutant Limits Apply

EPL	Pollutant	Units of Measure	Sample Method	Monitoring Frequency	No. of Samples for the Month	Dates Sampled	Date Obtained	Min Value	Mean Value	Median Value	Max or Only Value
ND3	Deposited Matter	g/m ² /month	Lab Analysis	Once a month (min. 4 weeks)	1	12/07/2023	26/07/2023	NA	NA	NA	1.2
11	Conductivity	µs/cm	In situ	Upon discharge (within 12 hours)	<i>No discharge occurred during sampling period (SD4)</i>						
	TOC	mg/L	Lab Analysis								
13	Conductivity	µs/cm	In situ	Upon discharge (within 12 hours)	<i>No discharge occurred during sampling period (SD2)</i>						
	TOC	mg/L	Lab Analysis								
14	Conductivity	µs/cm	In situ	In the event of flow during the quarter & after each wet weather discharge from points 11, 13, 18,27	<i>No flow events and/or mine discharge occurred during sampling period (KC1US)</i>						
	TOC	mg/L	Lab Analysis								
	Oil & Grease	mg/L	Lab Analysis								
	pH	pH	In situ								
15	TSS	mg/L	Lab Analysis	In the event of flow during the quarter & after each wet weather discharge from points 11, 13, 18,27	<i>No flow events and/or mine discharge occurred during sampling period (KC1DS)</i>						
	Conductivity	µs/cm	In situ								
	TOC	mg/L	Lab Analysis								
	Oil & Grease	mg/L	Lab Analysis								
	pH	pH	In situ								

16	Conductivity	µs/cm	In situ	In the event of flow during the quarter & after each wet weather discharge from points 11, 13, 18,27	<i>No flow events and/or mine discharge occurred during sampling period (KC2US)</i>
	TOC	mg/L	Lab Analysis		
	Oil & Grease	mg/L	Lab Analysis		
	pH	pH	In situ		
	TSS	mg/L	Lab Analysis		
17	Conductivity	µs/cm	In situ	In the event of flow during the quarter & after each wet weather discharge from points 11, 13, 18,27	<i>No flow events and/or mine discharge occurred during sampling period (KC2DS)</i>
	TOC	mg/L	Lab Analysis		
	Oil & Grease	mg/L	Lab Analysis		
	pH	pH	In situ		
	TSS	mg/L	Lab Analysis		
18	Conductivity	µs/cm	In Situ	Upon discharge (within 12 hours)	<i>No discharge occurred during sampling period (SD7)</i>
	TOC	mg/L	Lab Analysis		
19	Conductivity	µs/cm	In situ	In the event of flow during the quarter & after each wet weather discharge from points 11, 13, 18,27	<i>No flow events and/or mine discharge occurred during sampling period (KCUS)</i>
	TOC	mg/L	Lab Analysis		
	Oil & Grease	mg/L	Lab Analysis		
	pH	pH	In situ		
	TSS	mg/L	Lab Analysis		
20	Conductivity	µs/cm	In situ	In the event of flow during the quarter & after each wet weather discharge	<i>No flow events and/or mine discharge occurred during sampling period (KCDS)</i>
	TOC	mg/L	Lab Analysis		
	Oil & Grease	mg/L	Lab Analysis		
	pH	pH	In situ		

	TSS	mg/L	Lab Analysis	from points 11, 13, 18,27		
21	Conductivity	µs/cm	In situ	In the event of flow during the quarter & after each wet weather discharge from points 11, 13, 18,27	<i>No flow events and/or mine discharge occurred during sampling period (PCa)</i>	
	TOC	mg/L	Lab Analysis			
	Oil & Grease	mg/L	Lab Analysis			
	pH	pH	In situ			
	TSS	mg/L	Lab Analysis			
22	Conductivity	µs/cm	In situ	In the event of flow during the quarter & after each wet weather discharge from points 11, 13, 18,27	<i>No flow events and/or mine discharge occurred during sampling period (PC1)</i>	
	TOC	mg/L	Lab Analysis			
	Oil & Grease	mg/L	Lab Analysis			
	pH	pH	In situ			
	TSS	mg/L	Lab Analysis			
24	pH	pH	In situ	Upon Discharge (within 4 hrs)	<i>Namoi discharge point – Not constructed or currently utilised (NR1).</i>	
	TDS	mg/L	Lab Analysis			
25	pH	pH	In situ	Upon Discharge (within 4 hrs)	<i>Namoi discharge point – Not constructed or currently utilised (NRUS).</i>	
	TDS	mg/L	Lab Analysis			
26	pH	pH	In situ	Upon Discharge (within 4 hrs)	<i>Namoi discharge point – Not constructed or currently utilised (NRDS).</i>	
	TDS	mg/L	Lab Analysis			
28	Conductivity	µs/cm	In situ	Quarterly	0	<i>Not scheduled for sampling during sampling period</i>
	pH	pH	In situ		0	
	SWL	mbtoc	In situ		0	
	Bicarbonate	mg/L	Lab Analysis		0	

	Calcium	mg/L	Lab Analysis		0	
	Carbonate	mg/L	Lab Analysis		0	
	Chloride	mg/L	Lab Analysis		0	
	Magnesium	mg/L	Lab Analysis		0	
	Potassium	mg/L	Lab Analysis		0	
	Sodium	mg/L	Lab Analysis		0	
	Sulfate	mg/L	Lab Analysis		0	
29	Conductivity	µs/cm	In situ	Quarterly	0	<i>Not scheduled for sampling during sampling period</i>
	pH	pH	In situ		0	
	SWL	mbtoc	In situ		0	
	Bicarbonate	mg/L	Lab Analysis		0	
	Calcium	mg/L	Lab Analysis		0	
	Carbonate	mg/L	Lab Analysis		0	
	Chloride	mg/L	Lab Analysis		0	
	Magnesium	mg/L	Lab Analysis		0	
	Potassium	mg/L	Lab Analysis		0	
	Sodium	mg/L	Lab Analysis		0	
	Sulfate	mg/L	Lab Analysis		0	

30	Conductivity	µs/cm	In situ	Quarterly	0	<i>Not scheduled for sampling during sampling period</i>
	pH	pH	In situ		0	
	SWL	mbtoc	In situ		0	
	Bicarbonate	mg/L	Lab Analysis		0	
	Calcium	mg/L	Lab Analysis		0	
	Carbonate	mg/L	Lab Analysis		0	
	Chloride	mg/L	Lab Analysis		0	
	Magnesium	mg/L	Lab Analysis		0	
	Potassium	mg/L	Lab Analysis		0	
	Sodium	mg/L	Lab Analysis		0	
Sulfate	mg/L	Lab Analysis	0			
31	Conductivity	µs/cm	In situ	Quarterly	0	<i>Not scheduled for sampling during sampling period</i>
	pH	pH	In situ		0	
	SWL	mbtoc	In situ		0	
	Bicarbonate	mg/L	Lab Analysis		0	
	Calcium	mg/L	Lab Analysis		0	
	Carbonate	mg/L	Lab Analysis		0	
	Chloride	mg/L	Lab Analysis		0	
	Magnesium	mg/L	Lab Analysis		0	
	Potassium	mg/L	Lab Analysis		0	

	Sodium	mg/L	Lab Analysis		0	
	Sulfate	mg/L	Lab Analysis		0	
32	Conductivity	µs/cm	In situ	Quarterly	0	<i>Not scheduled for sampling during sampling period</i>
	pH	pH	In situ		0	
	SWL	mbtoc	In situ		0	
	Bicarbonate	mg/L	Lab Analysis		0	
	Calcium	mg/L	Lab Analysis		0	
	Carbonate	mg/L	Lab Analysis		0	
	Chloride	mg/L	Lab Analysis		0	
	Magnesium	mg/L	Lab Analysis		0	
	Potassium	mg/L	Lab Analysis		0	
	Sodium	mg/L	Lab Analysis		0	
	Sulfate	mg/L	Lab Analysis		0	
33	Conductivity	µs/cm	In situ	Quarterly	0	<i>Not scheduled for sampling during sampling period</i>
	pH	pH	In situ		0	
	SWL	mbtoc	In situ		0	
	Bicarbonate	mg/L	Lab Analysis		0	
	Calcium	mg/L	Lab Analysis		0	
	Carbonate	mg/L	Lab Analysis		0	
	Chloride	mg/L	Lab Analysis		0	

	Magnesium	mg/L	Lab Analysis		0	
	Potassium	mg/L	Lab Analysis		0	
	Sodium	mg/L	Lab Analysis		0	
	Sulfate	mg/L	Lab Analysis		0	
34	Conductivity	µs/cm	In situ	Quarterly	0	<i>Not scheduled for sampling during sampling period</i>
	pH	pH	In situ		0	
	SWL	mbtoc	In situ		0	
	Bicarbonate	mg/L	Lab Analysis		0	
	Calcium	mg/L	Lab Analysis		0	
	Carbonate	mg/L	Lab Analysis		0	
	Chloride	mg/L	Lab Analysis		0	
	Magnesium	mg/L	Lab Analysis		0	
	Potassium	mg/L	Lab Analysis		0	
	Sodium	mg/L	Lab Analysis		0	
	Sulfate	mg/L	Lab Analysis		0	
35	Conductivity	µs/cm	In situ	Quarterly	0	<i>Not scheduled for sampling during sampling period</i>
	pH	pH	In situ		0	
	SWL	mbtoc	In situ		0	
	Bicarbonate	mg/L	Lab Analysis		0	
	Calcium	mg/L	Lab Analysis		0	



	Carbonate	mg/L	Lab Analysis		0	
	Chloride	mg/L	Lab Analysis		0	
	Magnesium	mg/L	Lab Analysis		0	
	Potassium	mg/L	Lab Analysis		0	
	Sodium	mg/L	Lab Analysis		0	
	Sulfate	mg/L	Lab Analysis		0	

Table 2 - Pollutant Limits Apply (Water)

EPL ID	Pollutant	Units of Measure	Sample Method	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 (Mine Site Sample ID)
11	TSS	mg/L	Lab Analysis	Upon discharge	0	<i>No discharge occurred during sampling period</i>					50	n/a	SD4
	Oil & Grease	mg/L	Lab Analysis		0						10	n/a	
	pH	pH	In situ		0						6.5-8.5	n/a	
13	TSS	mg/L	Lab Analysis	Upon discharge	0	<i>No discharge occurred during sampling period</i>					50	n/a	SD2
	Oil & Grease	mg/L	Lab Analysis		0						10	n/a	
	pH	pH	In situ		0						6.5-8.5	n/a	
18	TSS	mg/L	Lab Analysis	Upon discharge	0	<i>No discharge occurred during sampling period</i>					50	n/a	SD7
	Oil & Grease	mg/L	Lab Analysis		0						10	n/a	
	pH	pH	In situ		0						6.5-8.5	n/a	
24	TDS	mg/L	Lab Analysis	Upon discharge	0	<i>Namoi discharge point – Not constructed or currently utilised.</i>					350	n/a	NR1
	pH	pH	In situ		0						6.5-8.5	n/a	
27	TSS	mg/L	Lab Analysis	Upon discharge	0	<i>No discharge occurred during reporting period</i>					50	n/a	SD8
	Oil & Grease	mg/L	Lab Analysis		0						10	n/a	
	pH	pH	In situ		0						6.5-8.5	n/a	



Table 3 – Quarterly Attended Noise Monitoring results summary table

Not scheduled for monitoring during reporting period. Next scheduled monitoring period is for Quarter 3, September 2023.

EPL ID	Date	Measured Levels – dB(A)	Limit(s)	Measurement Periods	Weather Compliant Conditions (D/E/N)			Compliant (Yes/No)	Date Obtained			
		Leq 15min Day	Leq 15min Evening	Leq 15min Night	LA1 (1 min) Night							
N5						<u>Day, Evening & Night:</u> 35 <u>Night</u> <u>LA1 (1 min):</u> 45	Day – 1.5 hrs					
							Evening – 0.5 hrs					
								Night – 1 hr				
N6						<u>Day, Evening & Night:</u> 35 <u>Night</u> <u>LA1 (1 min):</u> 45	Day – 1.5 hrs					
							Evening – 0.5 hrs					
								Night – 1 hr				
N8						<u>Day, Evening & Night:</u> 35 <u>Night</u> <u>LA1 (1 min):</u> 45	Day – 1.5 hrs					
							Evening – 0.5 hrs					
								Night – 1 hr				
N9						<u>Day, Evening & Night:</u> 35 <u>Night</u> <u>LA1 (1 min):</u> 45	Day – 1.5 hrs					
							Evening – 0.5 hrs					
								Night – 1 hr				

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 2023

Obtained Date: 25/08/2023

Publication Date: 14/09/2023

Table 1 – No Pollutant Limits Apply

EPL	Pollutant	Units of Measure	Sample Method	Monitoring Frequency	No. of Samples for the Month	Dates Sampled	Date Obtained	Min Value	Mean Value	Median Value	Max or Only Value
ND3	Deposited Matter	g/m ² /month	Lab Analysis	Once a month (min. 4 weeks)	1	11/08/2023	25/08/2023	NA	NA	NA	0.8
11	Conductivity	µs/cm	In situ	Upon discharge (within 12 hours)	<i>No discharge occurred during sampling period (SD4)</i>						
	TOC	mg/L	Lab Analysis								
13	Conductivity	µs/cm	In situ	Upon discharge (within 12 hours)	<i>No discharge occurred during sampling period (SD2)</i>						
	TOC	mg/L	Lab Analysis								
14	Conductivity	µs/cm	In situ	In the event of flow during the quarter & after each wet weather discharge from points 11, 13, 18,27	<i>No flow events and/or mine discharge occurred during sampling period (KC1US)</i>						
	TOC	mg/L	Lab Analysis								
	Oil & Grease	mg/L	Lab Analysis								
	pH	pH	In situ								
15	TSS	mg/L	Lab Analysis	In the event of flow during the quarter & after each wet weather discharge from points 11, 13, 18,27	<i>No flow events and/or mine discharge occurred during sampling period (KC1DS)</i>						
	Conductivity	µs/cm	In situ								
	TOC	mg/L	Lab Analysis								
	Oil & Grease	mg/L	Lab Analysis								
	pH	pH	In situ								

16	Conductivity	µs/cm	In situ	In the event of flow during the quarter & after each wet weather discharge from points 11, 13, 18,27	<i>No flow events and/or mine discharge occurred during sampling period (KC2US)</i>
	TOC	mg/L	Lab Analysis		
	Oil & Grease	mg/L	Lab Analysis		
	pH	pH	In situ		
	TSS	mg/L	Lab Analysis		
17	Conductivity	µs/cm	In situ	In the event of flow during the quarter & after each wet weather discharge from points 11, 13, 18,27	<i>No flow events and/or mine discharge occurred during sampling period (KC2DS)</i>
	TOC	mg/L	Lab Analysis		
	Oil & Grease	mg/L	Lab Analysis		
	pH	pH	In situ		
	TSS	mg/L	Lab Analysis		
18	Conductivity	µs/cm	In Situ	Upon discharge (within 12 hours)	<i>No discharge occurred during sampling period (SD7)</i>
	TOC	mg/L	Lab Analysis		
19	Conductivity	µs/cm	In situ	In the event of flow during the quarter & after each wet weather discharge from points 11, 13, 18,27	<i>No flow events and/or mine discharge occurred during sampling period (KCUS)</i>
	TOC	mg/L	Lab Analysis		
	Oil & Grease	mg/L	Lab Analysis		
	pH	pH	In situ		
	TSS	mg/L	Lab Analysis		
20	Conductivity	µs/cm	In situ	In the event of flow during the quarter & after each wet weather discharge	<i>No flow events and/or mine discharge occurred during sampling period (KCDS)</i>
	TOC	mg/L	Lab Analysis		
	Oil & Grease	mg/L	Lab Analysis		
	pH	pH	In situ		

	TSS	mg/L	Lab Analysis	from points 11, 13, 18,27		
21	Conductivity	µs/cm	In situ	In the event of flow during the quarter & after each wet weather discharge from points 11, 13, 18,27	<i>No flow events and/or mine discharge occurred during sampling period (PCa)</i>	
	TOC	mg/L	Lab Analysis			
	Oil & Grease	mg/L	Lab Analysis			
	pH	pH	In situ			
	TSS	mg/L	Lab Analysis			
22	Conductivity	µs/cm	In situ	In the event of flow during the quarter & after each wet weather discharge from points 11, 13, 18,27	<i>No flow events and/or mine discharge occurred during sampling period (PC1)</i>	
	TOC	mg/L	Lab Analysis			
	Oil & Grease	mg/L	Lab Analysis			
	pH	pH	In situ			
	TSS	mg/L	Lab Analysis			
24	pH	pH	In situ	Upon Discharge (within 4 hrs)	<i>Namoi discharge point – Not constructed or currently utilised (NR1).</i>	
	TDS	mg/L	Lab Analysis			
25	pH	pH	In situ	Upon Discharge (within 4 hrs)	<i>Namoi discharge point – Not constructed or currently utilised (NRUS).</i>	
	TDS	mg/L	Lab Analysis			
26	pH	pH	In situ	Upon Discharge (within 4 hrs)	<i>Namoi discharge point – Not constructed or currently utilised (NRDS).</i>	
	TDS	mg/L	Lab Analysis			
28	Conductivity	µs/cm	In situ	Quarterly	0	<i>Not scheduled for sampling during sampling period</i>
	pH	pH	In situ		0	
	SWL	mbtoc	In situ		0	
	Bicarbonate	mg/L	Lab Analysis		0	

	Calcium	mg/L	Lab Analysis		0	
	Carbonate	mg/L	Lab Analysis		0	
	Chloride	mg/L	Lab Analysis		0	
	Magnesium	mg/L	Lab Analysis		0	
	Potassium	mg/L	Lab Analysis		0	
	Sodium	mg/L	Lab Analysis		0	
	Sulfate	mg/L	Lab Analysis		0	
29	Conductivity	µs/cm	In situ	Quarterly	0	<i>Not scheduled for sampling during sampling period</i>
	pH	pH	In situ		0	
	SWL	mbtoc	In situ		0	
	Bicarbonate	mg/L	Lab Analysis		0	
	Calcium	mg/L	Lab Analysis		0	
	Carbonate	mg/L	Lab Analysis		0	
	Chloride	mg/L	Lab Analysis		0	
	Magnesium	mg/L	Lab Analysis		0	
	Potassium	mg/L	Lab Analysis		0	
	Sodium	mg/L	Lab Analysis		0	
	Sulfate	mg/L	Lab Analysis		0	

30	Conductivity	µs/cm	In situ	Quarterly	0	<i>Not scheduled for sampling during sampling period</i>
	pH	pH	In situ		0	
	SWL	mbtoc	In situ		0	
	Bicarbonate	mg/L	Lab Analysis		0	
	Calcium	mg/L	Lab Analysis		0	
	Carbonate	mg/L	Lab Analysis		0	
	Chloride	mg/L	Lab Analysis		0	
	Magnesium	mg/L	Lab Analysis		0	
	Potassium	mg/L	Lab Analysis		0	
	Sodium	mg/L	Lab Analysis		0	
	Sulfate	mg/L	Lab Analysis		0	
31	Conductivity	µs/cm	In situ	Quarterly	0	<i>Not scheduled for sampling during sampling period</i>
	pH	pH	In situ		0	
	SWL	mbtoc	In situ		0	
	Bicarbonate	mg/L	Lab Analysis		0	
	Calcium	mg/L	Lab Analysis		0	
	Carbonate	mg/L	Lab Analysis		0	
	Chloride	mg/L	Lab Analysis		0	
	Magnesium	mg/L	Lab Analysis		0	
	Potassium	mg/L	Lab Analysis		0	

	Sodium	mg/L	Lab Analysis		0	
	Sulfate	mg/L	Lab Analysis		0	
32	Conductivity	µs/cm	In situ	Quarterly	0	<i>Not scheduled for sampling during sampling period</i>
	pH	pH	In situ		0	
	SWL	mbtoc	In situ		0	
	Bicarbonate	mg/L	Lab Analysis		0	
	Calcium	mg/L	Lab Analysis		0	
	Carbonate	mg/L	Lab Analysis		0	
	Chloride	mg/L	Lab Analysis		0	
	Magnesium	mg/L	Lab Analysis		0	
	Potassium	mg/L	Lab Analysis		0	
	Sodium	mg/L	Lab Analysis		0	
	Sulfate	mg/L	Lab Analysis		0	
33	Conductivity	µs/cm	In situ	Quarterly	0	<i>Not scheduled for sampling during sampling period</i>
	pH	pH	In situ		0	
	SWL	mbtoc	In situ		0	
	Bicarbonate	mg/L	Lab Analysis		0	
	Calcium	mg/L	Lab Analysis		0	
	Carbonate	mg/L	Lab Analysis		0	
	Chloride	mg/L	Lab Analysis		0	

	Magnesium	mg/L	Lab Analysis		0	
	Potassium	mg/L	Lab Analysis		0	
	Sodium	mg/L	Lab Analysis		0	
	Sulfate	mg/L	Lab Analysis		0	
34	Conductivity	µs/cm	In situ	Quarterly	0	<i>Not scheduled for sampling during sampling period</i>
	pH	pH	In situ		0	
	SWL	mbtoc	In situ		0	
	Bicarbonate	mg/L	Lab Analysis		0	
	Calcium	mg/L	Lab Analysis		0	
	Carbonate	mg/L	Lab Analysis		0	
	Chloride	mg/L	Lab Analysis		0	
	Magnesium	mg/L	Lab Analysis		0	
	Potassium	mg/L	Lab Analysis		0	
	Sodium	mg/L	Lab Analysis		0	
	Sulfate	mg/L	Lab Analysis		0	
35	Conductivity	µs/cm	In situ	Quarterly	0	<i>Not scheduled for sampling during sampling period</i>
	pH	pH	In situ		0	
	SWL	mbtoc	In situ		0	
	Bicarbonate	mg/L	Lab Analysis		0	
	Calcium	mg/L	Lab Analysis		0	



	Carbonate	mg/L	Lab Analysis		0	
	Chloride	mg/L	Lab Analysis		0	
	Magnesium	mg/L	Lab Analysis		0	
	Potassium	mg/L	Lab Analysis		0	
	Sodium	mg/L	Lab Analysis		0	
	Sulfate	mg/L	Lab Analysis		0	

Table 2 - Pollutant Limits Apply (Water)

EPL ID	Pollutant	Units of Measure	Sample Method	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 (Mine Site Sample ID)
11	TSS	mg/L	Lab Analysis	Upon discharge	0	<i>No discharge occurred during sampling period</i>					50	n/a	SD4
	Oil & Grease	mg/L	Lab Analysis		0						10	n/a	
	pH	pH	In situ		0						6.5-8.5	n/a	
13	TSS	mg/L	Lab Analysis	Upon discharge	0	<i>No discharge occurred during sampling period</i>					50	n/a	SD2
	Oil & Grease	mg/L	Lab Analysis		0						10	n/a	
	pH	pH	In situ		0						6.5-8.5	n/a	
18	TSS	mg/L	Lab Analysis	Upon discharge	0	<i>No discharge occurred during sampling period</i>					50	n/a	SD7
	Oil & Grease	mg/L	Lab Analysis		0						10	n/a	
	pH	pH	In situ		0						6.5-8.5	n/a	
24	TDS	mg/L	Lab Analysis	Upon discharge	0	<i>Namoi discharge point – Not constructed or currently utilised.</i>					350	n/a	NR1
	pH	pH	In situ		0						6.5-8.5	n/a	
27	TSS	mg/L	Lab Analysis	Upon discharge	0	<i>No discharge occurred during reporting period</i>					50	n/a	SD8
	Oil & Grease	mg/L	Lab Analysis		0						10	n/a	
	pH	pH	In situ		0						6.5-8.5	n/a	



Table 3 – Quarterly Attended Noise Monitoring results summary table

Not scheduled for monitoring during reporting period. Next scheduled monitoring period is for Quarter 3, September 2023.

EPL ID	Date	Measured Levels – dB(A)	Limit(s)	Measurement Periods	Weather Compliant Conditions (D/E/N)			Compliant (Yes/No)	Date Obtained			
		Leq 15min Day	Leq 15min Evening	Leq 15min Night	LA1 (1 min) Night							
N5						<u>Day, Evening & Night:</u> 35 <u>Night</u> <u>LA1 (1 min):</u> 45	Day – 1.5 hrs					
							Evening – 0.5 hrs					
								Night – 1 hr				
N6						<u>Day, Evening & Night:</u> 35 <u>Night</u> <u>LA1 (1 min):</u> 45	Day – 1.5 hrs					
							Evening – 0.5 hrs					
								Night – 1 hr				
N8						<u>Day, Evening & Night:</u> 35 <u>Night</u> <u>LA1 (1 min):</u> 45	Day – 1.5 hrs					
							Evening – 0.5 hrs					
								Night – 1 hr				
N9						<u>Day, Evening & Night:</u> 35 <u>Night</u> <u>LA1 (1 min):</u> 45	Day – 1.5 hrs					
							Evening – 0.5 hrs					
								Night – 1 hr				

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 2023

Obtained Date: 25/09/2023 **Noise results and deposited dust results not received for September at the time of publication but added following submission

Publication Date: 13/10/2023

Table 1 – No Pollutant Limits Apply

EPL	Pollutant	Units of Measure	Sample Method	Monitoring Frequency	No. of Samples for the Month	Dates Sampled	Date Obtained	Min Value	Mean Value	Median Value	Max or Only Value
ND3	Deposited Matter	g/m ² /month	Lab Analysis	Once a month (min. 4 weeks)	1	14/09/2023	25/10/2023	NA	NA	NA	0.5
11	Conductivity	µs/cm	In situ	Upon discharge (within 12 hours)	<i>No discharge occurred during sampling period (SD4)</i>						
	TOC	mg/L	Lab Analysis								
13	Conductivity	µs/cm	In situ	Upon discharge (within 12 hours)	<i>No discharge occurred during sampling period (SD2)</i>						
	TOC	mg/L	Lab Analysis								
14	Conductivity	µs/cm	In situ	In the event of flow during the quarter & after each wet weather discharge from points 11, 13, 18,27	0	Ambient Flow 27/09/23 (quarterly check completed, no flow)	NA	NA	NA	NA	
	TOC	mg/L	Lab Analysis		0		NA	NA	NA	NA	
	Oil & Grease	mg/L	Lab Analysis		0		NA	NA	NA	NA	
	pH	pH	In situ		0		NA	NA	NA	NA	
	TSS	mg/L	Lab Analysis		0		NA	NA	NA	NA	
15	Conductivity	µs/cm	In situ	In the event of flow during the quarter & after each wet weather discharge from points 11, 13, 18,27	0	Ambient Flow 27/09/23 (quarterly check completed, no flow)	NA	NA	NA	NA	
	TOC	mg/L	Lab Analysis		0		NA	NA	NA	NA	
	Oil & Grease	mg/L	Lab Analysis		0		NA	NA	NA	NA	
	pH	pH	In situ		0		NA	NA	NA	NA	
	TSS	mg/L	Lab Analysis		0		NA	NA	NA	NA	

16	Conductivity	µs/cm	In situ	In the event of flow during the quarter & after each wet weather discharge from points 11, 13, 18,27	0	Ambient Flow 27/09/23 (quarterly check completed, no flow)	NA	NA	NA	NA
	TOC	mg/L	Lab Analysis		0		NA	NA	NA	NA
	Oil & Grease	mg/L	Lab Analysis		0		NA	NA	NA	NA
	pH	pH	In situ		0		NA	NA	NA	NA
	TSS	mg/L	Lab Analysis		0		NA	NA	NA	NA
17	Conductivity	µs/cm	In situ	In the event of flow during the quarter & after each wet weather discharge from points 11, 13, 18,27	0	Ambient Flow 27/09/23 (quarterly check completed, no flow)	NA	NA	NA	NA
	TOC	mg/L	Lab Analysis		0		NA	NA	NA	NA
	Oil & Grease	mg/L	Lab Analysis		0		NA	NA	NA	NA
	pH	pH	In situ		0		NA	NA	NA	NA
	TSS	mg/L	Lab Analysis		0		NA	NA	NA	NA
18	Conductivity	µs/cm	In Situ	Upon discharge (within 12 hours)	<i>No discharge occurred during sampling period (SD7)</i>					
	TOC	mg/L	Lab Analysis							
19	Conductivity	µs/cm	In situ	In the event of flow during the quarter & after each wet weather discharge from points 11, 13, 18,27	0	Ambient Flow 27/09/23 (quarterly check completed, no flow)	NA	NA	NA	NA
	TOC	mg/L	Lab Analysis		0		NA	NA	NA	NA
	Oil & Grease	mg/L	Lab Analysis		0		NA	NA	NA	NA
	pH	pH	In situ		0		NA	NA	NA	NA
	TSS	mg/L	Lab Analysis		0		NA	NA	NA	NA
20	Conductivity	µs/cm	In situ	In the event of flow during the quarter & after each wet weather discharge	0	Ambient Flow 27/09/23 (quarterly check completed, no flow)	NA	NA	NA	NA
	TOC	mg/L	Lab Analysis		0		NA	NA	NA	NA
	Oil & Grease	mg/L	Lab Analysis		0		NA	NA	NA	NA
	pH	pH	In situ		0		NA	NA	NA	NA

	TSS	mg/L	Lab Analysis	from points 11, 13, 18,27	0		NA	NA	NA	NA
21	Conductivity	µs/cm	In situ	In the event of flow during the quarter & after each wet weather discharge from points 11, 13, 18,27	0	Ambient Flow 27/09/23 (quarterly check completed, no flow)	NA	NA	NA	NA
	TOC	mg/L	Lab Analysis		0		NA	NA	NA	NA
	Oil & Grease	mg/L	Lab Analysis		0		NA	NA	NA	NA
	pH	pH	In situ		0		NA	NA	NA	NA
	TSS	mg/L	Lab Analysis		0		NA	NA	NA	NA
22	Conductivity	µs/cm	In situ	In the event of flow during the quarter & after each wet weather discharge from points 11, 13, 18,27	0	Ambient Flow 27/09/23 (quarterly check completed, no flow)	NA	NA	NA	NA
	TOC	mg/L	Lab Analysis		0		NA	NA	NA	NA
	Oil & Grease	mg/L	Lab Analysis		0		NA	NA	NA	NA
	pH	pH	In situ		0		NA	NA	NA	NA
	TSS	mg/L	Lab Analysis		0		NA	NA	NA	NA
24	pH	pH	In situ	Upon Discharge (within 4 hrs)	<i>Namoi discharge point – Not constructed or currently utilised (NR1).</i>					
	TDS	mg/L	Lab Analysis							
25	pH	pH	In situ	Upon Discharge (within 4 hrs)	<i>Namoi discharge point – Not constructed or currently utilised (NRUS).</i>					
	TDS	mg/L	Lab Analysis							
26	pH	pH	In situ	Upon Discharge (within 4 hrs)	<i>Namoi discharge point – Not constructed or currently utilised (NRDS).</i>					
	TDS	mg/L	Lab Analysis							
28	Conductivity	µs/cm	In situ	Quarterly	0	<i>Bore was dry during sampling period</i>				
	pH	pH	In situ		0					
	SWL	mbtoc	In situ		0					
	Bicarbonate	mg/L	Lab Analysis		0					

	Calcium	mg/L	Lab Analysis		0						
	Carbonate	mg/L	Lab Analysis		0						
	Chloride	mg/L	Lab Analysis		0						
	Magnesium	mg/L	Lab Analysis		0						
	Potassium	mg/L	Lab Analysis		0						
	Sodium	mg/L	Lab Analysis		0						
	Sulfate	mg/L	Lab Analysis		0						
29 (P29)	Conductivity	µs/cm	In situ	Quarterly	1	26/09/2023	11/10/2023	NA	NA	NA	11650
	pH	pH	In situ		1	26/09/2023	11/10/2023	NA	NA	NA	6.77
	SWL	mbtoc	In situ		1	26/09/2023	11/10/2023	NA	NA	NA	4.33
	Bicarbonate	mg/L	Lab Analysis		1	26/09/2023	11/10/2023	NA	NA	NA	670
	Calcium	mg/L	Lab Analysis		1	26/09/2023	11/10/2023	NA	NA	NA	135
	Carbonate	mg/L	Lab Analysis		1	26/09/2023	11/10/2023	NA	NA	NA	<1
	Chloride	mg/L	Lab Analysis		1	26/09/2023	11/10/2023	NA	NA	NA	5670
	Magnesium	mg/L	Lab Analysis		1	26/09/2023	11/10/2023	NA	NA	NA	306
	Potassium	mg/L	Lab Analysis		1	26/09/2023	11/10/2023	NA	NA	NA	8
	Sodium	mg/L	Lab Analysis		1	26/09/2023	11/10/2023	NA	NA	NA	3170
	Sulfate	mg/L	Lab Analysis		1	26/09/2023	11/10/2023	NA	NA	NA	650

30 (P30)	Conductivity	µs/cm	In situ	Quarterly	1	26/09/2023	11/10/2023	NA	NA	NA	13880
	pH	pH	In situ		1	26/09/2023	11/10/2023	NA	NA	NA	6.64
	SWL	mbtoc	In situ		1	26/09/2023	11/10/2023	NA	NA	NA	12.32
	Bicarbonate	mg/L	Lab Analysis		1	26/09/2023	11/10/2023	NA	NA	NA	682
	Calcium	mg/L	Lab Analysis		1	26/09/2023	11/10/2023	NA	NA	NA	148
	Carbonate	mg/L	Lab Analysis		1	26/09/2023	11/10/2023	NA	NA	NA	<1
	Chloride	mg/L	Lab Analysis		1	26/09/2023	11/10/2023	NA	NA	NA	5430
	Magnesium	mg/L	Lab Analysis		1	26/09/2023	11/10/2023	NA	NA	NA	376
	Potassium	mg/L	Lab Analysis		1	26/09/2023	11/10/2023	NA	NA	NA	18
	Sodium	mg/L	Lab Analysis		1	26/09/2023	11/10/2023	NA	NA	NA	3270
	Sulfate	mg/L	Lab Analysis		1	26/09/2023	11/10/2023	NA	NA	NA	1250
31 (P31)	Conductivity	µs/cm	In situ	Quarterly	1	26/09/2023	11/10/2023	NA	NA	NA	6240
	pH	pH	In situ		1	26/09/2023	11/10/2023	NA	NA	NA	6.24
	SWL	mbtoc	In situ		1	26/09/2023	11/10/2023	NA	NA	NA	16.57
	Bicarbonate	mg/L	Lab Analysis		1	26/09/2023	11/10/2023	NA	NA	NA	872
	Calcium	mg/L	Lab Analysis		1	26/09/2023	11/10/2023	NA	NA	NA	96
	Carbonate	mg/L	Lab Analysis		1	26/09/2023	11/10/2023	NA	NA	NA	<1
	Chloride	mg/L	Lab Analysis		1	26/09/2023	11/10/2023	NA	NA	NA	1680
	Magnesium	mg/L	Lab Analysis		1	26/09/2023	11/10/2023	NA	NA	NA	170
	Potassium	mg/L	Lab Analysis		1	26/09/2023	11/10/2023	NA	NA	NA	13

	Sodium	mg/L	Lab Analysis		1	26/09/2023	11/10/2023	NA	NA	NA	1210
	Sulfate	mg/L	Lab Analysis		1	26/09/2023	11/10/2023	NA	NA	NA	345
32 (P32)	Conductivity	µs/cm	In situ	Quarterly	1	26/09/2023	11/10/2023	NA	NA	NA	1770
	pH	pH	In situ		1	26/09/2023	11/10/2023	NA	NA	NA	7.89
	SWL	mbtoc	In situ		1	26/09/2023	11/10/2023	NA	NA	NA	8.92
	Bicarbonate	mg/L	Lab Analysis		1	26/09/2023	11/10/2023	NA	NA	NA	865
	Calcium	mg/L	Lab Analysis		1	26/09/2023	11/10/2023	NA	NA	NA	1
	Carbonate	mg/L	Lab Analysis		1	26/09/2023	11/10/2023	NA	NA	NA	59
	Chloride	mg/L	Lab Analysis		1	26/09/2023	11/10/2023	NA	NA	NA	59
	Magnesium	mg/L	Lab Analysis		1	26/09/2023	11/10/2023	NA	NA	NA	5
	Potassium	mg/L	Lab Analysis		1	26/09/2023	11/10/2023	NA	NA	NA	<1
	Sodium	mg/L	Lab Analysis		1	26/09/2023	11/10/2023	NA	NA	NA	484
	Sulfate	mg/L	Lab Analysis		1	26/09/2023	11/10/2023	NA	NA	NA	64
33 (P33)	Conductivity	µs/cm	In situ	Quarterly	0	<i>Bore was dry during sampling period</i>					
	pH	pH	In situ		0						
	SWL	mbtoc	In situ		0						
	Bicarbonate	mg/L	Lab Analysis		0						
	Calcium	mg/L	Lab Analysis		0						
	Carbonate	mg/L	Lab Analysis		0						
	Chloride	mg/L	Lab Analysis		0						

	Magnesium	mg/L	Lab Analysis		0	<i>Bore was dry during sampling period</i>											
	Potassium	mg/L	Lab Analysis		0												
	Sodium	mg/L	Lab Analysis		0												
	Sulfate	mg/L	Lab Analysis		0												
34 (P34)	Conductivity	µs/cm	In situ	Quarterly	0							<i>Bore was dry during sampling period</i>					
	pH	pH	In situ		0												
	SWL	mbtoc	In situ		0												
	Bicarbonate	mg/L	Lab Analysis		0												
	Calcium	mg/L	Lab Analysis		0												
	Carbonate	mg/L	Lab Analysis		0												
	Chloride	mg/L	Lab Analysis		0												
	Magnesium	mg/L	Lab Analysis		0												
	Potassium	mg/L	Lab Analysis		0												
	Sodium	mg/L	Lab Analysis		0												
Sulfate	mg/L	Lab Analysis	0														
35 (P58)	Conductivity	µs/cm	In situ	Quarterly	1	26/09/2023	11/10/2023	NA	NA	NA	10260						
	pH	pH	In situ		1	26/09/2023	11/10/2023	NA	NA	NA	6.5						
	SWL	mbtoc	In situ		1	26/09/2023	11/10/2023	NA	NA	NA	20.33						
	Bicarbonate	mg/L	Lab Analysis		1	26/09/2023	11/10/2023	NA	NA	NA	5110						
	Calcium	mg/L	Lab Analysis		1	26/09/2023	11/10/2023	NA	NA	NA	36						

	Carbonate	mg/L	Lab Analysis		1	26/09/2023	11/10/2023	NA	NA	NA	<1
	Chloride	mg/L	Lab Analysis		1	26/09/2023	11/10/2023	NA	NA	NA	1500
	Magnesium	mg/L	Lab Analysis		1	26/09/2023	11/10/2023	NA	NA	NA	71
	Potassium	mg/L	Lab Analysis		1	26/09/2023	11/10/2023	NA	NA	NA	80
	Sodium	mg/L	Lab Analysis		1	26/09/2023	11/10/2023	NA	NA	NA	3000
	Sulfate	mg/L	Lab Analysis		1	26/09/2023	11/10/2023	NA	NA	NA	129
36 (P83)	Conductivity	µs/cm	In situ	Monthly	0	<i>Bore was dry during sampling period</i>					
	pH	pH	In situ		0						
	SWL	mbtoc	In situ		0						
	Bicarbonate	mg/L	Lab Analysis		0						
	Calcium	mg/L	Lab Analysis		0						
	Carbonate	mg/L	Lab Analysis		0						
	Chloride	mg/L	Lab Analysis		0						
	Magnesium	mg/L	Lab Analysis		0						
	Potassium	mg/L	Lab Analysis		0						
	Sodium	mg/L	Lab Analysis		0						
	Sulfate	mg/L	Lab Analysis		0						
37 (P84)	Conductivity	µs/cm	In situ	Monthly	1	21/09/2023	11/10/2023	NA	NA	NA	11510
	pH	pH	In situ		1	21/09/2023	11/10/2023	NA	NA	NA	6067
	SWL	mbtoc	In situ		1	21/09/2023	11/10/2023	NA	NA	NA	13.65

	Bicarbonate	mg/L	Lab Analysis		1	21/09/2023	11/10/2023	NA	NA	NA	2530
	Calcium	mg/L	Lab Analysis		1	21/09/2023	11/10/2023	NA	NA	NA	90
	Carbonate	mg/L	Lab Analysis		1	21/09/2023	11/10/2023	NA	NA	NA	<1
	Chloride	mg/L	Lab Analysis		1	21/09/2023	11/10/2023	NA	NA	NA	5710
	Magnesium	mg/L	Lab Analysis		1	21/09/2023	11/10/2023	NA	NA	NA	392
	Potassium	mg/L	Lab Analysis		1	21/09/2023	11/10/2023	NA	NA	NA	36
	Sodium	mg/L	Lab Analysis		1	21/09/2023	11/10/2023	NA	NA	NA	4600
	Sulfate	mg/L	Lab Analysis		1	21/09/2023	11/10/2023	NA	NA	NA	1140
38 (P85)	Conductivity	µs/cm	In situ	Monthly	0	<i>Bore was dry during sampling period</i>					
	pH	pH	In situ		0						
	SWL	mbtoc	In situ		0						
	Bicarbonate	mg/L	Lab Analysis		0						
	Calcium	mg/L	Lab Analysis		0						
	Carbonate	mg/L	Lab Analysis		0						
	Chloride	mg/L	Lab Analysis		0						
	Magnesium	mg/L	Lab Analysis		0						
	Potassium	mg/L	Lab Analysis		0						
	Sodium	mg/L	Lab Analysis		0						
	Sulfate	mg/L	Lab Analysis		0						

39 (P88)	Conductivity	µs/cm	In situ	Monthly	0	<i>Bore was dry during sampling period</i>
	pH	pH	In situ		0	
	SWL	mbtoc	In situ		0	
	Bicarbonate	mg/L	Lab Analysis		0	
	Calcium	mg/L	Lab Analysis		0	
	Carbonate	mg/L	Lab Analysis		0	
	Chloride	mg/L	Lab Analysis		0	
	Magnesium	mg/L	Lab Analysis		0	
	Potassium	mg/L	Lab Analysis		0	
	Sodium	mg/L	Lab Analysis		0	
	Sulfate	mg/L	Lab Analysis		0	
40 (P89)	Conductivity	µs/cm	In situ	Monthly	0	<i>Bore was dry during sampling period</i>
	pH	pH	In situ		0	
	SWL	mbtoc	In situ		0	
	Bicarbonate	mg/L	Lab Analysis		0	
	Calcium	mg/L	Lab Analysis		0	
	Carbonate	mg/L	Lab Analysis		0	
	Chloride	mg/L	Lab Analysis		0	
	Magnesium	mg/L	Lab Analysis		0	
	Potassium	mg/L	Lab Analysis		0	



	Sodium	mg/L	Lab Analysis		0	
	Sulfate	mg/L	Lab Analysis		0	

Table 2 - Pollutant Limits Apply (Water)

EPL ID	Pollutant	Units of Measure	Sample Method	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 (Mine Site Sample ID)
11	TSS	mg/L	Lab Analysis	Upon discharge	0	<i>No discharge occurred during sampling period</i>					50	No	SD4
	Oil & Grease	mg/L	Lab Analysis		0						10	No	
	pH	pH	In situ		0						6.5-8.5	No	
13	TSS	mg/L	Lab Analysis	Upon discharge	0	<i>No discharge occurred during sampling period</i>					50	No	SD2
	Oil & Grease	mg/L	Lab Analysis		0						10	No	
	pH	pH	In situ		0						6.5-8.5	No	
18	TSS	mg/L	Lab Analysis	Upon discharge	0	<i>No discharge occurred during sampling period</i>					50	No	SD7
	Oil & Grease	mg/L	Lab Analysis		0						10	No	
	pH	pH	In situ		0						6.5-8.5	No	
24	TDS	mg/L	Lab Analysis	Upon discharge	0	<i>Namoi discharge point – Not constructed or currently utilised.</i>					350	N/A	NR1
	pH	pH	In situ		0						6.5-8.5	N/A	
27	TSS	mg/L	Lab Analysis	Upon discharge	0	<i>No discharge occurred during reporting period</i>					50	N/A	SD8
	Oil & Grease	mg/L	Lab Analysis		0						10	N/A	
	pH	pH	In situ		0						6.5-8.5	N/A	

Table 3 – Quarterly Attended Noise Monitoring results summary table

EPL ID	Date	Measured Levels – dB(A)	Limit(s)	Measurement Periods	Weather Compliant Conditions (D/E/N)			Compliant (Yes/No)	Date Obtained			
		Leq 15min Day	Leq 15min Evening	Leq 15min Night	LA1 (1 min) Night							
N5 ¹	11/09/2023 ³	I/A	31	I/A	I/A	<u>Day, Evening & Night:</u> 35 <u>Night</u> <u>LA1 (1 min):</u> 45	Day – 1.5 hrs	Y	Y	Y	Y	16/10/2023
	12/09/2023 ³	38	28	35	45		Evening – 0.5 hrs	Y	Y ⁴	Y ⁴	Y ⁵	
	13/09/2023 ³	I/A	I/A	30	37		Night – 1 hr	Y	N	N	Y	
N6	11/09/2023 ³	28	<25	27	30	<u>Day, Evening & Night:</u> 35 <u>Night</u> <u>LA1 (1 min):</u> 45	Day – 1.5 hrs	Y	N	Y	Y	
	12/09/2023 ³	N/M	I/A	27	32		Evening – 0.5 hrs	Y	Y ⁴	Y ⁴	Y	
	13/09/2023 ³	29	I/A	26	32		Night – 1 hr	Y	N	N	Y	
N8 ¹	11/09/2023 ³	23	29	<25	25	<u>Day, Evening & Night:</u> 35 <u>Night</u> <u>LA1 (1 min):</u> 45	Day – 1.5 hrs	Y	Y	Y	Y	
	12/09/2023 ³	27	26	35	49		Evening – 0.5 hrs	Y	Y ⁴	Y ⁴	Y ⁵	
	13/09/2023 ³	I/A	26	N/M	N/M		Night – 1 hr	N	N	N	Y	
N9 ¹	11/09/2023 ³	24	I/A	22	23	<u>Day, Evening & Night:</u> 35 <u>Night</u> <u>LA1 (1 min):</u> 45	Day – 1.5 hrs	Y	N	Y	Y	
	12/09/2023 ³	31	I/A	30	33		Evening – 0.5 hrs	Y	Y ⁴	Y ⁴	Y	
	13/09/2023 ³	I/A	I/A	22	27		Night – 1 hr	Y	N	N	Y	

I/A = Inaudible, N/M = Not Measurable

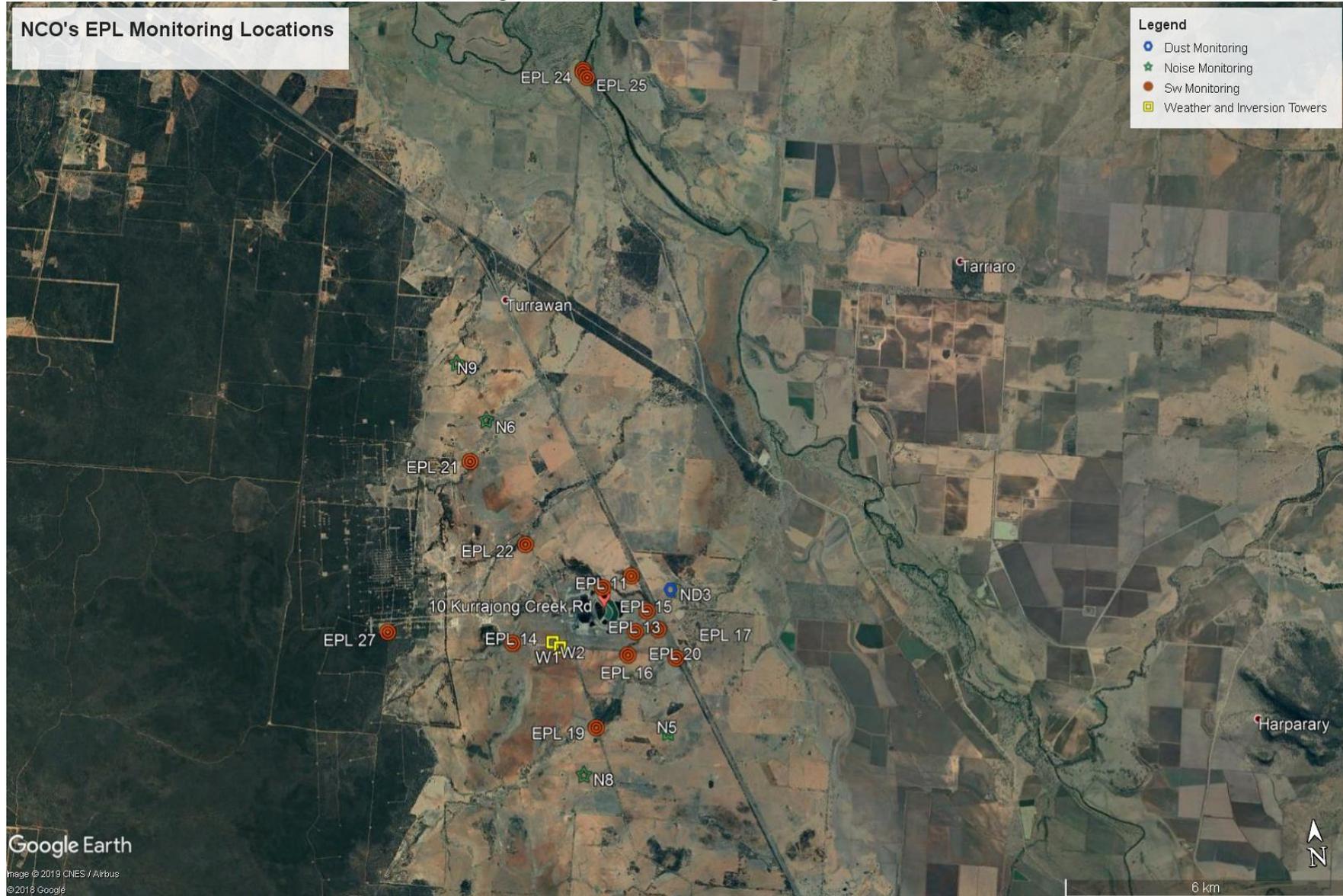
Note 1: Property is owned by Narrabri Coal Operations. Noise limits contained in Conditions 1-3, Schedule 4 of PA 08_0144 Mod 2 and the identical limits contained in condition L3 of Environment Protection Licence No 12789 are not applicable.

Note 2: Evening and Night monitoring conducted on this date, Day monitoring conducted during the following day period.

Note 3: Due to technical issues at inversion monitoring location W2, weather information at this location was not recorded during this time. Field observations were indicative of noise enhancing conditions likely to be present during this period.

Note 4: The Noise Criteria for EPL Monitoring Locations N5 (Oakleigh) and N8 (Haylin View) does not apply as these properties are owned by Narrabri Coal and are therefore not privately owned residences.

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 2023

Obtained Date: 06/11/2023 *Monthly GW results not received at time of publication

Publication Date: 13/11/2023

Table 1 – No Pollutant Limits Apply

EPL	Pollutant	Units of Measure	Sample Method	Monitoring Frequency	No. of Samples for the Month	Dates Sampled	Date Obtained	Min Value	Mean Value	Median Value	Max or Only Value
ND3	Deposited Matter	g/m ² /month	Lab Analysis	Once a month (min. 4 weeks)	1	18/10/2023	06/11/2023	NA	NA	NA	0.8
11	Conductivity	µs/cm	In situ	Upon discharge (within 12 hours)	<i>No discharge occurred during sampling period (SD4)</i>						
	TOC	mg/L	Lab Analysis								
13	Conductivity	µs/cm	In situ	Upon discharge (within 12 hours)	<i>No discharge occurred during sampling period (SD2)</i>						
	TOC	mg/L	Lab Analysis								
14	Conductivity	µs/cm	In situ	In the event of flow during the quarter & after each wet weather discharge from points 11, 13, 18,27	0	Ambient Flow 5/10/2023 (check completed, no flow)	NA	NA	NA	NA	
	TOC	mg/L	Lab Analysis		0		NA	NA	NA	NA	
	Oil & Grease	mg/L	Lab Analysis		0		NA	NA	NA	NA	
	pH	pH	In situ		0		NA	NA	NA	NA	
	TSS	mg/L	Lab Analysis		0		NA	NA	NA	NA	
15	Conductivity	µs/cm	In situ	In the event of flow during the quarter & after each wet weather discharge from points 11, 13, 18,27	0	Ambient Flow 5/10/2023 (check completed, no flow)	NA	NA	NA	NA	
	TOC	mg/L	Lab Analysis		0		NA	NA	NA	NA	
	Oil & Grease	mg/L	Lab Analysis		0		NA	NA	NA	NA	
	pH	pH	In situ		0		NA	NA	NA	NA	
	TSS	mg/L	Lab Analysis		0		NA	NA	NA	NA	

16	Conductivity	µs/cm	In situ	In the event of flow during the quarter & after each wet weather discharge from points 11, 13, 18,27	0	Ambient Flow 5/10/2023 (check completed, no flow)	NA	NA	NA	NA
	TOC	mg/L	Lab Analysis		0		NA	NA	NA	NA
	Oil & Grease	mg/L	Lab Analysis		0		NA	NA	NA	NA
	pH	pH	In situ		0		NA	NA	NA	NA
	TSS	mg/L	Lab Analysis		0		NA	NA	NA	NA
17	Conductivity	µs/cm	In situ	In the event of flow during the quarter & after each wet weather discharge from points 11, 13, 18,27	0	Ambient Flow 5/10/2023 (check completed, no flow)	NA	NA	NA	NA
	TOC	mg/L	Lab Analysis		0		NA	NA	NA	NA
	Oil & Grease	mg/L	Lab Analysis		0		NA	NA	NA	NA
	pH	pH	In situ		0		NA	NA	NA	NA
	TSS	mg/L	Lab Analysis		0		NA	NA	NA	NA
18	Conductivity	µs/cm	In Situ	Upon discharge (within 12 hours)	<i>No discharge occurred during sampling period (SD7)</i>					
	TOC	mg/L	Lab Analysis							
19	Conductivity	µs/cm	In situ	In the event of flow during the quarter & after each wet weather discharge from points 11, 13, 18,27	0	Ambient Flow 5/10/2023 (check completed, no flow)	NA	NA	NA	NA
	TOC	mg/L	Lab Analysis		0		NA	NA	NA	NA
	Oil & Grease	mg/L	Lab Analysis		0		NA	NA	NA	NA
	pH	pH	In situ		0		NA	NA	NA	NA
	TSS	mg/L	Lab Analysis		0		NA	NA	NA	NA
20	Conductivity	µs/cm	In situ	In the event of flow during the quarter & after each wet weather discharge	0	Ambient Flow 5/10/2023 (check completed, no flow)	NA	NA	NA	NA
	TOC	mg/L	Lab Analysis		0		NA	NA	NA	NA
	Oil & Grease	mg/L	Lab Analysis		0		NA	NA	NA	NA
	pH	pH	In situ		0		NA	NA	NA	NA

	TSS	mg/L	Lab Analysis	from points 11, 13, 18,27	0		NA	NA	NA	NA
21	Conductivity	µs/cm	In situ	In the event of flow during the quarter & after each wet weather discharge from points 11, 13, 18,27	0	Ambient Flow 5/10/2023 (check completed, no flow)	NA	NA	NA	NA
	TOC	mg/L	Lab Analysis		0		NA	NA	NA	NA
	Oil & Grease	mg/L	Lab Analysis		0		NA	NA	NA	NA
	pH	pH	In situ		0		NA	NA	NA	NA
	TSS	mg/L	Lab Analysis		0		NA	NA	NA	NA
22	Conductivity	µs/cm	In situ	In the event of flow during the quarter & after each wet weather discharge from points 11, 13, 18,27	0	Ambient Flow 5/10/2023 (check completed, no flow)	NA	NA	NA	NA
	TOC	mg/L	Lab Analysis		0		NA	NA	NA	NA
	Oil & Grease	mg/L	Lab Analysis		0		NA	NA	NA	NA
	pH	pH	In situ		0		NA	NA	NA	NA
	TSS	mg/L	Lab Analysis		0		NA	NA	NA	NA
24	pH	pH	In situ	Upon Discharge (within 4 hrs)	<i>Namoi discharge point – Not constructed or currently utilised (NR1).</i>					
	TDS	mg/L	Lab Analysis							
25	pH	pH	In situ	Upon Discharge (within 4 hrs)	<i>Namoi discharge point – Not constructed or currently utilised (NRUS).</i>					
	TDS	mg/L	Lab Analysis							
26	pH	pH	In situ	Upon Discharge (within 4 hrs)	<i>Namoi discharge point – Not constructed or currently utilised (NRDS).</i>					
	TDS	mg/L	Lab Analysis							
28	Conductivity	µs/cm	In situ	Quarterly	<i>Not scheduled for sampling during sampling period</i>					
	pH	pH	In situ							
	SWL	mbtoc	In situ							
	Bicarbonate	mg/L	Lab Analysis							

	Calcium	mg/L	Lab Analysis		
	Carbonate	mg/L	Lab Analysis		
	Chloride	mg/L	Lab Analysis		
	Magnesium	mg/L	Lab Analysis		
	Potassium	mg/L	Lab Analysis		
	Sodium	mg/L	Lab Analysis		
	Sulfate	mg/L	Lab Analysis		
29	Conductivity	µs/cm	In situ	Quarterly	<i>Not scheduled for sampling during sampling period</i>
	pH	pH	In situ		
	SWL	mbtoc	In situ		
	Bicarbonate	mg/L	Lab Analysis		
	Calcium	mg/L	Lab Analysis		
	Carbonate	mg/L	Lab Analysis		
	Chloride	mg/L	Lab Analysis		
	Magnesium	mg/L	Lab Analysis		
	Potassium	mg/L	Lab Analysis		
	Sodium	mg/L	Lab Analysis		
	Sulfate	mg/L	Lab Analysis		

30	Conductivity	µs/cm	In situ	Quarterly	<i>Not scheduled for sampling during sampling period</i>
	pH	pH	In situ		
	SWL	mbtoc	In situ		
	Bicarbonate	mg/L	Lab Analysis		
	Calcium	mg/L	Lab Analysis		
	Carbonate	mg/L	Lab Analysis		
	Chloride	mg/L	Lab Analysis		
	Magnesium	mg/L	Lab Analysis		
	Potassium	mg/L	Lab Analysis		
	Sodium	mg/L	Lab Analysis		
	Sulfate	mg/L	Lab Analysis		
31	Conductivity	µs/cm	In situ	Quarterly	<i>Not scheduled for sampling during sampling period</i>
	pH	pH	In situ		
	SWL	mbtoc	In situ		
	Bicarbonate	mg/L	Lab Analysis		
	Calcium	mg/L	Lab Analysis		
	Carbonate	mg/L	Lab Analysis		
	Chloride	mg/L	Lab Analysis		
	Magnesium	mg/L	Lab Analysis		
	Potassium	mg/L	Lab Analysis		

	Sodium	mg/L	Lab Analysis		
	Sulfate	mg/L	Lab Analysis		
32	Conductivity	µs/cm	In situ	Quarterly	<i>Not scheduled for sampling during sampling period</i>
	pH	pH	In situ		
	SWL	mbtoc	In situ		
	Bicarbonate	mg/L	Lab Analysis		
	Calcium	mg/L	Lab Analysis		
	Carbonate	mg/L	Lab Analysis		
	Chloride	mg/L	Lab Analysis		
	Magnesium	mg/L	Lab Analysis		
	Potassium	mg/L	Lab Analysis		
	Sodium	mg/L	Lab Analysis		
	Sulfate	mg/L	Lab Analysis		
33	Conductivity	µs/cm	In situ	Quarterly	<i>Not scheduled for sampling during sampling period</i>
	pH	pH	In situ		
	SWL	mbtoc	In situ		
	Bicarbonate	mg/L	Lab Analysis		
	Calcium	mg/L	Lab Analysis		
	Carbonate	mg/L	Lab Analysis		
	Chloride	mg/L	Lab Analysis		

	Magnesium	mg/L	Lab Analysis		
	Potassium	mg/L	Lab Analysis		
	Sodium	mg/L	Lab Analysis		
	Sulfate	mg/L	Lab Analysis		
34	Conductivity	µs/cm	In situ	Quarterly	<i>Not scheduled for sampling during sampling period</i>
	pH	pH	In situ		
	SWL	mbtoc	In situ		
	Bicarbonate	mg/L	Lab Analysis		
	Calcium	mg/L	Lab Analysis		
	Carbonate	mg/L	Lab Analysis		
	Chloride	mg/L	Lab Analysis		
	Magnesium	mg/L	Lab Analysis		
	Potassium	mg/L	Lab Analysis		
	Sodium	mg/L	Lab Analysis		
	Sulfate	mg/L	Lab Analysis		
35	Conductivity	µs/cm	In situ	Quarterly	<i>Not scheduled for sampling during sampling period</i>
	pH	pH	In situ		
	SWL	mbtoc	In situ		
	Bicarbonate	mg/L	Lab Analysis		
	Calcium	mg/L	Lab Analysis		

	Carbonate	mg/L	Lab Analysis								
	Chloride	mg/L	Lab Analysis								
	Magnesium	mg/L	Lab Analysis								
	Potassium	mg/L	Lab Analysis								
	Sodium	mg/L	Lab Analysis								
	Sulfate	mg/L	Lab Analysis								
36 (P83)	Conductivity	µs/cm	In situ	Monthly	1	<i>Bore was dry during sampling period</i>					
	pH	pH	In situ		1						
	SWL	mbtoc	In situ		1						
	Bicarbonate	mg/L	Lab Analysis		1						
	Calcium	mg/L	Lab Analysis		1						
	Carbonate	mg/L	Lab Analysis		1						
	Chloride	mg/L	Lab Analysis		1						
	Magnesium	mg/L	Lab Analysis		1						
	Potassium	mg/L	Lab Analysis		1						
	Sodium	mg/L	Lab Analysis		1						
	Sulfate	mg/L	Lab Analysis		1						
37 (P84)	Conductivity	µs/cm	In situ	Monthly	1	6/11/2023	27/11/2023	NA	NA	NA	21010
	pH	pH	In situ		1	6/11/2023	27/11/2023	NA	NA	NA	6.74

	SWL	mbtoc	In situ		1	6/11/2023	27/11/2023	NA	NA	NA	13.65
	Bicarbonate	mg/L	Lab Analysis		1	6/11/2023	27/11/2023	NA	NA	NA	2800
	Calcium	mg/L	Lab Analysis		1	6/11/2023	27/11/2023	NA	NA	NA	96
	Carbonate	mg/L	Lab Analysis		1	6/11/2023	27/11/2023	NA	NA	NA	<1
	Chloride	mg/L	Lab Analysis		1	6/11/2023	27/11/2023	NA	NA	NA	5740
	Magnesium	mg/L	Lab Analysis		1	6/11/2023	27/11/2023	NA	NA	NA	413
	Potassium	mg/L	Lab Analysis		1	6/11/2023	27/11/2023	NA	NA	NA	37
	Sodium	mg/L	Lab Analysis		1	6/11/2023	27/11/2023	NA	NA	NA	4880
	Sulfate	mg/L	Lab Analysis		1	6/11/2023	27/11/2023	NA	NA	NA	1280
38 (P85)	Conductivity	µs/cm	In situ	Monthly	0	<i>Insufficient water to sample</i>					
	pH	pH	In situ		0						
	SWL	mbtoc	In situ		0						
	Bicarbonate	mg/L	Lab Analysis		0						
	Calcium	mg/L	Lab Analysis		0						
	Carbonate	mg/L	Lab Analysis		0						
	Chloride	mg/L	Lab Analysis		0						
	Magnesium	mg/L	Lab Analysis		0						
	Potassium	mg/L	Lab Analysis		0						
	Sodium	mg/L	Lab Analysis		0						

	Sulfate	mg/L	Lab Analysis		0	
39 (P88)	Conductivity	µs/cm	In situ	Monthly	1	<i>Bore was dry during sampling period</i>
	pH	pH	In situ		1	
	SWL	mbtoc	In situ		1	
	Bicarbonate	mg/L	Lab Analysis		1	
	Calcium	mg/L	Lab Analysis		1	
	Carbonate	mg/L	Lab Analysis		1	
	Chloride	mg/L	Lab Analysis		1	
	Magnesium	mg/L	Lab Analysis		1	
	Potassium	mg/L	Lab Analysis		1	
	Sodium	mg/L	Lab Analysis		1	
	Sulfate	mg/L	Lab Analysis		1	
40 (P89)	Conductivity	µs/cm	In situ	Monthly	0	<i>Bore was dry during sampling period</i>
	pH	pH	In situ		0	
	SWL	mbtoc	In situ		0	
	Bicarbonate	mg/L	Lab Analysis		0	
	Calcium	mg/L	Lab Analysis		0	
	Carbonate	mg/L	Lab Analysis		0	
	Chloride	mg/L	Lab Analysis		0	
	Magnesium	mg/L	Lab Analysis		0	



	Potassium	mg/L	Lab Analysis		0	
	Sodium	mg/L	Lab Analysis		0	
	Sulfate	mg/L	Lab Analysis		0	

Table 2 - Pollutant Limits Apply (Water)

EPL ID	Pollutant	Units of Measure	Sample Method	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 (Mine Site Sample ID)
11	TSS	mg/L	Lab Analysis	Upon discharge	0	<i>No discharge occurred during sampling period</i>					50	n/a	SD4
	Oil & Grease	mg/L	Lab Analysis		0						10	n/a	
	pH	pH	In situ		0						6.5-8.5	n/a	
13	TSS	mg/L	Lab Analysis	Upon discharge	0	<i>No discharge occurred during sampling period</i>					50	n/a	SD2
	Oil & Grease	mg/L	Lab Analysis		0						10	n/a	
	pH	pH	In situ		0						6.5-8.5	n/a	
18	TSS	mg/L	Lab Analysis	Upon discharge	0	<i>No discharge occurred during sampling period</i>					50	n/a	SD7
	Oil & Grease	mg/L	Lab Analysis		0						10	n/a	
	pH	pH	In situ		0						6.5-8.5	n/a	
24	TDS	mg/L	Lab Analysis	Upon discharge	0	<i>Namoi discharge point – Not constructed or currently utilised.</i>					350	n/a	NR1
	pH	pH	In situ		0						6.5-8.5	n/a	
27	TSS	mg/L	Lab Analysis	Upon discharge	0	<i>No discharge occurred during reporting period</i>					50	n/a	SD8
	Oil & Grease	mg/L	Lab Analysis		0						10	n/a	
	pH	pH	In situ		0						6.5-8.5	n/a	

Table 3 – Quarterly Attended Noise Monitoring results summary table

Noise monitoring not scheduled in October. Next scheduled sampling is for November 2023.

EPL ID	Date	Measured Levels – dB(A)	Limit(s)	Measurement Periods	Weather Compliant Conditions (D/E/N)			Compliant (Yes/No)	Date Obtained			
		Leq 15min Day	Leq 15min Evening	Leq 15min Night	LA1 (1 min) Night							
N5 ²						<u>Day, Evening & Night:</u> 35 <u>Night</u> <u>LA1 (1 min):</u> 45	Day – 1.5 hrs					
							Evening – 0.5 hrs					
								Night – 1 hr				
N6						<u>Day, Evening & Night:</u> 35 <u>Night</u> <u>LA1 (1 min):</u> 45	Day – 1.5 hrs					
							Evening – 0.5 hrs					
								Night – 1 hr				
N8 ²						<u>Day, Evening & Night:</u> 35 <u>Night</u> <u>LA1 (1 min):</u> 45	Day – 1.5 hrs					
							Evening – 0.5 hrs					
								Night – 1 hr				
N9 ²						<u>Day, Evening & Night:</u> 35 <u>Night</u> <u>LA1 (1 min):</u> 45	Day – 1.5 hrs					
							Evening – 0.5 hrs					
								Night – 1 hr				

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 2023

Obtained Date: 12/12/2023

Publication Date: 12/12/2023

EPL	Pollutant	Units of Measure	Sample Method	Monitoring Frequency	No. of Samples for the Month	Dates Sampled	Date Obtained	Min Value	Mean Value	Median Value	Max or Only Value
ND3	Deposited Matter	g/m ² /month	Lab Analysis	Once a month (min. 4 weeks)	1	15/11/2023	08/12/2023	NA	NA	NA	0.9
11	Conductivity	µs/cm	In situ	Upon discharge (within 12 hours)	<i>No discharge occurred during sampling period (SD4)</i>						
	TOC	mg/L	Lab Analysis								
13	Conductivity	µs/cm	In situ	Upon discharge (within 12 hours)	<i>No discharge occurred during sampling period (SD2)</i>						
	TOC	mg/L	Lab Analysis								
14	Conductivity	µs/cm	In situ	In the event of flow during the quarter & after each wet weather discharge from points 11, 13, 18,27	0	Ambient Flow 24/11/2023 (check completed, no flow)	NA	NA	NA	NA	
	TOC	mg/L	Lab Analysis		0		NA	NA	NA	NA	
	Oil & Grease	mg/L	Lab Analysis		0		NA	NA	NA	NA	
	pH	pH	In situ		0		NA	NA	NA	NA	
	TSS	mg/L	Lab Analysis		0		NA	NA	NA	NA	
15	Conductivity	µs/cm	In situ	In the event of flow during the quarter & after each wet weather discharge from points 11, 13, 18,27	0	Ambient Flow 24/11/2023 (check completed, no flow)	NA	NA	NA	NA	
	TOC	mg/L	Lab Analysis		0		NA	NA	NA	NA	
	Oil & Grease	mg/L	Lab Analysis		0		NA	NA	NA	NA	
	pH	pH	In situ		0		NA	NA	NA	NA	
	TSS	mg/L	Lab Analysis		0		NA	NA	NA	NA	

16	Conductivity	µs/cm	In situ	In the event of flow during the quarter & after each wet weather discharge from points 11, 13, 18,27	0	Ambient Flow 24/11/2023 (check completed, no flow)	NA	NA	NA	NA
	TOC	mg/L	Lab Analysis		0		NA	NA	NA	NA
	Oil & Grease	mg/L	Lab Analysis		0		NA	NA	NA	NA
	pH	pH	In situ		0		NA	NA	NA	NA
	TSS	mg/L	Lab Analysis		0		NA	NA	NA	NA
17	Conductivity	µs/cm	In situ	In the event of flow during the quarter & after each wet weather discharge from points 11, 13, 18,27	0	Ambient Flow 24/11/2023 (check completed, no flow)	NA	NA	NA	NA
	TOC	mg/L	Lab Analysis		0		NA	NA	NA	NA
	Oil & Grease	mg/L	Lab Analysis		0		NA	NA	NA	NA
	pH	pH	In situ		0		NA	NA	NA	NA
	TSS	mg/L	Lab Analysis		0		NA	NA	NA	NA
18	Conductivity	µs/cm	In Situ	Upon discharge (within 12 hours)	<i>No discharge occurred during sampling period (SD7)</i>					
	TOC	mg/L	Lab Analysis							
19	Conductivity	µs/cm	In situ	In the event of flow during the quarter & after each wet weather discharge from points 11, 13, 18,27	0	Ambient Flow 24/11/2023 (check completed, no flow)	NA	NA	NA	NA
	TOC	mg/L	Lab Analysis		0		NA	NA	NA	NA
	Oil & Grease	mg/L	Lab Analysis		0		NA	NA	NA	NA
	pH	pH	In situ		0		NA	NA	NA	NA
	TSS	mg/L	Lab Analysis		0		NA	NA	NA	NA
20	Conductivity	µs/cm	In situ	In the event of flow during the quarter & after each wet weather discharge	0	Ambient Flow 24/11/2023 (check completed, no flow)	NA	NA	NA	NA
	TOC	mg/L	Lab Analysis		0		NA	NA	NA	NA
	Oil & Grease	mg/L	Lab Analysis		0		NA	NA	NA	NA
	pH	pH	In situ		0		NA	NA	NA	NA

	TSS	mg/L	Lab Analysis	from points 11, 13, 18,27	0		NA	NA	NA	NA
21	Conductivity	µs/cm	In situ	In the event of flow during the quarter & after each wet weather discharge from points 11, 13, 18,27	0	Ambient Flow 24/11/2023 (check completed, no flow)	NA	NA	NA	NA
	TOC	mg/L	Lab Analysis		0		NA	NA	NA	NA
	Oil & Grease	mg/L	Lab Analysis		0		NA	NA	NA	NA
	pH	pH	In situ		0		NA	NA	NA	NA
	TSS	mg/L	Lab Analysis		0		NA	NA	NA	NA
22	Conductivity	µs/cm	In situ	In the event of flow during the quarter & after each wet weather discharge from points 11, 13, 18,27	0	Ambient Flow 24/11/2023 (check completed, no flow)	NA	NA	NA	NA
	TOC	mg/L	Lab Analysis		0		NA	NA	NA	NA
	Oil & Grease	mg/L	Lab Analysis		0		NA	NA	NA	NA
	pH	pH	In situ		0		NA	NA	NA	NA
	TSS	mg/L	Lab Analysis		0		NA	NA	NA	NA
24	pH	pH	In situ	Upon Discharge (within 4 hrs)	<i>Namoi discharge point – Not constructed or currently utilised (NR1).</i>					
	TDS	mg/L	Lab Analysis							
25	pH	pH	In situ	Upon Discharge (within 4 hrs)	<i>Namoi discharge point – Not constructed or currently utilised (NRUS).</i>					
	TDS	mg/L	Lab Analysis							
26	pH	pH	In situ	Upon Discharge (within 4 hrs)	<i>Namoi discharge point – Not constructed or currently utilised (NRDS).</i>					
	TDS	mg/L	Lab Analysis							

Table 1 – No Pollutant Limits Apply

28 (P28)	Conductivity	µs/cm	In situ	Quarterly	0	<i>Not scheduled for sampling during sampling period</i>
	pH	pH	In situ		0	
	SWL	mbtoc	In situ		0	
	Bicarbonate	mg/L	Lab Analysis		0	
	Calcium	mg/L	Lab Analysis		0	
	Carbonate	mg/L	Lab Analysis		0	
	Chloride	mg/L	Lab Analysis		0	
	Magnesium	mg/L	Lab Analysis		0	
	Potassium	mg/L	Lab Analysis		0	
	Sodium	mg/L	Lab Analysis		0	
	Sulfate	mg/L	Lab Analysis		0	
29 (P29)	Conductivity	µs/cm	In situ	Quarterly	0	<i>Not scheduled for sampling during sampling period</i>
	pH	pH	In situ		0	
	SWL	mbtoc	In situ		0	
	Bicarbonate	mg/L	Lab Analysis		0	
	Calcium	mg/L	Lab Analysis		0	
	Carbonate	mg/L	Lab Analysis		0	
	Chloride	mg/L	Lab Analysis		0	
	Magnesium	mg/L	Lab Analysis		0	

	Potassium	mg/L	Lab Analysis		0	
	Sodium	mg/L	Lab Analysis		0	
	Sulfate	mg/L	Lab Analysis		0	
30 (P30)	Conductivity	µs/cm	In situ	Quarterly	0	<i>Not scheduled for sampling during sampling period</i>
	pH	pH	In situ		0	
	SWL	mbtoc	In situ		0	
	Bicarbonate	mg/L	Lab Analysis		0	
	Calcium	mg/L	Lab Analysis		0	
	Carbonate	mg/L	Lab Analysis		0	
	Chloride	mg/L	Lab Analysis		0	
	Magnesium	mg/L	Lab Analysis		0	
	Potassium	mg/L	Lab Analysis		0	
	Sodium	mg/L	Lab Analysis		0	
	Sulfate	mg/L	Lab Analysis		0	
31 (P31)	Conductivity	µs/cm	In situ	Quarterly	0	<i>Not scheduled for sampling during sampling period</i>
	pH	pH	In situ		0	
	SWL	mbtoc	In situ		0	
	Bicarbonate	mg/L	Lab Analysis		0	
	Calcium	mg/L	Lab Analysis		0	

	Carbonate	mg/L	Lab Analysis		0	
	Chloride	mg/L	Lab Analysis		0	
	Magnesium	mg/L	Lab Analysis		0	
	Potassium	mg/L	Lab Analysis		0	
	Sodium	mg/L	Lab Analysis		0	
	Sulfate	mg/L	Lab Analysis		0	
32 (P32)	Conductivity	µs/cm	In situ	Quarterly	0	<i>Not scheduled for sampling during sampling period</i>
	pH	pH	In situ		0	
	SWL	mbtoc	In situ		0	
	Bicarbonate	mg/L	Lab Analysis		0	
	Calcium	mg/L	Lab Analysis		0	
	Carbonate	mg/L	Lab Analysis		0	
	Chloride	mg/L	Lab Analysis		0	
	Magnesium	mg/L	Lab Analysis		0	
	Potassium	mg/L	Lab Analysis		0	
	Sodium	mg/L	Lab Analysis		0	
	Sulfate	mg/L	Lab Analysis		0	
	Conductivity	µs/cm	In situ	Quarterly	0	<i>Not scheduled for sampling during sampling period</i>
	pH	pH	In situ		0	
	SWL	mbtoc	In situ		0	

33 (P33)	Bicarbonate	mg/L	Lab Analysis		0	
	Calcium	mg/L	Lab Analysis		0	
	Carbonate	mg/L	Lab Analysis		0	
	Chloride	mg/L	Lab Analysis		0	
	Magnesium	mg/L	Lab Analysis		0	
	Potassium	mg/L	Lab Analysis		0	
	Sodium	mg/L	Lab Analysis		0	
	Sulfate	mg/L	Lab Analysis		0	
34 (P34)	Conductivity	µs/cm	In situ	Quarterly	0	<i>Not scheduled for sampling during sampling period</i>
	pH	pH	In situ		0	
	SWL	mbtoc	In situ		0	
	Bicarbonate	mg/L	Lab Analysis		0	
	Calcium	mg/L	Lab Analysis		0	
	Carbonate	mg/L	Lab Analysis		0	
	Chloride	mg/L	Lab Analysis		0	
	Magnesium	mg/L	Lab Analysis		0	
	Potassium	mg/L	Lab Analysis		0	
	Sodium	mg/L	Lab Analysis		0	
	Sulfate	mg/L	Lab Analysis		0	

35 (P58)	Conductivity	µs/cm	In situ	Quarterly	0	<i>Not scheduled for sampling during sampling period</i>
	pH	pH	In situ		0	
	SWL	mbtoc	In situ		0	
	Bicarbonate	mg/L	Lab Analysis		0	
	Calcium	mg/L	Lab Analysis		0	
	Carbonate	mg/L	Lab Analysis		0	
	Chloride	mg/L	Lab Analysis		0	
	Magnesium	mg/L	Lab Analysis		0	
	Potassium	mg/L	Lab Analysis		0	
	Sodium	mg/L	Lab Analysis		0	
	Sulfate	mg/L	Lab Analysis		0	
36 (P83)	Conductivity	µs/cm	In situ	Monthly	1	<i>Bore was dry during sampling period</i>
	pH	pH	In situ		1	
	SWL	mbtoc	In situ		1	
	Bicarbonate	mg/L	Lab Analysis		1	
	Calcium	mg/L	Lab Analysis		1	
	Carbonate	mg/L	Lab Analysis		1	
	Chloride	mg/L	Lab Analysis		1	
	Magnesium	mg/L	Lab Analysis		1	
	Potassium	mg/L	Lab Analysis		1	

	Sodium	mg/L	Lab Analysis		1						
	Sulfate	mg/L	Lab Analysis		1						
37 (P84)	Conductivity	µs/cm	In situ	Monthly	1	27/11/2023	8/12/2023	NA	NA	NA	21550
	pH	pH	In situ		1	27/11/2023	8/12/2023	NA	NA	NA	6.81
	SWL	mbtoc	In situ		1	27/11/2023	8/12/2023	NA	NA	NA	13.61
	Bicarbonate	mg/L	Lab Analysis		1	27/11/2023	8/12/2023	NA	NA	NA	2480
	Calcium	mg/L	Lab Analysis		1	27/11/2023	8/12/2023	NA	NA	NA	84
	Carbonate	mg/L	Lab Analysis		1	27/11/2023	8/12/2023	NA	NA	NA	<1
	Chloride	mg/L	Lab Analysis		1	27/11/2023	8/12/2023	NA	NA	NA	5720
	Magnesium	mg/L	Lab Analysis		1	27/11/2023	8/12/2023	NA	NA	NA	375
	Potassium	mg/L	Lab Analysis		1	27/11/2023	8/12/2023	NA	NA	NA	39
	Sodium	mg/L	Lab Analysis		1	27/11/2023	8/12/2023	NA	NA	NA	4530
	Sulfate	mg/L	Lab Analysis		1	27/11/2023	8/12/2023	NA	NA	NA	1070
38 (P85)	Conductivity	µs/cm	In situ	Monthly	1	<i>Insufficient water to sample</i>					
	pH	pH	In situ		1						
	SWL	mbtoc	In situ		1						
	Bicarbonate	mg/L	Lab Analysis		1						
	Calcium	mg/L	Lab Analysis		1						
	Carbonate	mg/L	Lab Analysis		1						

	Chloride	mg/L	Lab Analysis		1	
	Magnesium	mg/L	Lab Analysis		1	
	Potassium	mg/L	Lab Analysis		1	
	Sodium	mg/L	Lab Analysis		1	
	Sulfate	mg/L	Lab Analysis		1	
39 (P88)	Conductivity	µs/cm	In situ	Monthly	1	<i>Bore was dry during sampling period</i>
	pH	pH	In situ		1	
	SWL	mbtoc	In situ		1	
	Bicarbonate	mg/L	Lab Analysis		1	
	Calcium	mg/L	Lab Analysis		1	
	Carbonate	mg/L	Lab Analysis		1	
	Chloride	mg/L	Lab Analysis		1	
	Magnesium	mg/L	Lab Analysis		1	
	Potassium	mg/L	Lab Analysis		1	
	Sodium	mg/L	Lab Analysis		1	
	Sulfate	mg/L	Lab Analysis		1	
	Conductivity	µs/cm	In situ	Monthly	0	<i>Bore was dry during sampling period</i>
	pH	pH	In situ		0	
	SWL	mbtoc	In situ		0	
	Bicarbonate	mg/L	Lab Analysis		0	

40 (P89)	Calcium	mg/L	Lab Analysis	0
	Carbonate	mg/L	Lab Analysis	0
	Chloride	mg/L	Lab Analysis	0
	Magnesium	mg/L	Lab Analysis	0
	Potassium	mg/L	Lab Analysis	0
	Sodium	mg/L	Lab Analysis	0
	Sulfate	mg/L	Lab Analysis	0

Table 2 - Pollutant Limits Apply (Water)

EPL ID	Pollutant	Units of Measure	Sample Method	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 (Mine Site Sample ID)
11	TSS	mg/L	Lab Analysis	Upon discharge	0	<i>No discharge occurred during sampling period</i>					50	n/a	SD4
	Oil & Grease	mg/L	Lab Analysis		0						10	n/a	
	pH	pH	In situ		0						6.5-8.5	n/a	
13	TSS	mg/L	Lab Analysis	Upon discharge	0	<i>No discharge occurred during sampling period</i>					50	n/a	SD2
	Oil & Grease	mg/L	Lab Analysis		0						10	n/a	
	pH	pH	In situ		0						6.5-8.5	n/a	
18	TSS	mg/L	Lab Analysis	Upon discharge	0	<i>No discharge occurred during sampling period</i>					50	n/a	SD7
	Oil & Grease	mg/L	Lab Analysis		0						10	n/a	
	pH	pH	In situ		0						6.5-8.5	n/a	
24	TDS	mg/L	Lab Analysis	Upon discharge	0	<i>Namoi discharge point – Not constructed or currently utilised.</i>					350	n/a	NR1
	pH	pH	In situ		0						6.5-8.5	n/a	
27	TSS	mg/L	Lab Analysis	Upon discharge	0	<i>No discharge occurred during reporting period</i>					50	n/a	SD8
	Oil & Grease	mg/L	Lab Analysis		0						10	n/a	
	pH	pH	In situ		0						6.5-8.5	n/a	

Table 3 – Quarterly Attended Noise Monitoring results summary table

Attended Noise Monitoring Results for Quarter 4, November 2023.

EPL ID	Date	Measured Levels – dB(A)	Limit(s)	Measurement Periods	Weather Compliant Conditions (D/E/N)			Compliant (Yes/No)	Date Obtained			
		Leq 15min Day	Leq 15min Evening	Leq 15min Night	LA1 (1 min) Night							
N5 ²	13/11/2023 ³	N/M	I/A	I/A	I/A	<u>Day, Evening & Night:</u> 35 <u>Night</u> <u>LA1 (1 min):</u> 45	Day – 1.5 hrs	Y4	Y4	Y4	Y	12/12/2023
	14/11/2023	I/A	N/M	<25	27		Evening – 0.5 hrs	Y	Y	Y	Y	
	15/11/2023 ³	35	25	N/M	N/M		Night – 1 hr	Y	Y	Y	Y	
N6	13/11/2023 ³	N/M	26	<25	25	<u>Day, Evening & Night:</u> 35 <u>Night</u> <u>LA1 (1 min):</u> 45	Day – 1.5 hrs	Y4	Y4	N4	Y	
	14/11/2023	27	27	27	32		Evening – 0.5 hrs	Y4	Y	Y	Y	
	15/11/2023 ³	32	25	N/M	N/M		Night – 1 hr	Y	Y	Y	Y	
N8 ²	13/11/2023 ³	30	I/A	I/A	I/A	<u>Day, Evening & Night:</u> 35 <u>Night</u> <u>LA1 (1 min):</u> 45	Day – 1.5 hrs	Y4	N4	Y4	Y	
	14/11/2023	33	31	31	39		Evening – 0.5 hrs	Y	Y	Y	Y	
	15/11/2023 ³	34	N/M	25	27		Night – 1 hr	Y	Y	Y	Y	
N9 ²	13/11/2023 ³	I/A	32	I/A	I/A	<u>Day, Evening & Night:</u> 35 <u>Night</u> <u>LA1 (1 min):</u> 45	Day – 1.5 hrs	Y4	Y4	N4	Y	
	14/11/2023	I/A	I/A	32	38		Evening – 0.5 hrs	Y4	Y	N	Y	
	15/11/2023 ³	30	N/M	30	35		Night – 1 hr	Y	Y	Y	Y	

I/A=Inaudible, N/M = Not Measurable

Note 1: Property is owned by Narrabri Coal Operations. Noise limits contained in Conditions 1-3, Schedule 4 of PA 08_0144 Mod 2 and the identical limits contained in condition L3 of Environment Protection Licence No 12789 are not applicable.

Note 2: Evening and Night monitoring conducted on this date, Day monitoring conducted during the following day period.

Note 3: Due to technical issues at inversion monitoring location W2, weather information at this location was not recorded during this time. Field observations were indicative of noise enhancing conditions likely to be present during this period. Note 5: The Noise Criteria for EPL Monitoring Locations N5 (Oakleigh) and N8 (Haylin View) does not apply as these properties are owned by Narrabri Coal and are therefore not privately owned residences.

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 2023

Obtained Date: 16/01/2024

Publication Date: 18/01/2024

Table 1 – No Pollutant Limits Apply

EPL ID	Pollutant	Units of Measure	Sample Method	Monitoring Frequency	No. of Samples for the Month	Dates Sampled	Date Obtained	Min Value	Mean Value	Median Value	Max or Only Value
ND3	Deposited Matter	g/m ² /month	Lab Analysis	Once a month (min. 4 weeks)	1	12/12/2023	04/01/2024	NA	NA	NA	1.1
11 (SD4)	Conductivity	µs/cm	In situ	Upon discharge (within 12 hours)	<i>No discharge occurred during sampling period (SD4)</i>						
	TOC	mg/L	Lab Analysis								
13 (SD2)	Conductivity	µs/cm	In situ	Upon discharge (within 12 hours)	<i>No discharge occurred during sampling period (SD2)</i>						
	TOC	mg/L	Lab Analysis								
14 (KC1US)	Conductivity	µs/cm	In situ	In the event of flow during the quarter & after each wet weather discharge from points 11, 13, 18,27	<i>No flow events and/or mine discharge occurred during sampling period (KC1US)</i>						
	TOC	mg/L	Lab Analysis								
	Oil & Grease	mg/L	Lab Analysis								
	pH	pH	In situ								
	TSS	mg/L	Lab Analysis								
15 (KC1DS)	Conductivity	µs/cm	In situ	In the event of flow during the quarter & after each wet weather discharge from points 11, 13, 18,27	<i>No flow events and/or mine discharge occurred during sampling period (KC1DS)</i>						
	TOC	mg/L	Lab Analysis								
	Oil & Grease	mg/L	Lab Analysis								
	pH	pH	In situ								
	TSS	mg/L	Lab Analysis								

16 (KC2US)	Conductivity	µs/cm	In situ	In the event of flow during the quarter & after each wet weather discharge from points 11, 13, 18,27	<i>No flow events and/or mine discharge occurred during sampling period (KC2US)</i>
	TOC	mg/L	Lab Analysis		
	Oil & Grease	mg/L	Lab Analysis		
	pH	pH	In situ		
	TSS	mg/L	Lab Analysis		
17 (KC2DS)	Conductivity	µs/cm	In situ	In the event of flow during the quarter & after each wet weather discharge from points 11, 13, 18,27	<i>No flow events and/or mine discharge occurred during sampling period (KC2DS)</i>
	TOC	mg/L	Lab Analysis		
	Oil & Grease	mg/L	Lab Analysis		
	pH	pH	In situ		
	TSS	mg/L	Lab Analysis		
18 (SD7)	Conductivity	µs/cm	In Situ	Upon discharge (within 12 hours)	<i>No discharge occurred during sampling period (SD7)</i>
	TOC	mg/L	Lab Analysis		
19 (KCUS)	Conductivity	µs/cm	In situ	In the event of flow during the quarter & after each wet weather discharge from points 11, 13, 18,27	<i>No flow events and/or mine discharge occurred during sampling period (KCUS)</i>
	TOC	mg/L	Lab Analysis		
	Oil & Grease	mg/L	Lab Analysis		
	pH	pH	In situ		
	TSS	mg/L	Lab Analysis		
20 (KCDS)	Conductivity	µs/cm	In situ	In the event of flow during the quarter & after each wet weather discharge	<i>No flow events and/or mine discharge occurred during sampling period (KCDS)</i>
	TOC	mg/L	Lab Analysis		
	Oil & Grease	mg/L	Lab Analysis		
	pH	pH	In situ		

	TSS	mg/L	Lab Analysis	from points 11, 13, 18,27		
21 (PCa)	Conductivity	µs/cm	In situ	In the event of flow during the quarter & after each wet weather discharge from points 11, 13, 18,27	<i>No flow events and/or mine discharge occurred during sampling period (PCa)</i>	
	TOC	mg/L	Lab Analysis			
	Oil & Grease	mg/L	Lab Analysis			
	pH	pH	In situ			
	TSS	mg/L	Lab Analysis			
22 (PC1)	Conductivity	µs/cm	In situ	In the event of flow during the quarter & after each wet weather discharge from points 11, 13, 18,27	<i>No flow events and/or mine discharge occurred during sampling period (PC1)</i>	
	TOC	mg/L	Lab Analysis			
	Oil & Grease	mg/L	Lab Analysis			
	pH	pH	In situ			
	TSS	mg/L	Lab Analysis			
24 (NR1)	pH	pH	In situ	Upon Discharge (within 4 hrs)	<i>Namoi discharge point – Not constructed or currently utilised (NR1)</i>	
	TDS	mg/L	Lab Analysis			
25 (NRUS)	pH	pH	In situ	Upon Discharge (within 4 hrs)	<i>Namoi discharge point – Not constructed or currently utilised (NRUS)</i>	
	TDS	mg/L	Lab Analysis			
26 (NRDS)	pH	pH	In situ	Upon Discharge (within 4 hrs)	<i>Namoi discharge point – Not constructed or currently utilised (NRDS)</i>	
	TDS	mg/L	Lab Analysis			
28 (P28)	Conductivity	µs/cm	In situ	Quarterly	0	<i>Bore was dry during sampling period</i>
	pH	pH	In situ		0	
	SWL	mbtoc	In situ		0	
	Bicarbonate	mg/L	Lab Analysis		0	

	Calcium	mg/L	Lab Analysis		0						
	Carbonate	mg/L	Lab Analysis		0						
	Chloride	mg/L	Lab Analysis		0						
	Magnesium	mg/L	Lab Analysis		0						
	Potassium	mg/L	Lab Analysis		0						
	Sodium	mg/L	Lab Analysis		0						
	Sulphate	mg/L	Lab Analysis		0						
29 (P29)	Conductivity	µs/cm	Lab Analysis	Quarterly	1	22/12/2023	10/01/2024	NA	NA	NA	15200
	pH	pH	Lab Analysis		1	22/12/2023	10/01/2024	NA	NA	NA	7.28
	SWL	mbtoc	Lab Analysis		1	22/12/2023	10/01/2024	NA	NA	NA	4.49
	Bicarbonate	mg/L	Lab Analysis		1	22/12/2023	10/01/2024	NA	NA	NA	649
	Calcium	mg/L	Lab Analysis		1	22/12/2023	10/01/2024	NA	NA	NA	106
	Carbonate	mg/L	Lab Analysis		1	22/12/2023	10/01/2024	NA	NA	NA	<1
	Chloride	mg/L	Lab Analysis		1	22/12/2023	10/01/2024	NA	NA	NA	5040
	Magnesium	mg/L	Lab Analysis		1	22/12/2023	10/01/2024	NA	NA	NA	267
	Potassium	mg/L	Lab Analysis		1	22/12/2023	10/01/2024	NA	NA	NA	5
	Sodium	mg/L	Lab Analysis		1	22/12/2023	10/01/2024	NA	NA	NA	3180

	Sulphate	mg/L	Lab Analysis		1	22/12/2023	10/01/2024	NA	NA	NA	637
30 (P30)	Conductivity	µs/cm	Lab Analysis	Quarterly	1	22/12/2023	10/01/2024	NA	NA	NA	16700
	pH	pH	Lab Analysis		1	22/12/2023	10/01/2024	NA	NA	NA	7.18
	SWL	mbtoc	Lab Analysis		1	22/12/2023	10/01/2024	NA	NA	NA	12.20
	Bicarbonate	mg/L	Lab Analysis		1	22/12/2023	10/01/2024	NA	NA	NA	798
	Calcium	mg/L	Lab Analysis		1	22/12/2023	10/01/2024	NA	NA	NA	139
	Carbonate	mg/L	Lab Analysis		1	22/12/2023	10/01/2024	NA	NA	NA	<1
	Chloride	mg/L	Lab Analysis		1	22/12/2023	10/01/2024	NA	NA	NA	5430
	Magnesium	mg/L	Lab Analysis		1	22/12/2023	10/01/2024	NA	NA	NA	382
	Potassium	mg/L	Lab Analysis		1	22/12/2023	10/01/2024	NA	NA	NA	19
	Sodium	mg/L	Lab Analysis		1	22/12/2023	10/01/2024	NA	NA	NA	3460
	Sulphate	mg/L	Lab Analysis		1	22/12/2023	10/01/2024	NA	NA	NA	1100
31 (P31)	Conductivity	µs/cm	Lab Analysis	Quarterly	1	22/12/2023	10/01/2024	NA	NA	NA	6860
	pH	pH	Lab Analysis		1	22/12/2023	10/01/2024	NA	NA	NA	7.40
	SWL	mbtoc	Lab Analysis		1	22/12/2023	10/01/2024	NA	NA	NA	16.49
	Bicarbonate	mg/L	Lab Analysis		1	22/12/2023	10/01/2024	NA	NA	NA	791
	Calcium	mg/L	Lab Analysis		1	22/12/2023	10/01/2024	NA	NA	NA	84

	Carbonate	mg/L	Lab Analysis		1	22/12/2023	10/01/2024	NA	NA	NA	<1
	Chloride	mg/L	Lab Analysis		1	22/12/2023	10/01/2024	NA	NA	NA	1710
	Magnesium	mg/L	Lab Analysis		1	22/12/2023	10/01/2024	NA	NA	NA	166
	Potassium	mg/L	Lab Analysis		1	22/12/2023	10/01/2024	NA	NA	NA	13
	Sodium	mg/L	Lab Analysis		1	22/12/2023	10/01/2024	NA	NA	NA	1300
	Sulphate	mg/L	Lab Analysis		1	22/12/2023	10/01/2024	NA	NA	NA	333
32 (P32)	Conductivity	µs/cm	Lab Analysis	Quarterly	1	22/12/2023	10/01/2024	NA	NA	NA	1810
	pH	pH	Lab Analysis		1	22/12/2023	10/01/2024	NA	NA	NA	8.38
	SWL	mbtoc	Lab Analysis		1	22/12/2023	10/01/2024	NA	NA	NA	8.13
	Bicarbonate	mg/L	Lab Analysis		1	22/12/2023	10/01/2024	NA	NA	NA	612
	Calcium	mg/L	Lab Analysis		1	22/12/2023	10/01/2024	NA	NA	NA	<1
	Carbonate	mg/L	Lab Analysis		1	22/12/2023	10/01/2024	NA	NA	NA	35
	Chloride	mg/L	Lab Analysis		1	22/12/2023	10/01/2024	NA	NA	NA	162
	Magnesium	mg/L	Lab Analysis		1	22/12/2023	10/01/2024	NA	NA	NA	2
	Potassium	mg/L	Lab Analysis		1	22/12/2023	10/01/2024	NA	NA	NA	<1
	Sodium	mg/L	Lab Analysis		1	22/12/2023	10/01/2024	NA	NA	NA	478
	Sulphate	mg/L	Lab Analysis		1	22/12/2023	10/01/2024	NA	NA	NA	88

33 (P33)	Conductivity	µs/cm	Lab Analysis	Quarterly	0	22/12/2023	10/01/2024	NA	NA	NA	1580
	pH	pH	Lab Analysis		0	22/12/2023	10/01/2024	NA	NA	NA	7.59
	SWL	mbtoc	Lab Analysis		0	22/12/2023	10/01/2024	NA	NA	NA	10.60
	Bicarbonate	mg/L	Lab Analysis		0	22/12/2023	10/01/2024	NA	NA	NA	204
	Calcium	mg/L	Lab Analysis		0	22/12/2023	10/01/2024	NA	NA	NA	2
	Carbonate	mg/L	Lab Analysis		0	22/12/2023	10/01/2024	NA	NA	NA	<1
	Chloride	mg/L	Lab Analysis		0	22/12/2023	10/01/2024	NA	NA	NA	351
	Magnesium	mg/L	Lab Analysis		0	22/12/2023	10/01/2024	NA	NA	NA	3
	Potassium	mg/L	Lab Analysis		0	22/12/2023	10/01/2024	NA	NA	NA	1
	Sodium	mg/L	Lab Analysis		0	22/12/2023	10/01/2024	NA	NA	NA	359
	Sulphate	mg/L	Lab Analysis		0	22/12/2023	10/01/2024	NA	NA	NA	103
34 (P34)	Conductivity	µs/cm	In situ	Quarterly	0	<i>Bore was dry during sampling period</i>					
	pH	pH	In situ		0						
	SWL	mbtoc	In situ		0						
	Bicarbonate	mg/L	Lab Analysis		0						
	Calcium	mg/L	Lab Analysis		0						
	Carbonate	mg/L	Lab Analysis		0						
	Chloride	mg/L	Lab Analysis		0						
	Magnesium	mg/L	Lab Analysis		0						

	Potassium	mg/L	Lab Analysis		0						
	Sodium	mg/L	Lab Analysis		0						
	Sulphate	mg/L	Lab Analysis		0						
35 (P58)	Conductivity	µs/cm	Lab Analysis	Quarterly	1	22/12/2023	10/01/2024	NA	NA	NA	11500
	pH	pH	Lab Analysis		1	22/12/2023	10/01/2024	NA	NA	NA	7.72
	SWL	mbtoc	Lab Analysis		1	22/12/2023	10/01/2024	NA	NA	NA	19.60
	Bicarbonate	mg/L	Lab Analysis		1	22/12/2023	10/01/2024	NA	NA	NA	4220
	Calcium	mg/L	Lab Analysis		1	22/12/2023	10/01/2024	NA	NA	NA	29
	Carbonate	mg/L	Lab Analysis		1	22/12/2023	10/01/2024	NA	NA	NA	<1
	Chloride	mg/L	Lab Analysis		1	22/12/2023	10/01/2024	NA	NA	NA	1800
	Magnesium	mg/L	Lab Analysis		1	22/12/2023	10/01/2024	NA	NA	NA	65
	Potassium	mg/L	Lab Analysis		1	22/12/2023	10/01/2024	NA	NA	NA	80
	Sodium	mg/L	Lab Analysis		1	22/12/2023	10/01/2024	NA	NA	NA	3180
	Sulfate	mg/L	Lab Analysis		1	22/12/2023	10/01/2024	NA	NA	NA	131
36 (P83)	Conductivity	µs/cm	In situ	Monthly	0	<i>Bore was dry during sampling period</i>					
	pH	pH	In situ		0						
	SWL	mbtoc	In situ		0						
	Bicarbonate	mg/L	Lab Analysis		0						
	Calcium	mg/L	Lab Analysis		0						

	Carbonate	mg/L	Lab Analysis		0						
	Chloride	mg/L	Lab Analysis		0						
	Magnesium	mg/L	Lab Analysis		0						
	Potassium	mg/L	Lab Analysis		0						
	Sodium	mg/L	Lab Analysis		0						
	Sulphate	mg/L	Lab Analysis		0						
37 (P84)	Conductivity	µs/cm	In situ	Monthly	1	14/12/2023	16/01/2024	NA	NA	NA	18270
	pH	pH	In situ		1	14/12/2023	16/01/2024	NA	NA	NA	6.94
	SWL	mbtoc	In situ		1	14/12/2023	16/01/2024	NA	NA	NA	13.62
	Bicarbonate	mg/L	Lab Analysis		1	14/12/2023	16/01/2024	NA	NA	NA	2620
	Calcium	mg/L	Lab Analysis		1	14/12/2023	16/01/2024	NA	NA	NA	92
	Carbonate	mg/L	Lab Analysis		1	14/12/2023	16/01/2024	NA	NA	NA	<1
	Chloride	mg/L	Lab Analysis		1	14/12/2023	16/01/2024	NA	NA	NA	5580
	Magnesium	mg/L	Lab Analysis		1	14/12/2023	16/01/2024	NA	NA	NA	409
	Potassium	mg/L	Lab Analysis		1	14/12/2023	16/01/2024	NA	NA	NA	36
	Sodium	mg/L	Lab Analysis		1	14/12/2023	16/01/2024	NA	NA	NA	4730
	Sulphate	mg/L	Lab Analysis		1	14/12/2023	16/01/2024	NA	NA	NA	1090
	38 (P85)	Conductivity	µs/cm		In situ	Monthly	0	<i>Bore was dry during sampling period</i>			
pH		pH	In situ	0							
SWL		mbtoc	In situ	0							

	Bicarbonate	mg/L	Lab Analysis		0	
	Calcium	mg/L	Lab Analysis		0	
	Carbonate	mg/L	Lab Analysis		0	
	Chloride	mg/L	Lab Analysis		0	
	Magnesium	mg/L	Lab Analysis		0	
	Potassium	mg/L	Lab Analysis		0	
	Sodium	mg/L	Lab Analysis		0	
	Sulfate	mg/L	Lab Analysis		0	
39 (P88)	Conductivity	µs/cm	In situ	Monthly	0	<i>Bore was dry during sampling period</i>
	pH	pH	In situ		0	
	SWL	mbtoc	In situ		0	
	Bicarbonate	mg/L	Lab Analysis		0	
	Calcium	mg/L	Lab Analysis		0	
	Carbonate	mg/L	Lab Analysis		0	
	Chloride	mg/L	Lab Analysis		0	
	Magnesium	mg/L	Lab Analysis		0	
	Potassium	mg/L	Lab Analysis		0	
	Sodium	mg/L	Lab Analysis		0	
	Sulfate	mg/L	Lab Analysis		0	

40 (P89)	Conductivity	µs/cm	In situ	Monthly	0	<i>Bore was dry during sampling period</i>
	pH	pH	In situ		0	
	SWL	mbtoc	In situ		0	
	Bicarbonate	mg/L	Lab Analysis		0	
	Calcium	mg/L	Lab Analysis		0	
	Carbonate	mg/L	Lab Analysis		0	
	Chloride	mg/L	Lab Analysis		0	
	Magnesium	mg/L	Lab Analysis		0	
	Potassium	mg/L	Lab Analysis		0	
	Sodium	mg/L	Lab Analysis		0	
	Sulphate	mg/L	Lab Analysis		0	

Table 2 - Pollutant Limits Apply (Water)

EPL ID	Pollutant	Units of Measure	Sample Method	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 (Mine Site Sample ID)
11	TSS	mg/L	Lab Analysis	Upon discharge	0	<i>No discharge occurred during sampling period</i>					50	NA	SD4
	Oil & Grease	mg/L	Lab Analysis		0						10	NA	
	pH	pH	In situ		0						6.5-8.5	NA	
13	TSS	mg/L	Lab Analysis	Upon discharge	0	<i>No discharge occurred during sampling period</i>					50	NA	SD2
	Oil & Grease	mg/L	Lab Analysis		0						10	NA	
	pH	pH	In situ		0						6.5-8.5	NA	
18	TSS	mg/L	Lab Analysis	Upon discharge	0	<i>No discharge occurred during sampling period</i>					50	NA	SD7
	Oil & Grease	mg/L	Lab Analysis		0						10	NA	
	pH	pH	In situ		0						6.5-8.5	NA	
24	TDS	mg/L	Lab Analysis	Upon discharge	0	<i>Namoi discharge point – Not constructed or currently utilised.</i>					350	NA	NR1
	pH	pH	In situ		0						6.5-8.5	NA	
27	TSS	mg/L	Lab Analysis	Upon discharge	0	<i>No discharge occurred during sampling period</i>					50	NA	SD8
	Oil & Grease	mg/L	Lab Analysis		0						10	NA	
	pH	pH	In situ		0						6.5-8.5	NA	

Table 3 – Quarterly Attended Noise Monitoring results summary table

EPL ID	Date	Measured Levels – dB(A)	Limit(s)	Measurement Periods	Weather Compliant Conditions (D/E/N)			Compliant (Yes/No)	Date Obtained			
		Leq 15min Day	Leq 15min Evening	Leq 15min Night	LA1 (1 min) Night							
N5 ¹	13/11/2023 ³	N/M	I/A	I/A	I/A	<u>Day, Evening & Night:</u> 35 <u>Night</u> <u>LA1 (1 min):</u> 45	Day – 1.5 hrs	Y ⁴	Y ⁴	Y ⁴	Y	12/12/2023
	14/11/2023 ³	I/A	N/M	<25	27		Evening – 0.5 hrs	Y	Y	Y	Y	
	15/11/2023 ³	35	25	N/M	N/M		Night – 1 hr	Y	Y	Y	Y	
N6	13/11/2023	N/M	26	<25	25	<u>Day, Evening & Night:</u> 35 <u>Night</u> <u>LA1 (1 min):</u> 45	Day – 1.5 hrs	Y ⁴	Y ⁴	N ⁴	Y	
	14/11/2023	27	27	27	32		Evening – 0.5 hrs	Y ⁴	Y	Y	Y	
	15/11/2023	32	25	N/M	N/M		Night – 1 hr	Y	Y	Y	Y	
N8 ¹	13/11/2023 ³	30	I/A	I/A	I/A	<u>Day, Evening & Night:</u> 35 <u>Night</u> <u>LA1 (1 min):</u> 45	Day – 1.5 hrs	Y ⁴	N ⁴	Y ⁴	Y	
	14/11/2023 ³	33	31	31	39		Evening – 0.5 hrs	Y	Y	Y	Y	
	15/11/2023 ³	34	N/M	25	27		Night – 1 hr	Y	Y	Y	Y	
N9 ¹	13/11/2023	I/A	32	I/A	I/A	<u>Day, Evening & Night:</u> 35 <u>Night</u> <u>LA1 (1 min):</u> 45	Day – 1.5 hrs	Y ⁴	Y ⁴	N ⁴	Y	
	14/11/2023	I/A	I/A	32	38		Evening – 0.5 hrs	Y ⁴	Y	N	Y	
	15/11/2023	30	N/M	30	35		Night – 1 hr	Y	Y	Y	Y	

I/A = Inaudible, N/M = Not Measurable

Note 1: Property is owned by Narrabri Coal Operations. Noise limits contained in Conditions 1-3, Schedule 4 of PA 08_0144 Mod 2 and the identical limits contained in condition L3 of Environment Protection Licence No 12789 are not applicable.

Note 2: The Noise Criteria for EPL Monitoring Locations N5 (Oakleigh) and N8 (Haylin View) does not apply as these properties are owned by Narrabri Coal and are therefore not privately owned residences

Note 3: Evening and Night monitoring conducted on this date, Day monitoring conducted during the following day period.

Note 4: Due to technical issues at inversion monitoring location W2, weather information at this location was not recorded during this time. Field observations were indicative of noise enhancing conditions likely to be present during this period.

Figure 1 – EPL 12789 Monitoring Locations

